



AGENDA

May 6, 2020

AMENDED
CITY COUNCIL MEETING
HOUSING AUTHORITY MEETING
6:00 p.m.
Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us

Councilmembers may teleconference pursuant to Executive Order N-29-20. Members of the public may view the meeting on Comcast channel 14, Consolidated Communications channel 73 and AT&T U-verse. City Council meetings are also video streamed live and are available on the City's website and YouTube channel. Members of the public may offer public comment by the following means:

Dial in Phone Number: 916-774-5353
Email: citycouncil@roseville.ca.us

If you need a disability-related modification or accommodation to participate in this meeting, please contact Voice: 916-774-5200, TDD: 916-774-5220. Requests must be made as early as possible.

THE CITY OF ROSEVILLE WELCOMES YOUR PARTICIPATION

If an agenda item is open to public comment, such public comment shall be addressed to the chair of the meeting.

Public Comment - Speakers have three minutes under Public Comment to speak on issues that are not listed on the agenda and are within the City's jurisdiction. The Brown Act does not permit any action or discussion on items not listed on the agenda.

Consent Calendar - If applicable, the Consent Calendar consists of routine items that may be approved by one motion. Any person can remove an item from the Consent Calendar to be discussed separately.

Agenda Items - Speakers have five minutes to address items that are listed on the agenda.

Americans with Disabilities Act - Notify the City Clerk or Secretary at least 72 hours in advance if special assistance is required to participate in a meeting including the need of auxiliary aids or services.

Audio/Visual Presentations - If making a presentation regarding an agenda item, audio/visual materials must be submitted to the City Clerk or Secretary at least 72 hours in advance.

Security procedures are in place to attend Roseville City Council meetings. All attendees must successfully pass through a security metal detector. Any person with a prohibited item will not be allowed entry. Prohibited items include, but are not limited to: firearms (even with valid CCW), knives, pepper spray/mace, explosives of any kind/ any weapons and/or dangerous devices of any kind, illegal drugs and alcohol.

Roseville City Clerk 311 Vernon Street, Roseville, CA 916-774-5200 TDD 916-774-5220

1. **CALL TO ORDER**
2. **ROLL CALL**
3. **PLEDGE OF ALLEGIANCE**
4. **MEETING PROCEDURES**
5. **PUBLIC COMMENTS**

5.1. City Response to COVID-19 Pandemic

CONTACT: Dominick Casey 916-774-5362 dcasey@roseville.ca.us

6. **CONSENT CALENDAR**

BEGINNING OF CONSENT CALENDAR

Bids / Purchases / Services

6.1. Vehicle and Equipment Purchases, Budget Adjustment, and Out-of-State Travel Request

Memo from Fleet Manager Brian Craighead and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-118 APPROVING A PURCHASE ORDER, BY AND BETWEEN THE CITY OF ROSEVILLE AND DOBBS HEAVY DUTY HOLDINGS, LLC DBA WESTERN TRUCK CENTER, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 20-119 APPROVING A PURCHASE ORDER, BY AND BETWEEN THE CITY OF ROSEVILLE AND DOBBS HEAVY DUTY HOLDINGS, LLC DBA WESTERN TRUCK CENTER, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6213 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff requests approval of a purchase order to Dobbs Heavy Duty Holdings LLC dba Western Truck Center for four

Autocar diesel trucks with Bridgeport side loading bodies utilizing RFQ 10-3255 in the amount of \$1,300,217; approval of a purchase order to Dobbs Heavy Duty Holdings LLC dba Western Truck Center for one Autocar Compressed Natural Gas truck with a Bridgeport side loading body utilizing RFQ 10-3257 in the amount of \$365,600; approval of a purchase order to Pacific Material Handling Solutions, Inc. for one Hyundai 80D-9 forklift utilizing RFQ 10-3259 in the amount of \$96,663; approval of a purchase order to Crafcro, Inc. for one trailer mounted sealant melter utilizing Sourcewell contract# 052417-CFC in the amount of \$56,979; and adoption of an ordinance amending the FY2019-20 Auto Replacement budget by \$57,640 from the Auto Replacement Fund for the purchase of the trailer mounted sealant melter. Funding for the remaining vehicles is already included in the FY2019-20 Auto Replacement budget. Staff also requests Council approval for out-of-state travel for Fleet Services and Waste Services staff members to attend a final factory inspection for the Autocar trucks with side loading bodies being built by Bridgeport in Breckenridge, Texas. The estimated schedule for the final inspections is January 2021. Costs related to travel including air fare, lodging and meals are covered by Bridgeport Manufacturing as part of the original purchase price.

CC #: 0723

File #: 0203-01 & 0201-01 & 0600-02

CONTACT: Brian Craighead 916-774-5731 bcraighead@roseville.ca.us

6.2. Aquifer Storage and Recovery – Monitoring Wells Project – Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Senior Engineer Jason Marks and Environmental Utilities Director Richard Plecker recommending the City Council approve the plans and specifications and authorize staff to advertise for bids for the Aquifer Storage and Recovery - Monitoring Wells project to drill up to eight (8) groundwater monitoring wells. The cost of construction is estimated at \$1,200,000. Funding is provided by the Water Construction fund.

CC #: 0714

File #: 0900-02

CONTACT: Jason T. Marks 916-342-9573 jtmmarks@roseville.ca.us

6.3. Utility Tree Trimming Services – Contract Purchase Agreement

Memo from Electric Operations Supervisor Jeff Beaubier and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-165 APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND WEST COAST ARBORISTS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000262). This item requests Council approve a contract purchase agreement with West Coast Arborists, Inc. to perform utility tree trimming services for three years, with an option to renew for two additional one-year periods. The cost of the initial agreement will not exceed \$4,299,750 over the three-year period, with up to an additional \$3,142,125 total for the two optional one-year renewals. Funding for the first year of the agreement is \$1,378,125 and will be included in the proposed Electric Department FY2020-21 budget. All future year funding

shall be contingent upon budget approval each year.

CC #: 0751

File #: 0800-03

CONTACT: Jeff Beaubier 916-774-5611 jbeaubier@roseville.ca.us

6.4. Compressed Natural Gas Fueling Station Upgrade Phase 1 – Contract Purchase Agreement and Budget Adjustment

Memo from Senior Engineer Janice Gainey and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. NO. 20-129 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND EFS WEST, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000274); and adopt ORDINANCE NO. 6215 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff recommends Council approve a contract purchase agreement with EFS West in the amount of \$225,665 for the Compressed Natural Gas Fueling Station Upgrade project - Phase 1, and approve a budget adjustment transferring \$288,232 from the Waste Services Annual Rehabilitation budget in the Waste Services Rehabilitation Fund to a new capital improvement project in the same fund.

CC #: 0740

File #: 0900-03 & 0201-01

CONTACT: Janice R. Gainey 916-774-5535 jrgainey@roseville.ca.us

6.5. VHF Communication Maintenance - Sole Source Contract Purchase Agreement

Memo from Fire Chief Rick Barte and Assistant Fire Chief Brian Diemer recommending the City Council adopt RESOLUTION NO. 20-120 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND SILKE COMMUNICATIONS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000225). Staff recommends approval of a sole source contract purchase agreement with Silke Communications ending June 30, 2020, for the total cost of services in the amount of \$100,000 during FY2019-20. The total costs are related to repairs, modifications, integration and specialized equipment required for the maintenance of the VHF enterprise-wide interoperable radio system. The \$100,000 contract purchase agreement will be funded by \$50,600 in the existing Fire Department operating budget, with additional funding coming from the General Fund Contingency budget.

CC #: 0724

File #: 0203-05

CONTACT: Greg James 916-774-5806 gjames@roseville.ca.us

6.6. Personal Protective Equipment - Purchase Order

Memo from Fire Chief Rick Bartee and Assistant Fire Chief Brian Diemer recommending the City Council approve the purchase of personal protective equipment from Lion Corporation, through the use of the Master Price Agreement as a qualified government member (M-5690891) of National Purchasing Partners under Oregon Chapter 190 (Contract #PS16008). The total purchase for FY2019-20 will not exceed \$75,000 which is included as part of the Fire Department's approved annual budget.

CC #: 0735

File #: 0203-12

CONTACT: Brian Diemer 916-746-1392 bdiemer@roseville.ca.us

6.7. Power Plant Control System Hardware - Purchase Order

Memo from Senior Power Plant Engineer Nathan Ribordy and Electric Utility Director Michelle Bertolino recommending the City Council approve a purchase order with Emerson Process Management for the procurement of control system hardware for use at the Roseville Energy Park. This sole source procurement shall not exceed \$270,000. Funding is included in the Electric Department's FY2019-20 budget.

CC #: 0721

File #: 0203-07

CONTACT: Nathan Ribordy 916-746-1673 nribordy@roseville.ca.us

6.8. Utility Tree Trimming – Service Agreement Amendment

Memo from Electric Operations Supervisor Jeff Beaubier and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-127 APPROVING AMENDMENT NO. 1 TO SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND UTILITY TREE SERVICE, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S2003015). Staff recommends approval of Amendment No. 1 to Service Agreement S2003015 with Utility Tree Service, LLC to continue providing high voltage line tree trimming services on an as-needed basis. This amendment increases agreement funding by \$170,000 bringing the total annual amount from \$546,976.34 to \$716,976.34. The increase in cost is due to a new state law that increased wages for tree trimmers. Funding is available in the FY2019-20 Electric Department budget.

CC #: 0738

File #: 0203-07

CONTACT: Jeff Beaubier 916-774-5611 jbeaubier@roseville.ca.us

6.9. Industrial and Fiddymont Substation Civil Construction - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Senior Power Engineer Chris Porter and Electric Utility Director Michelle Bertolino recommending the City Council approve the plans and specifications of the Industrial and Fiddymont Substation Civil Construction project and authorize staff to call for bids. The construction work at Industrial Substation is required for the replacement of the existing switchgear that has

reached its end of life. Replacement of this equipment is necessary to maintain system reliability. The construction work at Fiddymment Substation is necessary to support the installation of a new 230/60kV transformer. The cost of the project is estimated at \$400,000. Funds are available in the Electric Department FY2019-20 budget.

CC #: 0734

File #: 0900-03

CONTACT: Chris Porter 916-774-5615 cporter@roseville.ca.us

6.10.Citywide Phone System Support - Contract Purchase Agreement

Memo from Acting Program Manager Karl Grover and Chief Information Officer Hong Sae recommending the City Council adopt RESOLUTION NO. 20-116 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND ALTURA COMMUNICATION SOLUTIONS, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000263). This item requests approval of a contract purchase agreement with Altura Communication Solutions, LLC for the citywide phone system. The support renewal cost of \$97,186.68 is accounted for in the FY2019-20 Information Technology's Internal Service Fund budget.

CC #: 0715

File #: 0203-05

CONTACT: Karl Grover 916-774-5145 kgrover@roseville.ca.us

6.11.Nimble Storage Support - Purchase Order

Memo from Acting Program Manager Karl Grover and Chief Information Officer Hong Sae recommending the City Council renew support for Nimble Storage which is the City's primary method of storing digital files onsite for all departments. This contract will provide support through August 2024. The support renewal cost of \$55,973 is accounted for in the Information Technology's FY2019-20 Internal Service Fund budget.

CC #: 0720

File #: 0203-06

CONTACT: Karl Grover 916-774-5145 kgrover@roseville.ca.us

6.12.Cisco Smartnet Network Support - Purchase Order

Memo from Acting IT Program Manager Karl Grover and Chief Information Officer Hong Sae recommending the City Council approve a purchase order to ConvergeOne for the Citywide Cisco Smartnet network product support. The support renewal costs \$35,117.10 and is accounted for in the FY2019-20 Information Technology's Internal Service Fund budget.

CC #: 0725

File #: 0203-06

CONTACT: Karl Grover 916-774-5145 kgrover@roseville.ca.us

6.13. Taser Equipment - Sole Source Purchase Order

Memo from Administrative Analyst Shelly Bracco and Police Chief James Maccoun recommending the City Council authorize the issuance of a sole source purchase order to ProForce for the purchase of replacement taser equipment for a total amount not to exceed \$130,000. A budget adjustment was approved by Council on January 15, 2020, which appropriated \$100,000 in the Citizen's Option for Public Safety Fund for taser equipment replacement. The additional \$30,000 was approved in the Police Department's FY2019-20 budget. There will be no net impact to the General Fund.

CC #: 0719

File #: 0203-12

CONTACT: Shelly Bracco 916-774-5018 sbracco@roseville.ca.us

6.14. Pool System Repair Parts and Service - Service Agreement Amendment

Memo from Parks, Recreation and Libraries Superintendent Brian Castelluccio and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 20-126 APPROVING AMENDMENT NO. 1 TO SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND KNORR SYSTEMS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S2003051).

The requested amendment increases spending authority to \$40,000 to provide repair service and replacement parts for the City's pool and splash pad systems. The current annual cost of the contract is not to exceed \$23,338. Funding is approved in the Parks, Recreation & Libraries Department's FY2019-20 General Fund budget.

CC #: 0736

File #: 0203-10

CONTACT: Brian Castelluccio 916-223-4310 bcastelluccio@roseville.ca.us

Resolutions

6.15. On-Call Qualified Stormwater Pollution Prevention Plan Developer and Practitioner Services - Professional Services Agreement Amendment

Memo from Park Development Analyst Rjahja Canlas and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 20-135 APPROVING A SECOND AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT, BETWEEN THE CITY OF ROSEVILLE AND HYDROCOMPLIANCE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. HydroCompliance provides on-call qualified stormwater pollution prevention plan (SWPPP) developer and qualified SWPPP practitioner services for the Parks, Recreation & Libraries Department. The second amendment will extend the agreement for the second and final one-year renewal and increase the service agreement annual authorization by \$10,000, bringing the total annual amount to \$60,000 and the contract total to \$160,000 for the three-year contract period. Work performed under this service agreement will utilize capital improvement project budgets.

CC #: 0745

File #: 0704

CONTACT: Rjahja Canlas 916-774-5342 rcanlas@roseville.ca.us

6.16. Richard and Pauline Roccucci Park Project - Notice of Completion

Memo from Park Development Analyst Rjahja Canlas and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 20-117 ACCEPTING THE PUBLIC WORK KNOWN AS THE RICHARD AND PAULINE ROCCUCCI PARK PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PARKS, RECREATION & LIBRARIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. The Parks, Recreation & Libraries Department has made a final inspection of the Richard and Pauline Roccucci Park Project (formerly parksite W-51) and has found that all contract work has been completed in accordance with the improvement plans and specifications. The project is now ready for acceptance. This 4.7-acre park site is located on Symphony Avenue at Chorus Avenue in the West Roseville Specific Plan. The project included a children's play area, shaded picnic area, adult fitness equipment, multi-use turf, perimeter walkway that connects to the existing bike trail, basketball half court, two pickleball courts, a zip line swing, landscaping and irrigation. In accordance with City specifications, the contractor shall guarantee the installation of these improvements for a period of twelve (12) months from the date of this Notice of Completion. The project was funded with monies from the West Roseville Citywide Park Fund. Funding for maintenance will be through the Westpark Community Facilities District No. 2 (Public Services). There is no impact to the General Fund.

CC #: 0722

File #: 0704-01

CONTACT: Rjahja Canlas 916-774-5342 rcanlas@roseville.ca.us

6.17. City of Roseville Financial Policies for Fiscal Year 2020-21

Memo from Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-121 ADOPTING THE CITY OF ROSEVILLE FINANCIAL POLICIES, EFFECTIVE JULY 1, 2020. The financial policies recommended for adoption include the Investment Policy, the Debt Management Policy, the Budget Development Policy, the General Fund Reserves Policy, the Capital Improvement Program Rehabilitation Funding Policy, the Pension Funding Policy, the Other Post-Employment Benefits Funding Policy, the Workers' Compensation and General Liability Funding Policy, the Interfund Loans Policy, and the Requests for Proposals Policy. Approval of the policies has no fiscal impact.

CC #: 0726

File #: 0200

CONTACT: Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

6.18. 2020/2021 Landscaping and Lighting District Assessments – Initiate

~~Proceedings. Intent to Levy Approval of Engineer's Reports~~

~~Memo from Administrative Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-141 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 20-142 A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt 20-143 A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/202; and adopt RESOLUTION NO. 20-144 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 20-145 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-146 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-147 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ENGINEER'S LEVY OF ASSESSMENTS FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 20-148 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-149 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ANNUAL LEVY REPORT FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-150 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ENGINEER'S LEVY OF ASSESSMENTS FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021, PURSUANT TO THE~~

PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 20-151 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-152 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-153 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 20-154 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-155 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S LEVY REPORT FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-156 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 20-157 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-158 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-159 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 20-160 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-161 OF THE CITY COUNCIL OF THE

CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-162 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 20-163 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021; and adopt RESOLUTION NO. 20-164 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021. The City currently has eight active Landscaping and Lighting Districts (LLDs). These districts were formed within the City to levy and collect assessments for maintenance of public improvements pursuant to the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code (the Act), and Article XIID of the California Constitution. All charges are needed to fully fund landscape services in each LLD. There is no impact to the General Fund.
CC #: 0750

File #: 0206-08-01

CONTACT: Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us
Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

6.19. Utility Billing System - Software License Agreement Amendment

Memo from Billing Services Manager Andrea Blomquist and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-139 APPROVING A FIRST AMENDMENT TO SOFTWARE LICENSE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND N. HARRIS CORPORATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The City currently contracts with N. Harris Computer Corporation for Cayenta, a customer information system used for utility billing. As part of the City's standard operating procedures, Utility Billing staff are executing additional system tools from Cayenta to enhance customer service to both internal and external customers. The annual licensing fees for these tools equal \$9,250. This cost is included in the approved FY2019-20 Finance/Utility Billing operating budgets.

CC #: 0747

File #: 0200

CONTACT: Andrea Blomquist 916-774-5317 ablomquist@roseville.ca.us

6.20. Main Gas Supplier Agreement - Transaction Confirmation

Memo from Electric Risk and Compliance Officer Petra Wallace and Electric

Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-130 AUTHORIZING THE CITY MANAGER TO EXECUTE A TRANSACTION CONFIRMATION WITH SHELL ENERGY NORTH AMERICA (US), L.P., ON BEHALF OF THE CITY OF ROSEVILLE. This item is a 5-year Main Gas Supplier Agreement with Shell Energy North America L.P. The agreement sets out the terms and conditions for Shell to provide natural gas balancing services for the electric utility's power plant operations. Transactions under this agreement will be executed pursuant to Roseville's Energy Trading Authority Policy. The fees associated with the services are estimated at \$30,000 per year and are included in the annual budget for the Electric Department.

CC #: 0742

File #: 0800-03

CONTACT: Petra Wallace 916-774-5510 pwallace@roseville.ca.us

6.21. Clean Fuel Reward Program - Electric Distribution Utility Joinder to the Clean Fuel Reward Governance Agreement

Memo from Energy Services Account Representative Rachel Radell-Harris and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-128 APPROVING AN ELECTRIC DISTRIBUTION UTILITY JOINDER TO THE CLEAN FUEL REWARD GOVERNANCE AGREEMENT, BY AND BETWEEN PACIFIC GAS & ELECTRIC, SAN DIEGO GAS & ELECTRIC COMPANY, SOUTHERN CALIFORNIA EDISON COMPANY, LOS ANGELES DEPARTMENT OF WATER & POWER AND SACRAMENTO MUNICIPAL UTILITY DISTRICT AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends Council approve the Electric Distribution Utility Joinder to the Clean Fuel Reward Governance Agreement. This agreement allows Roseville Electric Utility to continue to participate in the California Air Resources Board Low Carbon Fuel Standard (LCFS) program and generate proceeds to support electric vehicle programs in the community. The utility's initial cost is \$136,614 and is due by January 31, 2021. Following the initial cost, the utility will annually transfer 20% of certain LCFS proceeds to the Clean Fuel Reward program through 2022, and 25% beginning in 2023. Funding for this agreement is available from the LCFS program proceeds and will be included in the utility's proposed FY2020-21 budget.

CC #: 0739

File #: 0800-03

CONTACT: Rachel Radell-Harris 916-774-5627 raradell-harris@roseville.ca.us

6.22. Water Capacity Partnership Exploration - Memorandum of Understanding

Memo from Assistant Environmental Utilities Director Sean Bigley and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-131 APPROVING A MEMORANDUM OF UNDERSTANDING FOR EXPLORATION INTO A WATER CAPACITY PARTNERSHIP, BY AND BETWEEN THE CITY OF ROSEVILLE AND

THE PLACER COUNTY WATER AGENCY, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of a Memorandum of Understanding (MOU) with the Placer County Water Agency (PCWA) for exploration of shared water conveyance infrastructure alternatives for additional water supply reliability. Under the proposed MOU, PCWA and the City would share in costs of up to \$100,000 (\$50,000 for the City, \$50,000 for PCWA) to explore potential shared water conveyance infrastructure alternatives. The City's \$50,000 is budgeted in the FY2019-20 Water Administration budget, funded within the Water Operations fund, which receives revenue through water utility service sales.

CC #: 0743

File #: 0800-02

CONTACT: Sean Bigley 916-774-5513 sbigley@roseville.ca.us

6.23. On-Call Resident Engineering and Inspection Services - Professional Services Agreements Amendments

Memo from Assistant Engineer Beth Taylor and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-136 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND HANNA ENGINEERING, INC. DBA THE HANNA GROUP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 20-137 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND HDR CONSTRUCTION CONTROL CORPORATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 20-138 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND PSOMAS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends approval of the requested agreement amendments as well as the remaining one-year extension without further Council approval. The amendments extend the contracts one year and increase the contract compensation not-to-exceed amount for each amendment by \$1,000,000. These contracts will be funded through various approved Capital Improvement Program project budgets. No General Fund resources will be used. These contract services allow City staff to complete more projects without hiring additional permanent City employees.

CC #: 0746

File #: 0800-04

CONTACT: Beth Taylor 916-746-1300 bftaylor@roseville.ca.us

6.24. On-Call Material Testing Services - Professional Services Agreements Amendments

Memo from Assistant Engineer Beth Taylor and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-

132 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND BLACKBURN CONSULTING, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 20-133 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND HOLDREGE & KULL, CONSULTING ENGINEERS AND GEOLOGISTS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 20-134 APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND TWINING, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends Council approval to execute these amendments, as well as the remaining one-year extension at a later date without Council approval. The amendment extends the contract by one year and increases the contract compensation not-to-exceed fee for each amendment by \$300,000. These contracts will be funded through various Capital Improvement Project budgets. No General Fund resources will be used. These contract services allow existing City staff to complete more projects without hiring additional permanent City employees.

CC #: 0744

File #: 0800-02

CONTACT: Beth Taylor 916-746-1300 bftaylor@roseville.ca.us

6.25. Resolution Declaring Weeds and Rubbish a Public Nuisance - Setting a Public Hearing Date

Memo from Fire Division Chief Jason Rizzi and Fire Chief Rick Barteo recommending the City Council adopt RESOLUTION NO. 20-125 OF THE COUNCIL OF THE CITY OF ROSEVILLE DECLARING ALL WEEDS, DIRT, RUBBISH OR RANK GROWTHS WITHIN THE CITY OF ROSEVILLE TO BE A PUBLIC NUISANCE; ORDERING THE FIRE CHIEF TO GIVE NOTICE OF THE PASSAGE OF THIS RESOLUTION; AND SETTING A TIME AND PLACE FOR HEARING ANY OBJECTIONS TO THE PROPOSED DESTRUCTION OR REMOVAL OF SUCH WEEDS, DIRT, RUBBISH, OR RANK GROWTHS. To initiate the 2020 Weed Abatement Program, staff recommends approval of a resolution declaring weeds, rubbish, dirt, and/or rank growth within the City to be a public nuisance, as well as ordering the Fire Chief to give notice of the passage and setting a time and place for the required public hearing. The public hearing will be scheduled for the City Council meeting on Wednesday, June 3, 2020.

CC #: 0731

File #: 0320-01

CONTACT: Jason Rizzi 916-774-5802 jrizz@roseville.ca.us

6.26. Diamond Creek North Roseville Specific Plan DC 30 & 33 Improvement Plan - Notice of Completion

Memo from Construction Inspector Darin Crockett and Development Services

Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-122 ACCEPTING THE PUBLIC WORK KNOWN AS Diamond Creek North Roseville Specific Plan DC 30 & 33 PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 0727

File #: 0400-04-07-1

CONTACT: Darin Crockett 916-746-1324 dcrockett@roseville.ca.us

6.27. Dry Creek Wastewater Treatment Plant Cogeneration and Nitrate Reduction Improvements Project - Notice of Completion

Memo from Process Engineer Todd Jordan and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-124 ACCEPTING THE PUBLIC WORK KNOWN AS THE DRY CREEK WASTEWATER TREATMENT PLANT COGENERATION AND NITRATE REDUCTION IMPROVEMENTS PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. This items requests that Council accept the Dry Creek Wastewater Treatment Plant Cogeneration and Nitrate Reduction Improvements project as complete and authorize the Environmental Utilities Director to execute the Notice of Completion. The original contract amount was \$18,420,300. The total change order amount was \$645,603. The total contract amount of \$19,065,903 was paid from the Dry Creek Wastewater Treatment Plant cogeneration and Nitrate Reduction Improvements project budget.

CC #: 0729

File #: 0900-02-02-1

CONTACT: Todd Jordan 916-746-1829 tjordan@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

6.28. Downtown Water Mains Replacement Project – Hillcrest Neighborhood - Professional Design Services Agreement and Budget Adjustment

Memo from Senior Engineer Janice Gainey and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-123 APPROVING A PROFESSIONAL DESIGN SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND DOMENICHELLI & ASSOCIATES, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6214 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL

YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests approval and award of a professional design services agreement with Domenichelli & Associates, Inc. (D&A) to provide design and engineering services during construction for the Downtown Water Mains Replacement project in the Hillcrest Neighborhood. The total contract value of the agreement with D&A is not to exceed \$377,084. Staff also recommends approval of a budget adjustment to transfer funding within the Water Rehabilitation Fund from an operating budget to a newly established capital improvement project with no net impact to the fund's available resources.

CC #: 0728

File #: 0900-02 & 0201-01

CONTACT: Janice R. Gainey 916-774-5535 jrgainey@roseville.ca.us

6.29. West Side Tanks and Pump Station Project - Design-Assist Construction Agreement and Budget Adjustment

Memo from Senior Engineer Janice Gainey and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-140 APPROVING AN AGREEMENT FOR THE DESIGN-ASSIST AND CONSTRUCTION OF THE WEST SIDE TANKS AND PUMP STATION PROJECT, BY AND BETWEEN AUBURN CONSTRUCTORS, LLC AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6219 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests approval of a design-assist and construction agreement with Auburn Constructors, LLC for the West Side Tanks and Pump Station project in the amount of \$23,481,300, authorization for the Environmental Utilities Director or his designee to approve and pay for contract change orders for the project that could increase the contract amount by no more than 10% or \$2,348,130, and approval of a budget adjustment of \$4,284,886 from available resources in the Water Construction Fund to fully fund this contract, its contingency, and related project staff time.

CC #: 0748

File #: 0900-02

CONTACT: Janice R. Gainey 916-774-5535 jrgainey@roseville.ca.us

6.30. Homeland Security Grant - Budget Adjustment

Memo from Administrative Analyst Shelly Bracco and Police Chief James Maccoun recommending the City Council adopt ORDINANCE NO. 6212 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Police Department has been awarded \$8,600 from the FY19 Homeland Security Grant Program via the Placer County Office of Emergency Services division. The recommended

budget adjustment will cover the purchase of gas masks and filters. The City will be reimbursed by Placer County Office of Emergency Services upon completion of the purchase. There will be no net impact on the General Fund.

CC #: 0717

File #: 0201-01

CONTACT: Shelly Bracco 916-774-5018 sbracco@roseville.ca.us

6.31. Urgency Ordinance To Extend Certain Land Use Entitlements

Memo from Senior Planner Derek Ogden and Development Services Director Mike Isom recommending the City Council adopt ORDINANCE NO. 6220 OF THE COUNCIL OF THE CITY OF ROSEVILLE GRANTING A ONE YEAR EXTENSION TO CERTAIN LAND USE ENTITLEMENTS AND DECLARING THIS ORDINANCE TO BE EFFECTIVE MAY 6, 2020 AS AN URGENCY ORDINANCE. Staff is recommending that the City Council approve an ordinance to extend all approved but unexpired Zoning Ordinance-related entitlements and Buildings and Construction Ordinance-related grading plans for one additional year. An economic benefit is likely to occur by extending the time development projects have to construct; however, the fiscal impact cannot be quantified.

CC #: 0749

File #: 0800-06

CONTACT: Derek Ogden 916-746-1347 dogden@roseville.ca.us

6.32. Implementation of Recommended Staffing Changes

Memo from Human Resources Manager Linda Hampton and Human Resources Director Stacey Peterson recommending the City Council adopt ORDINANCE NO. 6216 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6192, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX "J" TO BE EFFECTIVE MAY 9, 2020, AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 6217 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6182, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED BY THE INTERNATIONAL UNION OF OPERATING ENGINEERS, STATIONARY ENGINEERS, LOCAL 39, AS AMENDED BY APPENDIX "F" TO BE EFFECTIVE MAY 9, 2020, AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 6218 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6181, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED BY ROSEVILLE FIREFIGHTERS, LOCAL 1592, AS AMENDED BY APPENDIX "E", TO BE EFFECTIVE MAY 9, 2020 AS AN URGENCY MEASURE. Staff is recommending Council approve the citywide position allocation schedule reflecting the reclassification of four positions. Staff is also requesting the addition of Police Social Services Practitioner and Senior Utility Billing Analyst and the deletion of Police Social Services Administrator on the Management salary schedules. Also, staff recommends deletion of the Fire Inspector I/II safety classification from the Roseville Firefighters' salary schedules. In addition, staff is requesting to add Organics Truck Driver to the Local 39 salary

schedules. The total impact for FY2019-20 General Fund is a savings of \$14,513. The impact of \$13,616 to the utility funds and the Facility Services Fund was already included in the FY2019-20 budget or will be covered by salary savings.

CC #: 0741

File #: 0600-01

CONTACT: Linda Hampton 916-774-5215 lhampton@roseville.ca.us

Ordinances (for second reading and adoption)

6.33. Second Reading - West Roseville Specific Plan F-55 and W-60a - Rezone and Development Agreement

ORDINANCE NO. 6221 OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND WEST ROSEVILLE LLC RELATIVE TO THE WEST ROSEVILLE SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6222 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE 6198 OF THE CITY OF ROSEVILLE CHANGING THE ZONING OF CERTAIN REAL PROPERTY LOCATED WITHIN THE CITY OF ROSEVILLE, for second reading and adoption.

CC #: 0752

File #: 0400-04-09

CONTACT: Shelby Vockel 916-746-1357 svockel@roseville.ca.us

Reports / Requests

6.34. Fiscal Year 2019-20 Second Quarter Report

Memo from Budget Manager Scott Pettingell and Assistant City Manager/Chief Financial Officer Dennis Kauffman with an informational report that includes financial data for the first two quarters of FY2019-20 for the General Fund, the enterprise operating funds, and revenues in selected other funds. This item is a financial update only and has no fiscal impact.

CC #: 0732

File #: 0200

CONTACT: Scott Pettingell 916-746-1306 spettingell@roseville.ca.us

6.35. Minutes of Prior Meetings

Memo from City Clerk Sonia Orozco recommending the City Council approve the minutes of the January 8, 2020 City Council meeting, January 15, 2020 City Council meeting, February 5, 2020 City Council meeting, February 19, 2020 City Council and Roseville Natural Gas Financing Authority meeting, March 4, 2020 City Council meeting, March 4, 2020 Special Closed Session meeting, March 17, 2020 Emergency City Council meeting, March 18, 2020 City Council meeting, Special Closed Session meeting (Cancelled), and the April 1, 2020 City Council meeting.

CC #: 0712

File #: 0102-03

CONTACT: Sonia Orozco 916-774-5269 sorozco@roseville.ca.us

6.36. Community Needs Assessment

Memo from Economic Development Manager Troy Holt and Economic Development Director Laura Matteoli with an informational report on the findings and recommendations of a community needs assessment for the purpose of guiding the use of Citizens' Benefit Fund resources and Roseville Employees Annual Charitable Hearts funds, and a request for direction for the Grants Advisory Commission to develop an implementation strategy.

CC #: 0716

File #: 0110 & 0103-334-02 & 0216-01 & 0216-02

CONTACT: Troy Holt 916-746-1173 tgholt@roseville.ca.us

END OF CONSENT CALENDAR

7. SPECIAL REQUESTS/REPORTS/PRESENTATION

7.1. Financial Update

Assistant City Manager/Chief Financial Officer Dennis Kauffman with a financial update.

CC #: 0730

File #: 0200

CONTACT: Scott Pettingell 916-746-1306 spettingell@roseville.ca.us
Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

7.2. User and Regulatory Fee Update Delay

Memo from Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council delay approval of the updated User and Regulatory Fee booklet, which includes rate changes that would have been effective as of July 1, 2020, until further notice, given the state of the economy due to the COVID-19 pandemic. Assuming normal service and activity levels, the fee changes being delayed would generate approximately \$438,000 per year across all City funds and departments.

CC #: 0737

File #: 0215

CONTACT: Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

8. PUBLIC HEARING

NOTICE TO THE PUBLIC

City Council, when considering the matter scheduled for hearing, will take the following actions:

1. Open the Public Hearing

2. Presentation by Staff
3. Presentation by applicant or Appellant
4. Accept Public Testimony
5. Appellant or Applicant Rebuttal Period
6. Close the Public Hearing
7. City Council Comments and Questions
8. City Council Action

In the future, if you wish to challenge in court any of the matters on this agenda for which a public hearing is to be conducted, you may be limited to raising only those issues, which you, or someone else raised orally at the Public Hearing or in written correspondence received by the City or before the hearing

Public Hearings listed for continuance will be continued as noted and posting of this agenda serves as notice of continuation.

8.1. Housing Authority 5-Year Plan FY2020-21

Memo from Housing Analyst Suzanne Acrell and Economic Development Director Laura Matteoli recommending the City Council adopt HOUSING AUTHORITY OF THE CITY OF ROSEVILLE RESOLUTION NO. 1-20 AUTHORIZING THE EXECUTIVE DIRECTOR TO SUBMIT THE ROSEVILLE HOUSING AUTHORITY 5 YEAR PLAN AND ANNUAL PLAN FOR FISCAL YEAR 2020-21 TO THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT ALONG WITH THE REQUIRED CERTIFICATIONS, DISCLOSURES AND RELATED DOCUMENTS. Roseville Housing Authority must receive City Council's approval of the Housing Authority's 5-Year Plan for FY2020-21 prior to submitting the report to U.S. Department of Housing and Urban Development. The Housing Authority 5-Year Plan will not have any fiscal impact to the General Fund.

CC #: 0718

File #: 0709

CONTACT: Suzanne Acrell 916-774-5469 sacrell@roseville.ca.us

9. COUNCIL REPORTS / PUBLIC COMMENTS

10. ADJOURNMENT



COUNCIL COMMUNICATION

CC #: 0723

File #: 0203-01 & 0201-01 & 0600-02

Title: Vehicle and Equipment Purchases, Budget Adjustment, and Out-of-State Travel Request

Contact: Brian Craighead 916-774-5731 bcraighead@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.1.

RECOMMENDATION TO COUNCIL

RFQ 10-3255

Staff recommends Council approve a purchase order to Dobbs Heavy Duty Holdings LLC dba Western Truck Center for four Autocar diesel trucks with Bridgeport side loading bodies utilizing RFQ 10-3255 to replace Fleet ID 12-453, 12-452, 12-325 and 12-324 approved in the FY2019-20 Auto Replacement budget. The total cost including options and sales tax is \$1,300,217. Additionally, adopt a resolution authorizing the City Manager or his designee to approve change order requests in an amount not to exceed 2% of the contract price.

RFQ 10-3257

Staff recommends Council approve a purchase order to Dobbs Heavy Duty Holdings LLC dba Western Truck Center for one Autocar Compressed Natural Gas (CNG) truck with a Bridgeport side loading body utilizing RFQ 10-3257 to replace Fleet ID 12-481 approved in the FY2019-20 Auto Replacement budget. The total cost including options and sales tax is \$365,600. Additionally, adopt a resolution authorizing the City Manager or his designee to approve change order requests in an amount not to exceed 2% of the contract price.

RFQ 10-3259

Staff recommends Council approve a purchase order to Pacific Material Handling Solutions, Inc for one Hyundai 80D-9 forklift utilizing RFQ 10-3259 to replace Fleet ID 00-646 approved in the FY2019-20 Auto Replacement budget. The total cost including options and sales tax is \$96,663.

Sourcewell

Staff recommends Council approve a purchase order to Crafc0, Inc. for one trailer mounted sealant melter utilizing Sourcewell contract# 052417-CFC to replace Fleet ID 11-625. The total cost including options and sales tax is \$56,979. Additionally, adopt an ordinance to amend the budget by \$57,640 to pay for the Crafc0 trailer mounted sealant melter.

Out-of-State Travel

Staff also requests Council approval for out-of-state travel for a total of three Fleet Services and Waste Services staff members to attend a final factory inspection for the Autocar trucks (RFQ's 10-3255 and 10-3257) with side loading bodies being built by Bridgeport in Breckenridge, Texas.

The estimated schedule for the final inspections is January 2021. Costs related to travel including air fare, lodging and meals are covered by Bridgeport Manufacturing as part of the original purchase price.

BACKGROUND

RFQ 10-3255 and RFQ 10-3257

The Environmental Utilities Waste Services division is purchasing five side loading solid waste collection trucks as replacements for Fleet ID 12-453, 12-452, 12-325, 12-324 and 12-481. These trucks are used to collect residential waste up to 5 days per week. The Waste Services division has been able to utilize these vehicles an additional two years beyond their life expectancy without the cost of repairs overriding the need for replacement.

During the production of solid waste collection trucks, it is common to encounter unanticipated or changed conditions which necessitate additions or other modifications to the project and the contract. Due to the complexity of this build, the Fleet Manager requests authorization for the City Manager or his designee to approve change order requests in an amount not to exceed 2% of the contract price.

Purchasing refuse trucks is a large financial investment and final factory inspections are essential for quality control. Three City representatives total from Fleet Services and Waste Services will attend a final inspection trip which is scheduled at times mutually agreed upon between the manufacturer and City representatives. In this case the final inspection is estimated to occur in January 2021.

RFQ 10-3255

A formal bid was issued with the following vendor response:

<u>Vendor</u>	<u>Unit Price (with options)</u>
Western Truck Center Sacramento, CA	\$1,327,458.48

RFQ 10-3257

A formal bid was issued with the following vendor response:

<u>Vendor</u>	<u>Unit Price (with options)</u>
Western Truck Center Sacramento, CA	\$373,759.97

RFQ 10-3259

The Roseville Electric Construction and Maintenance division is purchasing one Hyundai 80D-9 forklift as a replacement for Fleet ID 00-646. The forklift is used by the Electric Operations Warehouse staff to receive and load all electrical equipment that is used to maintain and expand electrical facilities in the City. The Electric department manages its own warehouse containing thousands of items that require a forklift.

A formal bid was issued with the following vendor responses:

<u>Vendor</u>	<u>Unit Price (with options)</u>
---------------	----------------------------------

Octane Forklift
Denver, CO \$87,689.11

Pacific Material Handling
Sacramento, CA \$96,662.70

Brooks Company
Auburn, CA \$103,171.70

H&E Equipment
Sacramento, CA \$119,794.06

The apparent low bidder Octane Forklift took exception to critical items in the bid and was deemed non responsive.

Sourcewell

The Public Works Streets division is purchasing one CrafcO trailer mounted sealant melter as a replacement for Fleet ID 11-625. This equipment is used by the paving staff to repair cracks in asphalt throughout the City.

A budget adjustment is necessary to appropriate funds into the current fiscal year because plans were made to rent a CrafcO melter but the rental rate would cost \$36,000 for a six month period. After two paving seasons, the CrafcO rental would exceed the cost of a new purchase. The current CrafcO equipment has enough replacement funding to purchase a new CrafcO trailer mounted sealant melter and 11-625 will remain in the fleet an additional year.

Vehicle replacements are based on the Fleet Scoring System which considers factors such as age, mileage, reliability, prior maintenance and repair costs, and current condition. Below are the vehicle replacement scores. A score of 23 or more indicates the vehicle is eligible for replacement.

Vehicle ID	Replacement Score	Vehicle Condition
12-453	34	Meets City replacement criteria
12-452	34	Meets City replacement criteria
12-325	33	Meets City replacement criteria
12-324	33	Meets City replacement criteria
12-481	33	Meets City replacement criteria
00-646	28	Meets City replacement criteria
11-625	25	Meets City replacement criteria

FISCAL IMPACT

RFQ 10-3255

The total cost of four Autocar diesel trucks with Bridgeport side loading bodies including options and sales tax is \$1,300,217. Funding is included in the FY2019-20 Auto Replacement budget.

RFQ 10-3257

The total cost of one Autocar CNG truck with Bridgeport side loading body including options and sales tax is \$365,600. Funding is included in the FY2019-20 Auto Replacement budget.

RFQ 10-3259

The total cost of one Hyundai 80D-9 forklift including options and sales tax is \$96,663. Funding is included in the FY2019-20 Auto Replacement budget.

Sourcewell

The total cost of one CrafcO trailer mounted sealant melter including options and sales tax is \$56,979. A budget adjustment of \$57,640 will appropriate funds from the Auto Replacement Fund into the current fiscal year budget to purchase the equipment and cover minor prep work by Fleet staff to get the melter ready for deployment into the field.

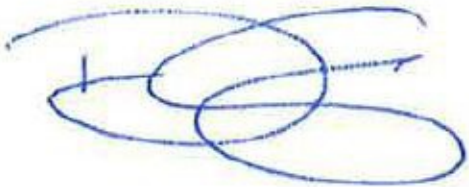
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. The purchase of vehicles and travel meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Brian Craighead, Fleet Manager

Jason Shykowski, Public Works Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-118

Notice of Intent to Award RFQ 10-3255

Resolution No. 20-119

Notice of Intent to Award RFQ 10-3257

Notice of Intent to Award RFQ 10-3259

Ordinance No. 6213

Budget Adjustment

RESOLUTION NO. 20-118

APPROVING A PURCHASE ORDER, BY AND BETWEEN THE CITY OF ROSEVILLE
AND DOBBS HEAVY DUTY HOLDINGS, LLC DBA WESTERN TRUCK CENTER, AND
AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF
THE CITY OF ROSEVILLE

WHEREAS, a purchase order with Dobbs Heavy Duty Holdings, LLC dba Western
Truck Center, for the purchase of four Autocar diesel trucks with Bridgeport side loading bodies,
has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that
said agreement is hereby approved; and

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to
approve change orders for the project, consistent with the contract terms, provided that the net
cost of all change orders shall not exceed two percent (2%) of the contract price.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of
_____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



311 Vernon Street
Roseville, CA 95678

NOTICE OF INTENT TO AWARD

Date: 4/15/20

To: All Bidders concerning RFQ 10-3255 for four AutoCar Diesel Bridgeport Side Loader Refuse Trucks

From: Finance, Purchasing Division, Tiffany Valdez, Buyer II

Subject: Notice of Intent to Award

For **RFQ 10-3255**, pending City Council approval, the City recommends awarding a purchase order to Western Truck Center.

To inquire about the recommended award, please write to the Purchasing Division, Tiffany Valdez, Buyer II at tvaldez@roseville.ca.us.

RESOLUTION NO. 20-119

APPROVING A PURCHASE ORDER, BY AND BETWEEN THE CITY OF ROSEVILLE
AND DOBBS HEAVY DUTY HOLDINGS, LLC DBA WESTERN TRUCK CENTER, AND
AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF
THE CITY OF ROSEVILLE

WHEREAS, a purchase order with Dobbs Heavy Duty Holdings, LLC dba Western Truck Center, for the purchase of one Autocar Compressed Natural Gas (CNG) truck with a Bridgeport side loading body, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said agreement is hereby approved; and

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to approve change orders for the project, consistent with the contract terms, provided that the net cost of all change orders shall not exceed two percent (2%) of the contract price.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



311 Vernon Street
Roseville, CA 95678

NOTICE OF INTENT TO AWARD

Date: 4/15/20

To: All Bidders concerning RFQ 10-3257 for one Autocar CNG Bridgeport Side Loader Refuse Truck

From: Finance, Purchasing Division, Tiffany Valdez, Buyer II

Subject: Notice of Intent to Award

For **RFQ 10-3257**, pending City Council approval, the City recommends awarding a purchase order to Western Truck Center.

To inquire about the recommended award, please write to the Purchasing Division, Tiffany Valdez, Buyer II at tvaldez@roseville.ca.us.



311 Vernon Street
Roseville, CA 95678

NOTICE OF INTENT TO AWARD

Date: 3/30/20
To: All Bidders concerning RFQ 10-3259 for one Hyundai 80D-9 diesel Forklift
From: Finance, Purchasing Division, Tiffany Valdez, Buyer II
Subject: Notice of Intent to Award

For **RFQ 10-3259**, pending City Council approval, the City recommends awarding a purchase order to Pacific Material Handling Solutions.

To inquire about the recommended award, please write to the Purchasing Division, Tiffany Valdez, Buyer II at tvaldez@roseville.ca.us.

ORDINANCE NO. 6213

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20
BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY
EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2019-20, is hereby amended by transferring appropriation to and from the activities indicated below:

Appropriate funds for a CrafcO trailer mounted sealant melter, per request of the Public Works Department, as listed on the attached Request for Budget Adjustment in the amount of \$57,640.

SECTION 2. This ordinance is hereby declared to be an appropriation measure, immediately effective pursuant to the provisions of Section 5.03 of the Charter.

SECTION 3. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the ordinance book, under the record of the ordinance, a certificate under her hand stating the time and place of such publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville, this
_____ day of _____, 2019, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITLE: Jerry Dankbar, Street Maintenance Superintendent FISCAL YEAR: 2020
 PREPARER NAME & TITLE: Valerie DePeel, Budget Analyst COUNCIL DATE (if applicable): 5/1/2020
 DEPARTMENT/DIVISION: PW / Paving ORDINANCE: _____

EXPENDITURES/EXPENSES/TRANSFERS OUT

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
4005	6552	62601		57,640	Crack Seal Machine in 62320 replacing unit #11-625
TOTAL				57,640	

REVENUES/TRANSFERS IN

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
TOTAL				-	

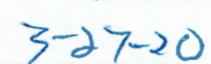
NET ADJUSTMENT	57,640	
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FUND BALANCE

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
4005				(57,640)	Reduction of Fleet repl fund (vehicle #11-625)
TOTAL				(57,640)	

Justification for Budget Adjustment:

1). This is to appropriate \$57,640 in the Fleet Replacement fund to purchase a replacement crack seal machine for 11-625. The machine will be used by the Public Works Street division Paving center 62320. Original plans were to rent an additional unit, but rental costs exceed \$36,000 for six months. Sufficient funds to purchase this machine already exist and will come from vehicle #11-625. Due to current planned paving needs at Sun City and other areas, the existing unit #11-625 will be kept an additional year.

 REQUESTING DEPARTMENT HEAD / DESIGNEE Dennis Kauffman Digitally signed by Dennis Kauffman Date: 2020.03.27 15:58:31 -07'00'		REQUIRED APPROVALS:  DATE	Scott Pettingell Digitally signed by Scott Pettingell Date: 2020.03.27 15:30:41 -07'00' BUDGET MANAGER / DESIGNEE DATE
CHIEF FINANCIAL OFFICER / DESIGNEE DATE		CITY MANAGER / DESIGNEE DATE	
BUDGET DEPARTMENT USE ONLY:			
POSTED BY DATE			

Revised: June 24, 2019



COUNCIL COMMUNICATION

CC #: 0714
File #: 0900-02

Title: Aquifer Storage and Recovery – Monitoring Wells Project – Approval of Plans and Specifications and Authorization to Call for Bids
Contact: Jason T. Marks 916-342-9573 jtmarks@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.2.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council approve the Aquifer Storage and Recovery – Monitoring Wells Project plans and specifications and authorize approval to advertise for construction bids.

BACKGROUND

The objective of this project is to support Roseville's groundwater program by installing groundwater monitoring wells at up to eight (8) sites in the City. These wells will provide essential geology and groundwater quality data that will validate the technical feasibility of planned Aquifer Storage and Recovery (ASR) production wells at these sites. The primary purpose of this exploratory data collection effort is to provide pre-design information for ASR production wells as described above to limit the fiscal risk to the City, especially if the site is discovered to be unworkable through the less expensive monitoring well drilling process. The monitoring wells will also provide secondary benefits, including groundwater elevation and water quality data that can be used to manage ongoing ASR program implementation and can also be used to support regional efforts to sustainably manage the groundwater basin in accordance with State regulatory requirements. Ultimately, these ASR production well sites and accompanying monitoring wells will allow Roseville to diversify our water supplies, providing water supply reliability benefits to meet the needs of our customers and provide the foundation for a thriving economy.

A competitive bid process will be utilized to select a contractor for this project. The estimated project duration is three (3) months. The estimated cost of the project is \$1,200,000. A complete Request for Bids Package including plans and specifications are available for review in the City Clerk's Office.

FISCAL IMPACT

This project is estimated to cost \$1,200,000. Funding for this project is provided by the Water Construction Fund.

ENVIRONMENTAL REVIEW

The proposed project involves basic data collection and resource evaluation activities which do not result in a disturbance to environmental resources, which is categorically exempt from CEQA as a Class 6 Exemption (State CEQA Guidelines §15306). The project also involves construction of minor facilities, which is categorically exempt from CEQA as a Class 3 Exemption (State CEQA Guidelines §15303) and minor alterations to land, which is categorically exempt from CEQA as a Class 4 Exemption (State CEQA Guidelines §15304). The Exemption has been prepared and no further CEQA action is required.

Respectfully Submitted,

Jason T. Marks, Senior Engineer

Richard D. Plecker, Environmental Utilities Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Project Manual - ASR Monitoring Well Project



Buildings & Grounds **Project Manual**

Name of project:

Aquifer Storage and Recovery – Monitoring Wells Project

Department:

Environmental Utilities

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CITY OF ROSEVILLE
DEPARTMENT OF ENVIRONMENTAL UTILITIES
AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT

NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN THAT sealed Proposals will be received at the Office of the City Clerk, 311 Vernon Street, Roseville, California, until June 9, 2020 at 3:00 p.m. Late Proposals will be rejected. No exceptions.

The Proposals will be publicly opened and read by the City Clerk or designee of the City of Roseville at 3:05 p.m. on June 9, 2020 at the Office of the City Clerk located at 311 Vernon Street, Roseville California for the following project: Aquifer Storage and Recovery – Monitoring Wells Project.

A mandatory pre-bid meeting will be held on Tuesday, May 26, 2020 at 9 AM at 2005 Hilltop Circle Roseville, CA 95747.

A Project Manual, including all Contract Documents and the Proposal forms for bidding this project, may be obtained on-line from the City of Roseville's Public Purchase website at <https://www.publicpurchase.com>. All communications relative to this project shall be conducted through Public Purchase.

Bids shall be submitted on the City's Proposal Forms included in the Project Manual, plainly endorsed with the Bidder's name together with signed acknowledgement of any and all addenda. Proposal Forms shall be securely sealed in a suitable envelope marked with the name and address of the Bidder, and marked in capital letters on the front and back of the envelope as

follows:

PROPOSAL AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT (Name of Bidder) (Address of Bidder) BID OPENING DATE: June 9, 2020
--

Whether mailed or personally delivered, all bids shall be addressed to the City of Roseville, Office of the City Clerk, 311 Vernon Street, Roseville, California, 95678.

Each bid must be accompanied by a Bid Guaranty in the form of a Certificate of Deposit, Certified or Cashier's Check, Bidder's Bond or Irrevocable Standby Letter of Credit in an amount equal to at least ten percent (10%) of the Bidder's Grand Total Price. The Bid Guaranty will be retained by the City and applied to any and all damages sustained by the City in the event that the successful Bidder fails or refuses to enter into the Contract awarded to it and to furnish all required bonds and Certificates of Insurance. The City intends to award the Contract to the lowest responsible Bidder based on the Grand Total Bid Price for all components of the Project. To the extent allowed by law, the City reserves the right to reject any and all bids and/or to waive any irregularities or informalities in any bid or in the bidding procedure. The City specifically reserves the right to not award the Contract after the opening of bids.

Any bid may be withdrawn at any time prior to the time fixed in the public notice for the deadline submission of bids only by written request for the withdrawal of the bid filed with the City Clerk. The request shall be executed by the Bidder or his or her duly authorized representative. The withdrawal of a bid does not prejudice the right of the Bidder to file a new

bid by the submission deadline. Whether or not bids are opened exactly at the time fixed in the public notice for opening bids, a bid will not be received after the deadline submission of bids nor may any bid be withdrawn after the time fixed in the public notice for deadline for submission of bids. Immediately following the deadline for submission of bids all bids shall become the property of the City of Roseville and the City is under no obligation to return bids.

Bids will be examined and reported to the City Council within sixty (60) business days after the bid opening. Except as permitted by applicable law, no Bidder may withdraw its bid for a period of sixty (60) business days after the date of bid opening. Each Bidder will be notified of any award of the Contract by the City.

The City will affirmatively ensure non-discrimination on the basis of one or more of the following: race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, age, sexual orientation, or military and veteran status in the award and administration of contracts that it awards.

Pursuant to Public Contract Code Section 22300, the successful Bidder may submit certain securities in lieu of the City withholding retention of payments during the Project.

The City has determined that the Contractor shall possess a valid C-57 Well Drilling Contractor's license at the time that the bid is submitted, as well as any other license classification as may be required by the laws of the California for the performance of the work specified in the Contract Documents. Said license shall be maintained during the Contract period. Failure to possess the specified license shall render the bid nonresponsive and will act as a bar to the award of the Contract to any Bidder not possessing such a license at the time of bid submittal. The Contractor shall provide certification of the license, its number and the expiration date on the proposal form.

The work is to be done in Placer County. Pursuant to California Labor Code Section 1773, the City has ascertained the General Prevailing Rate of Wages in the County in which the work is to be done to be as determined by the Director of Industrial Relations of the State of California. The Contractor is hereby made aware that information regarding prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>. The Contractor is required to post a copy of the applicable wage rates at the job site. Attention is directed to Section 5 “Legal Relations and Responsibility” of the General Conditions.

Pursuant to Labor Code Section 1771.1(b), notice is hereby given that a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in Labor Code Sections 1720, et seq., unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5 or exempt from registration requirements pursuant to Labor Code Section 1725.5(f). It is not a violation of Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform work pursuant to Labor Code Section 1725.5 at the time the contract is awarded or is exempt from registration requirements pursuant to Labor Code Section 1725.5(f). The Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

All questions prior to the deadline for bid submissions shall be directed to Public Purchase at <https://www.publicpurchase.com>. The deadline for submissions of questions and

CITY OF ROSEVILLE
DEPARTMENT OF ENVIRONMENTAL UTILITIES
AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT

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Bids shall be submitted on the City's Proposal Forms included in the Project Manual, plainly endorsed with the Bidder's name together with signed acknowledgement of any and all addenda. Proposal Forms shall be securely sealed in a suitable envelope marked with the name and address of the Bidder, and marked in capital letters on the front and back of the envelope as

follows:

PROPOSAL AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT (Name of Bidder) (Address of Bidder) BID OPENING DATE: June 9, 2020
--

Whether mailed or personally delivered, all bids shall be addressed to the City of Roseville, Office of the City Clerk, 311 Vernon Street, Roseville, California, 95678.

Each bid must be accompanied by a Bid Guaranty in the form of a Certificate of Deposit, Certified or Cashier's Check, Bidder's Bond or Irrevocable Standby Letter of Credit in an amount equal to at least ten percent (10%) of the Bidder's Grand Total Price. The Bid Guaranty will be retained by the City and applied to any and all damages sustained by the City in the event that the successful Bidder fails or refuses to enter into the Contract awarded to it and to furnish all required bonds and Certificates of Insurance. The City intends to award the Contract to the lowest responsible Bidder based on the Grand Total Bid Price for all components of the Project. To the extent allowed by law, the City reserves the right to reject any and all bids and/or to waive any irregularities or informalities in any bid or in the bidding procedure. The City specifically reserves the right to not award the Contract after the opening of bids.

Any bid may be withdrawn at any time prior to the time fixed in the public notice for the deadline submission of bids only by written request for the withdrawal of the bid filed with the City Clerk. The request shall be executed by the Bidder or his or her duly authorized representative. The withdrawal of a bid does not prejudice the right of the Bidder to file a new

bid by the submission deadline. Whether or not bids are opened exactly at the time fixed in the public notice for opening bids, a bid will not be received after the deadline submission of bids nor may any bid be withdrawn after the time fixed in the public notice for deadline for submission of bids. Immediately following the deadline for submission of bids all bids shall become the property of the City of Roseville and the City is under no obligation to return bids.

Bids will be examined and reported to the City Council within sixty (60) business days after the bid opening. Except as permitted by applicable law, no Bidder may withdraw its bid for a period of sixty (60) business days after the date of bid opening. Each Bidder will be notified of any award of the Contract by the City.

The City will affirmatively ensure non-discrimination on the basis of one or more of the following: race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, age, sexual orientation, or military and veteran status in the award and administration of contracts that it awards.

Pursuant to Public Contract Code Section 22300, the successful Bidder may submit certain securities in lieu of the City withholding retention of payments during the Project.

The City has determined that the Contractor shall possess a valid C-57 Well Drilling Contractor's license at the time that the bid is submitted, as well as any other license classification as may be required by the laws of the California for the performance of the work specified in the Contract Documents. Said license shall be maintained during the Contract period. Failure to possess the specified license shall render the bid nonresponsive and will act as a bar to the award of the Contract to any Bidder not possessing such a license at the time of bid submittal. The Contractor shall provide certification of the license, its number and the expiration date on the proposal form.

The work is to be done in Placer County. Pursuant to California Labor Code Section 1773, the City has ascertained the General Prevailing Rate of Wages in the County in which the work is to be done to be as determined by the Director of Industrial Relations of the State of California. The Contractor is hereby made aware that information regarding prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>. The Contractor is required to post a copy of the applicable wage rates at the job site. Attention is directed to Section 5 “Legal Relations and Responsibility” of the General Conditions.

Pursuant to Labor Code Section 1771.1(b), notice is hereby given that a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in Labor Code Sections 1720, et seq., unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5 or exempt from registration requirements pursuant to Labor Code Section 1725.5(f). It is not a violation of Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform work pursuant to Labor Code Section 1725.5 at the time the contract is awarded or is exempt from registration requirements pursuant to Labor Code Section 1725.5(f). The Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

All questions prior to the deadline for bid submissions shall be directed to Public Purchase at <https://www.publicpurchase.com>. The deadline for submissions of questions and

clarifications regarding the Contract Documents is seven (7) calendar days before the deadline for bid submissions. Only Addenda issued by the City are binding.

City Clerk, City of Roseville

Dated: _____

Published: _____

INSTRUCTIONS TO BIDDERS

SECTION 1. GENERAL

1-1.01.1 GENERAL. These Instructions to Bidders form a part of the Contract Documents. Capitalized terms are defined in the General Conditions Section 1.

1-1.01.2 EXAMINATION OF PLANS, CONTRACT DOCUMENTS AND SITE OF THE WORK. The Bidder shall examine carefully the site of the Work and all the Contract Documents, including these Instructions to Bidders, and shall inform itself of the conditions relating to the execution of the Work. Failure to do so will not relieve the successful Bidder of its obligation to enter into an Agreement and complete the Work in strict accordance with the Contract Documents. Conditions relating to the execution of the Work include the requirements of federal, state, and local laws, statutes and ordinances relative to the execution of Work, including, but not limited to, applicable regulations concerning prevailing wage rates, non-discrimination in the employment of labor, protection of the public, employee health and safety, and environmental protection.

The submission of a bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work to be performed, the quantities of materials to be furnished, and as to the requirements of all the Contract Documents.

1-1.01.3 EXISTING INFORMATION. Where the Department has made investigations of site conditions, including subsurface conditions in areas where Work is to be performed under the Contract, such investigations are made only for the purpose of study and design. City does not represent that such conditions as found in these investigations or inferences or conclusions drawn as a result of these investigations will represent actual site conditions and hereby

disclaims any liability as a result of Contractor's or Bidder's reliance on such investigations. City will presume that all Bidders have conducted their own site investigations, including investigations of subsurface conditions. Where such investigations have been made, Bidders or Contractors may, upon written request, inspect the records of the Department as to such investigations subject to the conditions set forth in these Instructions to Bidders. Such inspection of records may be made only at the location noted above. The records of such investigations are not a part of the Contract Documents and are shown solely for the convenience of the Bidder or Contractor. The City assumes no responsibility whatsoever with respect to the sufficiency or accuracy of the investigations made, the records thereof, or of the interpretations set forth therein or made by the City in its use thereof. The City makes no warranty or guarantee, either express or implied, that the conditions indicated by such investigations or records are representative of those existing throughout such areas, or any part thereof, or that unforeseen developments may not occur, or that materials other than, or in proportions different from those indicated, may not be encountered. No information derived from such inspection of records of investigations or compilation thereof made by the City, the Department or from the Engineer, or his or her assistants, will in any way relieve the Bidder or Contractor from properly examining the site and making such additional investigations as it may elect, or from properly fulfilling the terms of the Contract.

SECTION 2: BID REQUIREMENTS

2-1.01 PROPOSAL FORMS. The Department will furnish to each Bidder standard Proposal Forms, which, when filled out and executed may be submitted as the bid. Proposals shall include all pages in the Project Manual with page numbers marked “PROP” plus the Addendum acknowledgment form (front sheet) from all Addenda received by the Bidder. Proposals shall be removed from the Project Manual. The full Project Manual shall not be submitted with the proposal. Bids not presented on forms so furnished will be disregarded.

The Proposal and one (1) copy thereof shall be submitted as directed in the “Notice to Contractors” under sealed cover plainly marked as a Proposal, and identifying the project to which the Proposal relates and the date of the bid opening therefor. Proposals which are not properly marked may be disregarded.

All blank spaces in the Proposal must be completed, as required, in ink. All price information shall be shown, clearly legible, in figures where required.

The Bidder shall sign the Proposal in the blank space provided therefor. If the Bidder is the sole owner, the Proposal shall be signed by the owner. If the Bidder is a corporation, the legal name of the corporation and its State of incorporation shall be set forth and the Proposal shall be signed by at least two officers authorized to sign contracts on behalf of the corporation. If the Bidder is a partnership, the true name of the firm shall be set forth, the names and addresses of all partners shall be given and the Proposal shall be signed by a partner in the firm authorized to sign contracts on behalf of the partnership. If the Bidder is a joint venture, the Proposal shall be signed on behalf of each participating company by officers or other individuals who have the full and proper authorization to do so. If the Proposal is signed by an agent of the Bidder other than an officer of a corporation or a member of a partnership, a notarized Power of Attorney must be

on file with the City prior to opening of bids or must be submitted with the Proposal. If requested by the City, the Bidder shall promptly submit evidence satisfactory to the City of the authority of the person signing the Proposal.

2-1.02 SUBMISSION OF BIDS. Bids must be submitted at the prescribed time and location specified in the Notice to Contractors. Any submission received after the prescribed time shall be rejected, regardless of whether or not bids are opened exactly at the prescribed time.

Any unauthorized conditions or qualifications entered on, or changes made to, the Proposal may render it invalid and may cause its rejection.

No telegraphic, telephonic, or facsimile or other electronically transmitted bids will be considered.

2-1.03 REQUIRED LISTING OF PROPOSED SUBCONTRACTORS. Each Proposal shall list the name, address and Contractor license number of each Subcontractor to whom the Bidder proposes to subcontract portions of the Work in an amount in excess of one-half of one percent (0.5%) of its total bid, in accordance with Section 4100 to 4114, inclusive, of the Public Contract Code for the State of California. The Bidder shall list the Subcontractor's license number and the portion of the Work that will be done by each Subcontractor. If the Bidder fails to specify a Subcontractor for any portion of the Work, the Bidder agrees to perform that portion of the Work itself, and represents that it is qualified to perform that portion of the Work itself. The Bidder's attention is invited to other provisions of the Public Contract Code related to the imposition of penalties for a failure to observe its provisions by using unauthorized Subcontractors or by making unauthorized substitutions.

2-1.04 CONTRACTOR'S LICENSING LAWS. Attention is directed to the provisions

of Business and Professions Code Chapter 9 of Division 3 concerning the licensing of Contractors.

All Bidders at the time of bid submittal shall be licensed as Contractors in accordance with the laws of this State. Any Bidder or Contractor not so licensed is subject to the penalties imposed by such laws. The form of Contractor's license required is stated in the Notice to Contractors, provided that the City makes no representation as to whether the State may require other or additional licenses. It is the Bidder's and Contractor's responsibility to obtain the correct Contractor's licenses. Bidders shall be skilled and regularly engaged in the general class or type of Work called for under this Contract.

All Bidders and Contractors, including Subcontractors, shall have a current City business license before undertaking any Work.

2-1.05 NONCOLLUSION DECLARATION. By submitting a bid, the Bidder represents and warrants that such bid is genuine and not a sham or collusive or made in the interest or on the behalf of any person therein named, and that the Bidder has not, directly or indirectly, included or solicited any other Bidder to put in a sham bid, or any other person, firm, or corporation to refrain from bidding, and that the Bidder has not in any manner sought collusion to secure the Bidder an advantage over any other Bidder.

Bidders shall submit a properly completed and executed "Noncollusion Declaration" in the form required by Public Contract Code Section 7106 and provided with the Proposal (PROP-11).

2-1.06 DISQUALIFICATION, REMOVAL OR OTHER PREVENTION OF BIDDING. A bid may be rejected on the basis of a Bidder, any officer of such Bidder, or any employee of such Bidder who has a proprietary interest in such Bidder, having been disqualified,

removed, or otherwise prevented from bidding on, or completing a federal, state, or local project because of a violation of law or a safety regulation.

2-1.07 PROPOSAL GUARANTY. All bids shall be accompanied by one of the following forms of Bidder's security: Cash, a cashier's check, a certified check, or a Bidder's bond executed by an admitted California surety insurer, made payable to the City of Roseville, or any other form of security deemed acceptable by the City Attorney. The security shall be in an amount equal to at least ten percent (10%) of the amount bid. A bid will not be considered unless one of the form of Bidder's security is enclosed with it.

A Bidder's bond shall conform to the City's bond form in the Proposal and shall be properly filled out and executed.

2-1.08 SCHEDULE OF BID ITEMS. Bidders are directed to submit unit and lump sum prices for all Work set forth in the Contract Documents on the Proposal Form entitled "Schedule of Bid Items."

Unit prices and lump sum prices, as indicated, must be entered in the appropriate spaces provided in the Schedule of Bid Items. If applicable, unit prices shall be multiplied by the quantities shown, and the total shall be inserted in the Amount column. In the event of any error or discrepancy between the unit price and the calculated amount, the unit prices shall govern.

The City may correct any mathematical errors apparent on the face of the bid.

The amounts shown in the Amount column must be added together in arriving at the Grand Total Bid Price.

Amounts for Allowance bid items must be entered in the exact amount in the Amount column.

The prices included within the Schedule of Bid Items shall include all costs for labor,

materials, tools, equipment, services, Subcontractors, suppliers, taxes, insurance, shipment, delivery, overhead, profit, and all other costs necessary to perform the Work in accordance with the Contract Documents.

The Grand Total Bid Price shall be indicated in the Summary table form included with the Schedule of Bid Items. The Grand Total Bid Price shall be the sum of the amounts bid for each of the designated portions of the Work, as more specifically described on the Schedule of Bid Items form itself.

Full compensation for complying with the Contract Documents, including requirements of the Standard Specifications, the General Conditions, Supplemental Conditions, and all warranties, shall be considered included in the bid items and no additional compensation shall be allowed therefor.

Full compensation for completion of all work as shown on the plans, as specified in the Specifications, and as directed by the City, shall be considered included in the bid items and no additional compensation shall be allowed.

Bidders are strongly discouraged from submitting unbalanced bids. As used herein, the term “unbalanced bid” is defined as any bid that does not include a reasonable proportionate allocation of indirect costs and profit of each bid item indicated in the Schedule of Bid Items. The City reserves the right to reject any unbalanced bid if the City determines that there is a reasonable doubt that an acceptance of the bid will not result in the lowest ultimate cost to the City with regard to the work or a disproportionate distribution of contract funds.

The City reserves the right to delete any bid item in its entirety and/or significantly reduce the quantity of Work under a bid item. The City makes no representation that any Work under a bid item will be performed during the course of the Project or that the Work will be

performed at the quantities included in the Schedule of Bid Items. As provided in the General Conditions, for any deleted Work, Contractor shall not be entitled to payment of the indirect costs and profit included for said bid item. All bid items shall be considered distinct and severable from the remaining bid items, and each Bidder acts at its peril if its bid is unbalanced.

The City shall compare bids on the basis of the Grand Total Bid Price, which includes the base bid and any alternates designated on the Schedule of Bid Items. Alternates may or may not be awarded, or may be awarded in any combination, at the City's discretion.

2-1.09 WITHDRAWAL OF PROPOSALS. Any bid may be withdrawn at any time prior to the time fixed in the Notice to Contractors for the opening of bids, provided that a request in writing, executed by the Bidder or its duly authorized representative, for the withdrawal of such bid is filed with the City Clerk. Facsimile and electronic mail requests are not acceptable. The withdrawal of a bid shall not prejudice the right of a Bidder to file a new bid. The withdrawal of any bid after the time fixed in the Notice to Contractors for the opening of bids will not be permitted.

2-1.10 ADDENDUM. Proposals shall include all costs and account for all Addenda issued prior to opening of bids. The Bidder is responsible for verifying that all issued Addenda have been received. An Addendum acknowledgment form for each Addendum shall be included as part of the Proposal submittal.

2-1.11 PUBLIC OPENING OF PROPOSALS. Proposals will be publicly opened and read at the time and place indicated in the Notice to Contractors. Bidders or their authorized agents are invited to be present.

2-1.12 TRENCHING AND EXCAVATION WORK. In accordance with the provisions of California Labor Code Section 6707, if the Work involves construction of a

pipeline, sewer, sewage disposal system, boring or jacking pits, or similar trenches or open excavations, which are five feet (5') or deeper, each bid submitted shall contain, as a bid item, adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life or limb, which shall conform to all applicable safety orders.

SECTION 3: EVALUATION OF BIDS

3-1.01 BID EVALUATION PROCESS. Bids will be evaluated to determine the apparent low Bidder. The apparent low Bidder will be determined on the basis of the Grand Total Bid Price, as shown in the Schedule of Bid Items. If additive or deductive alternates are used in the Schedule of Bid Items, the apparent low Bidder will be the Bidder with the lowest total of the bid prices for base contract items plus the alternates designated by the City as those that will be used for determining the lowest bid price. However, the City reserves the right to (1) not award any alternates or (2) award any combination of alternates.

In case of discrepancy between the total of the base contract items and any specified alternates and the stated Grand Total Bid Price, the total of the base contract items plus specified alternates shall prevail. Any mathematical errors that appear on the face of the bid will be corrected by the City and the City will use the mathematically corrected addition. For example, if the mathematical total of Bidder's base contract items plus specified alternates equals \$1,000,000, but the Bidder has written \$1,250,000 as the Grand Total Bid Price, the City will consider \$1,000,000 to be the Bidder's Grand Total Bid Price for purposes of comparison to other Bidders and actual bid award. The City reserves its rights to reject or accept bids based on discrepancies between the stated Grand Total Bid Price and the actual mathematical total of the base contract bid items, plus specified alternates.

3-1.02 REJECTION OF IRREGULAR PROPOSALS. Proposals may be rejected in the City's sole discretion if they show any alterations of form, additions not called for, conditional bids, incomplete bids, erasures, or irregularities of any kind. However, the City reserves the right to waive any minor irregularities and informalities in any bid or in the bid procedure for any reason.

3-1.03 COMPETITIVE BIDDING. If more than one proposal is offered by any individual, firm, partnership, corporation, association, or any combination thereof, under the same or different names, all such proposals may be rejected. A party who has quoted prices on materials or Work to a Bidder is not thereby disqualified from quoting prices to other Bidders, or from submitting a bid directly for the materials or Work.

All Bidders are put on notice that any collusive agreement to control or affect the awarding of this Contract is in violation of the competitive bidding requirements of the City Charter, State Contract Act and the Business and Professions Code and may render void any Contract let under such circumstances.

3-1.04 RELIEF OF BIDDERS. If the Bidder claims a mistake was made in its bid, the Bidder shall give the Department written notice within five (5) Days after the opening of the bids of the alleged mistake, specifying in the notice in detail how the mistake occurred. No relief from a claimed mistaken bid shall be granted unless such mistake clearly appears on the face of the bid submitted to the City. Claimed mistakes on backup worksheets, spreadsheets, computerized bidding programs, or any other similar calculative bidding mistake which is not apparent on the face of the bid shall not under any circumstance be considered as a basis for relief. The burden of proving the occurrence of a mistake entitling a Bidder to relief from its bid rests entirely on the Bidder. Relief from bids shall be in the City's sole discretion.

SECTION 4: AWARD AND EXECUTION OF CONTRACT

4-1.01 AWARD OF CONTRACT. The City reserves the right to reject any and all proposals and to award (or not award) any combination of bid items at its option. Any such award will be to the lowest responsible Bidder whose proposal complies with the requirements prescribed for the bid items awarded. Such award, if made, will be made within sixty (60) business days after the opening of the proposals. If the lowest responsible Bidder refuses or fails to execute the Contract, or provide an acceptable Performance Bond, Payment Bond, and insurance certificate(s), the City may award the Contract to the second lowest responsible Bidder. Such award, if made, will be made within eighty-two (82) business days after the opening of proposals. If the second lowest responsible Bidder refuses or fails to execute the Contract, or provide an acceptable Performance Bond, Payment Bond, and insurance certificate(s), the City may award the Contract to the third lowest responsible Bidder. Such award, if made, will be made within one hundred four (104) business days after the opening of the proposals. The above time periods within which the award of Contract may be made are subject to extension for such further period as may be agreed upon in writing between the City and the Bidder concerned.

4-1.02 RETURN OF BIDDER'S SECURITIES. Within ten (10) Days after the award of the Contract, the City Clerk will return all Bidders' securities, other than Bidders' bonds, accompanying the proposals that are not to be further considered in making the award. Retained Bidders' securities will be held until the Contract has been fully executed, after which all Bidders' securities, except Bidders' bonds and any Bidders' securities that have been forfeited, will be returned.

4-1.03 CONTRACT BONDS. The successful Bidder shall furnish two (2) bonds in the form contained in the section entitled Insurance Broker Information Packet and Bonds. One (1)

bond shall secure the payment of the claims of laborers, mechanics or materialmen employed on the Work under the Contract, and the other bond shall guarantee the faithful performance of the Contract.

Each of the two (2) bonds shall be in a sum equal to one hundred percent (100%) of the Contract Price. If the Contract Price increases by the issuance of Change Orders, the penal amounts of the bonds required shall increase accordingly. Sureties on each of said bonds shall be satisfactory to the City.

All alterations, extensions of time, extra and additional Work, and other changes authorized by the Standard Specifications, the General Conditions, the Supplemental Conditions or any part of the Contract may be made without securing the consent of the surety or sureties on the Contract bonds.

Furthermore, the successful Bidder shall furnish a certificate from the County Clerk as required by California Civil Code of Procedure Section 995.660(a)(3).

4-1.04 INSURANCE. At the time of the execution of the Contract, the Contractor shall, at its own expense, procure, and at all times during the prosecution of the Work maintain in full force and effect Worker's Compensation Insurance, and Liability Insurance as specified in the General Conditions. The Contractor shall provide a Certificate of Insurance in the form contained in the section entitled Insurance Broker Information Packet.

4-1.05 EXECUTION OF CONTRACT. The Contract shall be signed by the successful Bidder and returned, together with all the required Contract bonds and insurance certificates, within ten (10) Working Days after the Contract has been awarded, or as otherwise directed, in writing, by the City.

If the Bidder is an individual, the Contract shall be executed personally by the Bidder. If

the Bidder is a partnership, it is desirable that the Contract be executed by all of the partners, but it may be executed by one of them. If the Bidder is a corporation, it must be executed by two officers of the corporation consisting of (1) the chairman of the board, president or vice president; and (2) the secretary, assistant secretary, chief financial officer, treasurer or assistant treasurer, or by a person authorized by the corporation to execute written contracts on its behalf, and the corporate seal affixed thereto. In the alternative, a person other than an officer may sign the Contract, provided evidence satisfactory to the City is provided indicating the individual's authority to bind the corporation. If the corporate seal is not affixed to the Contract, or if it is executed by a person other than officers, or only by one officer, there must be attached to the Contract a certified copy of a resolution of the corporation authorizing such officer or person to execute written contracts for and on behalf of the corporation. If the Bidder is a joint venture, the Contract must be executed on behalf of each participating firm by officers or other individuals who have the full and proper authorization to do so.

4-1.06 FAILURE TO EXECUTE CONTRACT. Failure of the lowest responsible Bidder, the second lowest responsible Bidder, or the third lowest responsible Bidder to execute the Contract and file acceptable bonds and insurance as provided within ten (10) Working Days after the Contract has been awarded, or as otherwise directed, in writing, by the City, shall be just cause for annulment of the award and forfeiture of the Bidder's security. The successful Bidder may file with the City Clerk a written notice, signed by the Bidder or Bidder's authorized representative, specifying that the Bidder will refuse to execute the Contract if presented to Bidder. The filing of such notice shall have the same force and effect as the failure of the Bidder to execute the Contract and furnish acceptable bonds within the time prescribed.

SECTION 5: BID PROTEST PROCEDURES

5-1.01 POLICY/PROCEDURES. It is the policy of the City to consider fully and adjudicate promptly protests filed by prospective Bidders relating to the City's bidding procedure or award of the Contract. Protests shall be filed and processed in accordance with Section 4.12.150 of the Roseville Municipal Code. A Bidder's failure to follow the bid protest procedures may result in rejection of the protest by the City.

**PROPOSAL TO THE DEPARTMENT OF ENVIRONMENTAL UTILITIES
AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT**

Name of Bidder _____

Business Phone _____

Business Address _____

Place of Business _____

Contractor's License No. _____

License Expiration Date _____

License Classification Type _____

DIR Registration No. _____

Type of business organization _____

*If a Corporation, incorporated under the laws of the State of: _____

City of Roseville Business License No. _____

The undersigned Bidder herewith submits this Proposal and binds itself on award by the City of Roseville under this bid to execute a Contract in accordance with its bid and the Contract Documents.

The Notice to Contractors, Instructions to Bidders, Form of Agreement, Specifications, General Conditions, Supplemental Conditions, Contract Drawings, and Addenda, if any, are made part of this bid and all provisions thereof are hereby accepted, and all representations and warranties are required thereby are hereby affirmed.

The work to be done is described in the Bidding Documents entitled AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT, City of Roseville, California. This offer shall be irrevocable for a period of sixty (60) Days after the date on which bids are opened.

City of Roseville California

Request for Bids: Aquifer Storage and Recovery – Monitoring Wells Project
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PROP-1

The undersigned Bidder understands that any clarification made to the above or any new and different conditions or information submitted on or with its Proposal, other than that requested, may render the bid non-responsive.

The undersigned, as Bidder, declares that the only persons or parties interested in this Proposal as principals are those named herein; that this Proposal is made without collusion with any other person, firm, or corporation; that the Bidder has carefully examined the location of the proposed Work, the attached Form of Agreement, and the plans, Specifications, and other Contract Documents; and agrees if this Proposal is accepted, that it will contract with the City of Roseville, in the form of a copy of the Agreement contained in the Project Manual, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the Contract Documents, in the manner and time therein prescribed, and according to the requirements of the Director, as therein set forth, and that the Bidder will take in full payment therefore prices indicated in the Schedule of Bid Items, including all work modified by addendum numbers_____. (IF NONE, STATE NONE).

Bids are required for all Bid Items. The amount of the Bid for comparison purposes will be the total of all items awarded.

The Bidder shall set forth for each item of work, in clearly legible figures, an item (“unit”) price and a total for the item in the respective spaces provided for this purpose in the Schedule of Bid Items.

The prices included within the Schedule of Bid Items include all costs for labor, materials, tools, equipment, services, Subcontractors, suppliers, taxes, insurance, shipment, delivery, overhead, profit, and for all other costs necessary to perform the Work in accordance

with the Contract Documents.

Accompanying this Proposal is _____ (Insert the words

“Cash,” “Cashier's Check,” “Certified Check,” or “Bidder's Bond,” as the case may be)

In the Amount of: _____ (an amount equal to at least ten percent (10%) of the total of the Bid.)

The names of all persons interested in the foregoing Proposal as Principals, are as follows:

The names of the following staff persons that will be directly involved in this project are:

Project Superintendent: _____

Project Manager: _____

If SOLE OWNER, execute here:

I sign as sole owner of the business named above:

If PARTNERSHIP, one or more partners sign here:

The undersigned certify that we are partners in the business named above and that we sign this bid with the full authority to do so:

If CORPORATION, execute here:

Corporate Name: _____

Incorporated under the laws of the State of _____

City of Roseville California

Request for Bids: Aquifer Storage and Recovery – Monitoring Wells Project

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PROP-3

The undersigned certify that they sign this bid with the full and proper authorization so to do:

By:

By:

*Signature of Authorized Official**

*Signature of Authorized Official**

Title

Title

Typewritten or Printed Name

Typewritten or Printed Name

If JOINT VENTURE, execute here:

Joint Venture name composed of: _____

The undersigned certify that they sign this bid with the full and proper authorization so to do:

Signature of Authorized Official Title*

Signature of Authorized Official Title*

Typewritten or Printed Name

Typewritten or Printed Name

*If Bidder is a partnership or Joint Venture, give the full names of all partners and/or Joint Ventures in the space provided (use additional sheet if required). If Bidder is a corporation, two signatures are required as follows: (1) the Chairman, President, or Vice-President and (2) the Secretary, Assistant Secretary, Chief Financial Officer, Treasurer, or Assistant Treasurer. In the alternative, this Agreement may be executed by a single officer or a person other than an officer provided that evidence satisfactory to City is provided demonstrating that such individual is authorized to bind the corporation (example, a copy of a certified resolution from the corporation's board or a copy of the corporation's bylaws).

City of Roseville California

Request for Bids: Aquifer Storage and Recovery – Monitoring Wells Project
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PROP-4

LIST OF SUBCONTRACTORS

Contractor's Name: _____

The Bidder is required to furnish the following information in accordance with the provisions of Section 4100 and 4114, inclusive, of the Public Contract Code of the State of California. This list and information shall include all Subcontractors that perform work, provide labor or render services to the Bidder in connection with the Project in an amount in excess of one-half of one percent (0.5%) of the total amount of the Bidder Grand Total Price.

PORTION/ TYPE OF WORK	% OF CONTRACT	SUB- CONTRACTOR'S NAME	CONTRACTOR LICENSE NO.	DIR REG NO.	BUSINESS ADDRESS (CITY, STATE)

SECURITY FOR COMPENSATION CERTIFICATE

(Required by California Labor Code Section 1861)

TO: City Council
City of Roseville

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.

(Printed Name of Company)

(Signature of Bidder)

Business Address

Telephone

BIDDER'S BOND

City Council of the City of Roseville

KNOW ALL MEN BY THESE PRESENTS:

That we _____,
_____, as PRINCIPAL, and

_____,
a, _____ and duly authorized to transact business
under the laws of the State of California, as SURETY, are held and firmly bound unto the City of
Roseville in the penal sum of _____ dollars
(\$ _____), being at least TEN PERCENT (10%) OF THE TOTAL AMOUNT
OF THE BID of the Principal above named, submitted by said Principal to the City of Roseville,
acting by and through the Public Works Director, for the work described below, for the payment
of which sum in lawful money of the United States, well and truly to be made, to the Director of
the Department to which said Bid was submitted, we bind ourselves, our heirs, executors,
administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH,

That whereas the Principal has submitted the above-mentioned Bid to the City Council of
the City of Roseville, as aforesaid, for certain construction specifically described as follows, for
which Bids are to be opened at the Office of the City Clerk located at 311 Vernon Street,
Roseville, California, on _____, 20__ FOR

(Copy here the exact title of work as it appears on the Proposal.)

NOW, THEREFORE, IF THE AFORESAID PRINCIPAL is awarded the Contract and, within the time and manner required under the Contract Documents, after the prescribed forms are presented for signature, enters into a written Contract, in the prescribed form, in accordance with the Bid, and files all insurance and two (2) Bonds with the Department, one (1) to guarantee Faithful Performance and the other to guarantee Payment for Labor and Materials, as required by law, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this _____ day of _____, 20____.

_____(Seal)

_____(Seal)

_____(Seal)

Principal

_____(Seal)

_____(Seal)

_____(Seal)

Surety

Business Address

NOTE: To be considered complete, both the Principal and the Surety must sign this Bidder's Bond. In addition, signatures of those executing for the Surety must be properly acknowledged.

Aquifer Storage and Recovery – Monitoring Wells Project

Name of Bidder: _____

SCHEDULE OF BID ITEMS

BID ITEM	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE (\$)	TOTAL AMOUNT (\$)
1	Mobilization/Demobilization	LS	1		
2	Site to Site Mobilization	LS	7		
3	NOT USED	-	-	-	-
4	8-inch Diameter Pilot Hole Drilling	LF	4,000		
5	Geophysical (E-Logs)	LS	8		
6	14-inch Diameter Reaming	LF	1,500		
7	12-inch Diameter Reaming	LF	1,200		
8	8-inch Diameter Reaming/Hole Cleanout	LF	900		
9	2.5" Dia. SCH 80 PVC Well Casing	LF	7,080		
10	2.5" Dia. SCH 80 PVC Well Screen, 0.032 slot	LF	480		
11	Borehole Seals	LF	2,260		
12	Gravel Envelope	LF	1,200		
13	Sanitary Seal	LF	160		
14	Well Development – Bailing and Surging / Air Lifting	HR	128		
15	Furnish and Install Test Pumps	LS	8		
16	Pump Development	HR	128		
17	Borehole Destruction	LF	1,250		
18	Furnish and Install Enclosures, Pads, and Bollards	LS	8		
19	Thin-down Water, Development Water, and Mud Disposal	LS	8		
20	Drill Cuttings Disposal	LS	8		
21	Standby	HR	16		

GRAND TOTAL BID PRICE (\$) = _____

Grand Total Bid Price in Words: _____

The Grand Total Bid Price must be filled in and completed in figures and written in words above. In case of discrepancy between words and figures of the Grand Total Bid Price, the words shall prevail.

The Grand Total Bid Price is for the completed Work and includes any and all sales taxes and levies, which may be applicable. The undersigned has examined the location of the proposed Work and is familiar with the Specifications and the local conditions at the place where the Work is to be done. The undersigned has checked the above amount and understands that the Owner will not be responsible for any errors or omissions on the part of the undersigned in making up this proposal.

Bidder has examined copies of all the Contract Documents including the following addenda (receipt of all of which is hereby acknowledged):

Addendum Number	_____	Date	_____
	_____	Date	_____
	_____	Date	_____
	_____	Date	_____

Failure to acknowledge addenda shall render the bid non-responsive and shall be cause for its rejection.

It is agreed that this proposal may not be withdrawn within a period of sixty (60) days after the date set for the opening thereof.

The undersigned understands that the Owner reserves the right to reject any or all bids and to waive any informality in bids received that in the judgment of the Owner is to the best interest of the Owner.

Respectfully submitted,

_____ Signature of Bidder	_____ Title	_____ Date
_____ Company		
_____ Business Address	_____ Phone Number	
_____ License Number	_____ Expiration Date	

END OF SCHEDULE OF BID ITEMS

NONCOLLUSION DECLARATION TO BE EXECUTED BY
BIDDER AND SUBMITTED WITH BID

The undersigned declares:

I am the _____ of _____, the party
making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham bid. The Bidder has not directly or indirectly colluded, conspired, connived, or agreed with any Bidder or anyone else to put in a sham bid, or to refrain from bidding. The Bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the Bidder or any other Bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other Bidder. All statements contained in the bid are true. The Bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a Bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the Bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____
[date], at _____[city], _____[state].

(Signature of Declarant)

DISQUALIFICATION QUESTIONNAIRE

The Bidder shall complete, under the penalty of perjury, the following questionnaire:

Has the Bidder, any officer of the Bidder, or any employee of the Bidder who has proprietary interest in the Bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes _____ No _____

If the answer is yes, explain the circumstances in the following space.

NAME OF BIDDER: _____

SIGNATURE OF BIDDER: _____

TITLE OF BIDDER: _____

DATE: _____

ACKNOWLEDGEMENT OF INSURANCE AND BOND REQUIREMENTS

Included in the Bid Price is full compensation for the requirements set forth in the
INSURANCE BROKER INFORMATION PACKET of the Project Manual.

NAME OF BIDDER: _____

SIGNATURE OF BIDDER: _____

TITLE OF BIDDER: _____

DATE: _____

DISCLAIMER OF WARRANTIES AND ACCURACY OF DATA

Although soil and site investigation reports have been obtained from sources believed to be reliable, no warranty expressed or implied is made regarding accuracy, adequacy, completeness, legality, reliability or usefulness of any information contained therein. These reports are subject to change at any time, may be incomplete, and/or may contain errors. This information is provided for informational purposes only. The City of Roseville provides this information on an “as is” basis. Warranties of any kind, express or implied, or statutory, including but not limited to the implied warranties of merchantability, and fitness for a particular purpose ARE DISCLAIMED to any party viewing these documents or to any third party.

The City of Roseville does not accept and expressly disclaims liability to any party viewing such information, or to any third party whatsoever, for any loss, damage, or injury (including incidental or consequential damages) whether such loss, damage, or injury is the result of negligence, willful or intentional misconduct, or any other cause.

I have read and acknowledged the above disclaimer and agree to hold harmless the City of Roseville on any theory of liability for any loss, damage or injury whether in contract, strict liability or tort arising in any way out of the use or contents of the released information or documents described above or the performance of the work called for herein.

Print Name Signature

Name of Business/Company/Corporation

Address

Date

Phone

A G R E E M E N T

THIS AGREEMENT, is made and entered into this _____ day of _____, 20____, by and between the City of Roseville, a municipal corporation, (“CITY”), and _____, a _____, (“CONTRACTOR”); and

W I T N E S E T H:

WHEREAS, the City Council of the CITY, at a meeting held on the _____ day of _____, 20____, approved plans and specifications for the:

Aquifer Storage and Recovery – Monitoring Wells Project

and directed the City Clerk to advertise for sealed proposals for doing said work and providing that bids be submitted on the 9th day of June, 2020; and

WHEREAS, the City Clerk, thereafter duly and regularly caused a notice to be published in the manner and for the time prescribed by law; and

WHEREAS, CONTRACTOR, pursuant to the provisions of said notice duly filed a bid with the City Clerk, a true copy of which bid is now on file in the office of the City Clerk, and is hereby referred to and by this reference made a part hereof as fully as if set forth at length herein; and

WHEREAS, all bids received pursuant to said notice were opened and examined and publicly declared at the time specified in said advertisement for bids and at a meeting of the City Council held on the _____ day of _____, 20____, the Council found and declared the bid of CONTRACTOR to be the lowest responsible bid and thereupon awarded a contract to CONTRACTOR to do the work referred to in the aforementioned specifications.

NOW, THEREFORE, the parties agree as follows:

1. THE WORK. CONTRACTOR agrees:

a. To do the work and furnish all the labor, materials, tools, supplies, equipment, superintendence, insurance, and bonds required for the _____

in accordance with the Contract Documents (the Work).

b. To do and perform the Work contemplated hereby in a good and workmanlike manner under the direction of and to the satisfaction of the Director of Public Works of the City of Roseville.

2. PAYMENT. CITY shall pay CONTRACTOR _____ dollars (\$ _____) for the Work to be done under this Agreement in accordance with the Contract Documents.

3. CONTRACT DOCUMENTS. The complete Agreement between the parties hereto consists of the following documents:

a. The advertisement for bids (including the Notice to Bidders, Instructions to Bidders and Proposals);

b. The accepted bid;

c. Plans and specifications (including general conditions, supplemental conditions, special provisions and construction details);

d. Bonds and insurance required by the specifications; and

e. This contract.

All documents specified above are intended to operate so that any work called for in any one and not mentioned in the other, or vice versa, is to be executed the same as if

mentioned in all said documents.

4. LIQUIDATED DAMAGES. In the event CONTRACTOR does not complete the

Work within the time specified, CONTRACTOR agrees that CITY will suffer damages.

Inasmuch as the actual damages which would result from such breach by CONTRACTOR under this Agreement are uncertain, and would be impractical or extremely difficult to fix,

CONTRACTOR agrees that it shall pay, or CITY shall deduct from CONTRACTOR's fee, the amount of \$1,000 per day as liquidated damages, in the event of such delay.

5. TIME OF COMPLETION. Time is of the essence of this Agreement.

CONTRACTOR shall complete all Work under the Contract Documents within 120 Days of the date of this Contract. CONTRACTOR shall begin work by the date specified in the "Notice to Proceed" letter and shall diligently prosecute all of the Work under this Contract in all parts and requirements as defined in the Contract Documents.

6. SERVICE OF NOTICE. Any notice required or permitted to be given under this Agreement shall be deemed given when (a) personally delivered to the recipient identified below; (b) mailed by registered or certified mail, return receipt requested, postage pre-paid, to the address specified below; or (c) sent by facsimile, with confirmation of receipt, to the facsimile number identified below.

CITY OF ROSEVILLE

CONTRACTOR

CITY may also act through either its architect or construction manager if CITY expressly gives notice to CONTRACTOR, in writing, that CITY's designee has authority to act for CITY in a specific capacity.

7. DISPUTES. Disputes arising from this Agreement will be determined in accordance with the Contract Documents and Public Contract Code Sections 10240-10240.13.

8. GOVERNING LAW. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

9. INDEPENDENT CONTRACTOR. CONTRACTOR shall act as an independent contractor, and covenants and agrees that it will conduct itself consistent with such status, that it will neither hold itself out as, nor claim to be, an officer or employee of CITY by reason of this Agreement.

10. SUCCESSORS IN INTEREST. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.

11. MODIFICATION. This Agreement and each provision contained herein may be waived, amended, supplemented or eliminated only by mutual written agreement of the parties.

12. SEVERABILITY. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.

13. INTEGRATED AGREEMENT. This is an integrated agreement and contains all of the terms, considerations, understanding and promises of the parties. It shall be read as a whole.

14. CONTRACTORS LICENSE LAW. CONTRACTORS ARE REQUIRED BY LAW TO BE LICENSED AND REGULATED BY THE CONTRACTORS' STATE LICENSE

BOARD WHICH HAS JURISDICTION TO INVESTIGATE COMPLAINTS AGAINST CONTRACTORS IF A COMPLAINT REGARDING A PATENT ACT OR OMISSION IS FILED WITHIN FOUR (4) YEARS OF THE DATE OF THE ALLEGED VIOLATION. A COMPLAINT REGARDING A LATENT ACT OR OMISISON PERTAINING TO STRUCUTRAL DEFECTS MUST BE FILED WITHIN TEN (10) YEARS OF THE DATE OF THE ALLEGED VIOLATION. ANY QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR, CONTRACTORS' STATE LICENSE BOARD, P.O. BOX 26000, SACRAMENTO, CALIFORNIA 95826.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this Agreement in duplicate by its City Manager and attestation by its City Clerk under authority of Resolution No., adopted by the Council of the City of Roseville on the _____ day of _____, 20_____, and CONTRACTOR has caused this Agreement to be duly executed.

CITY OF ROSEVILLE, a
Municipal Corporation

_____, a

BY: _____
DOMINICK CASEY
City Manager

BY: _____
its: _____

and

ATTEST:

BY: _____
its: _____

BY: _____
SONIA OROZCO
City Clerk

APPROVED AS TO FORM:

BY: ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____

Print Name: _____

Title: _____

INSURANCE BROKER INFORMATION PACKET

Project: AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT

NOTICE TO CONTRACTOR:

For your convenience, this package contains the Requirements for Insurance and Bonds for this project, including the necessary City forms. You are required to return these forms in addition to the executed Contract within fifteen (15) calendar days after the award of the Bid, unless otherwise directed by City in writing. (See the Instructions to Bidders.)

Please insert the dollar amount of your accepted Bid into the blank on page INS-1 and present this entire package to your insurance broker if you are awarded the Bid.

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NOTICE TO INSURANCE BROKER

Your client has been awarded a bid by the City Council of the City of Roseville to perform a public works project known as AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT. The Contract Conditions for that project require your client (“the Contractor”) to return certain evidence of insurance and bonds to the City Attorney of the City within fifteen (15) days after the Bid award, unless otherwise directed by the City in writing, or else the Bid award may be terminated and awarded to another company.

This package contains the information you will need as an insurance broker to provide the appropriate insurance and bonds to the City. The insurance coverages the Contractor needs are specified in the section entitled “Insurance Requirements.” Please note that, in addition to the insurance certificate itself, copies of several endorsements must be actually furnished.

Please refer to the Supplemental Conditions for modifications of the General Conditions, if any, and the requirements of this insurance packet.

Please use the standard City of Roseville Bond Forms provided in this package.

The Bonds required must each be in the penal amount of: \$ _____

Bonds must be sent to the following staff person:

Jason Marks
2005 Hilltop Circle
Roseville, CA 95747

Insurance documents must be provided using one of the following methods:

- a. By email to roseville@ebix.com and riskmanagement@roseville.ca.us
- b. By fax to (770) 335-5727 and (916) 774-5461

After using one of these methods, please **DO NOT** send the insurance certificate(s) by mail.

When forwarding the documents, please refer to the project name so that the documents can be matched with the Contract for which they are submitted.

Thank you.

INSURANCE REQUIREMENTS

The following sections are quoted from the General Conditions:

5-1.23 INSURANCE COVERAGE.

A. Evidence of Maintenance Required. The Contractor shall, at its expense, procure and at all times maintain in full force and effect at a minimum the insurance required by this section on all of its operations; and the Contractor shall not allow any Subcontractor to commence work until similar insurance required of the Subcontractor has been obtained and filed. An original Certificate of Insurance, and copies of all required endorsements, all in a form approved by the Risk Manager, evidencing all required coverage or policies shall be filed after the award of the bid and prior to approval of the Contract by the City Council. Contractor shall provide ten (10) days prior written notice to the City of any reduction of coverage limits or cancellation of the coverage or policies shall be given to the City of Roseville as Certificate holder.

B. Qualifying Insurers. With the exception of the State Compensation Insurance Fund, all required insurance policies shall be issued by companies acceptable to the City and licensed to do business in the State of California and who hold a current policy holders alphabetic and financial size category rating of not less than AVII according to the most recent issue of Best's Insurance Reports.

C. Insurance Required.

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, including products and completed operations with limits of no less than Two Million Dollars (\$2,000,000) per occurrence for bodily injury, personal injury and property damage for projects under One Million Dollars (\$1,000,000) and

limits of no less than Five Million Dollars (\$5,000,000) per occurrence for bodily injury, personal injury and property damage for projects over One Million Dollars (\$1,000,000). If a general aggregate limit applies, either the aggregate limit shall apply separately to this project or the general aggregate limit shall be twice the required occurrence limit.

The Commercial General Liability insurance shall include the following, copies of which shall be provided:

a. Inclusion of the City of Roseville, and its officers, agents, employees, and volunteers, as additional insureds (except for workers' compensation) as respects services or operations under the Contract. The additional insured endorsement for the general liability policy shall be at least as broad as the ISO CG 2010 10 01 combined with ISO CGL Endorsement CG 2037 10 01. Any other endorsement must be approved in writing by the City. Endorsements must include coverage for on-going and completed operations, which coverage shall be maintained for four (4) years following completion of the Project. Endorsements shall cover the City of Roseville, its officers, agents, employees, and volunteers.

b. The insurance shall provide coverage for claims by one insured against another insured and the policies shall not contain any cross-suits exclusions, cross-liability exclusions, or insured versus insured exclusions. The policies shall not contain any classification exclusions purporting to deny coverage for any work to be performed by Contractor or any of its Subcontractors.

c. Stipulation that the insurance is primary and noncontributory, as evidenced by a separate endorsement (CG 20 01 04 13 or an equivalent) or section of the policy, and that neither the City nor its insurers will be called upon to contribute to a loss.

d. Such insurance shall specifically cover the contractual liability of the Contractor.

e. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds.

Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.

f. Waiver of subrogation endorsement.

g. The Contractor shall furnish a certificate for the period covered.

2. Automobile Liability: Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), or if Contractor has no owned autos, Code 8 (hired) and Code 9 (non-owned), with limits of no less than One Million Dollars (\$1,000,000) per accident for bodily injury and property damage.

3. Workers' Compensation: In accordance with the provisions of the California Labor Code, Contractor is required to be insured against liability for Workers' Compensation or to undertake self-insurance. Statutory Workers' Compensation and Employers' Liability of at least One Million Dollars (\$1,000,000) shall cover all Contractors staff while performing any work incidental to the performance of this Agreement.

4. Professional Liability: Professional Liability (Errors and Omission) Insurance appropriate to Contractor's profession, with a limit of liability not less than One Million Dollars (\$1,000,000) per occurrence or claim and Two Million Dollars (\$2,000,000) aggregate to cover all design and engineering services rendered by Contractor pursuant to the Agreement. Coverage must commence from the first day that Contractor or any of its Subcontractors provided any design or engineering services in connection with the Project.

5. Builder's Risk/Course of Construction Insurance Is Required by Risk

Management: The Contractor shall be responsible for all loss, damage or destruction whatsoever to the work called for by this Contract until the approval of a Notice of Completion or acceptance of the Work if no Notice of Completion is to be recorded.

The Contractor shall secure "All Risk" type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the work performed under this Contract (the value is presumed to be the Contract amount unless otherwise stated in Supplemental Conditions) and all materials, equipment, or other items to be incorporated therein while the same are located at the construction site, a bonded warehouse, or its place of manufacture. At any time, the policy shall cover the value of the work completed. The policy shall cover hazards including the losses due to fire, explosion, hail, rain, lightning, flood (separate insurance as needed), vandalism, malicious mischief, wind, collapse, aircraft, and smoke.

The policies providing such insurance shall name the City as a loss payee as its respective interests may appear, and certified copies of such policies shall be filed with the City. The maximum deductible allowable under the Builder's All Risk policy shall be five percent (5%) of the Contract amount.

Builder's Risk Insurance is not required for coverage of losses in excess of five percent (5%) of the Contract amount for damages resulting from earthquake in excess of a magnitude of 3.5 on the Richter scale, or tidal waves. Coverage in the amount of five percent (5%) of the Contract amount for such losses is required.

6. Pollution Coverage: Contractor shall procure pollution liability coverage or other insurance covering claims for bodily injury or property damage arising out of the abatement, removal, storage, transportation, or other exposure to hazardous materials or pollutants, in limits

not less than Two Million Dollars (\$2,000,000). Contractor shall add the City and all parties required to be indemnified by Contractor as additional insured on all pollution liability policies.

7. **Higher Coverage Limits:** If Contractor maintains higher coverage limits than the amounts shown above, then the City requires and shall be entitled to coverage for the higher coverage limits maintained by Contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City.

8. **Claims Made Coverage:** Liability insurance coverage may not be written on a “claims made” or modified occurrence basis. The Certificate of Insurance must clearly provide that the coverage is on an “occurrence” basis.

5-1.24 OTHER INSURANCE PROVISIONS.

A. The requirements of the Standard Specifications as to types and limits of insurance coverage to be maintained by the Contractor, and any approval of insurance by the City, are not intended to, and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Contractor pursuant to the Contract, including, but not limited to, the provisions concerning indemnification, nor preclude the City from taking any other action available to it under any other provision of the Contract or law.

B. The City acknowledges that some insurance requirements contained in these Standard Specifications may be fulfilled by self-insurance on the part of the Contractor. However, this shall not in any way limit liabilities assumed by Contractor under the Contract. Any self-insurance must be approved in writing by the City, in its sole discretion and shall not reduce the limits of liability. Any deductibles or self-insured retentions (“SIR”) must be declared on the certificate of insurance and approved by City in writing. Policies containing any

SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.

C. The Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Contract, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor's work. Furthermore, the Contractor shall require its subcontractors to agree to be bound to the Contractor and the City in the same manner and to the same extent as the Contractor is bound to the City under this Contract. Additionally, the Contractor shall obligate its subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of the City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request. Alternatively, the Contractor may insure subcontractor(s) under its own policy.

D. The City, its officers, agents, employees, and volunteers are to be covered as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the Contractor; and with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts or equipment furnished in connection with such work or operations. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Insurance Code Section 11580.04.

E. The limits of insurance required in this Contract may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a

provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of the City (if agreed to in a written contract) before the City's own insurance shall be called upon to protect it as a named insured.

F. The insurance procured by Contractor shall be subject to the approval of the City, but any acceptance of insurance certificates by the City shall in no way limit or relieve Contractor of its duties and responsibilities under the Agreement.

G. Contractor shall be responsible for all premiums, deductibles, and self- insured retention applicable to the insurance it is required to procure under the Contract. All deductibles or self-insured retentions over five hundred thousand dollars (\$500,000) must be approved by the City, in writing. Contractor shall be responsible for all deductibles, self-insured retention payments, and/or increased premiums incurred if the City's policies of insurance are forced to cover damages or respond to claims for which Contractor or its Subcontractors were obligated to provide insurance under the Contract.

H. Failure of the City to enforce in a timely manner any of the requirements of these insurance provisions shall not act as a waiver to enforcement of any of these provisions at a later date.

I. Contractor's indemnity obligations shall not be limited by these insurance provisions and shall survive the expiration of the Contract and the insurance provisions of the Contract shall likewise not be limited by the indemnity provisions of the Contract.

J. THE CITY RESERVES THE RIGHT TO WITHHOLD ANY PROGRESS PAYMENTS TO THE CONTRACTOR IN THE EVENT OF NONCOMPLIANCE WITH ANY INSURANCE REQUIREMENTS.

Bond No.	_____
Premium \$	_____

PUBLIC WORKS FAITHFUL PERFORMANCE BOND
AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT

WHEREAS, the City of Roseville (“CITY”) has awarded a bid and contract to

as contractor (“PRINCIPAL”) for the public work described as AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT (the “WORK”). The contract (“AGREEMENT”), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

WHEREAS, the PRINCIPAL is required to furnish a bond in connection with the AGREEMENT guaranteeing its faithful performance; and

NOW, THEREFORE, we the undersigned PRINCIPAL and _____, a _____, admitted and duly authorized to transact business under the laws of the State of California, as SURETY (“SURETY”), are held and firmly bound unto the CITY or its successors and assigns in the sum of _____ dollars (\$ _____) (which amount is not less than 100% of the AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns jointly and severally, firmly by these presents.

The condition of this obligation is such that if the PRINCIPAL, or its heirs, executors, administrators, successors or assigns, shall abide by, and in all respects promptly and faithfully perform the covenants, conditions and provisions in said AGREEMENT and any alteration thereof made as therein provided, notice of which alterations to Surety being hereby waived, on its part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless

CITY, its officers, agents, employees, volunteers as therein stipulated, then this obligation shall be null and void; otherwise, this obligation shall be and remain in full force and effect.

As condition precedent to the satisfactory completion of the contract, the obligation of the PRINCIPAL and SURETY under this Bond shall remain in effect for a period of one (1) year after the completion and acceptance of the WORK. During that time, if the PRINCIPAL, its heirs, executors, administrators, successors or assigns fails to make full, complete and satisfactory repair and replacement or totally protect the CITY from any loss or damage made evident during that year which results from or is caused by either defective materials or faulty workmanship in the prosecution of the WORK, then the obligation shall remain in full force and effect. However, anything in this paragraph to the contrary notwithstanding, the obligation of the SURETY shall continue so long as any obligation of the PRINCIPAL remains.

No prepayment or delay in payments, and no change, extension, addition or alteration of any provision of the AGREEMENT or in the specifications agreed to between the PRINCIPAL and the CITY, or any forbearance on the part of the CITY shall operate to relieve the SURETY. The SURETY hereby waives the provisions of Section 2819 of the California Civil Code. The SURETY waives all rights of subrogation against the CITY or any person employed by the CITY. If the contract price increases by the issuance of change orders, the amount specified in this bond shall increase by the same amount.

Whenever PRINCIPAL shall be and declared by CITY to be in default under the AGREEMENT, SURETY shall promptly remedy the default, or shall promptly do one of the follow at CITY's election:

1. Undertake through its agents or independent contractors, reasonably acceptable to CITY, to complete the AGREEMENT in accordance with its terms and conditions and to pay and perform all obligations of PRINCIPAL under the AGREEMENT, including without limitation, all obligations with respect to warranties, guarantees, and the payment of liquidated damages.
2. Reimburse CITY for all costs CITY incurs in completing the AGREEMENT, and in correcting,

repairing or replacing defects in materials or workmanship and/or materials and workmanship which do not conform to the specifications in the AGREEMENT.

SURETY's obligations hereunder are independent of the obligations of any other surety for the performance of the AGREEMENT, and suit may be brought against SURETY and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing CITY's rights against the others.

No right of action shall accrue on this bond to or for the use of any person or corporation other than CITY or its successors or assigns.

As part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees, including reasonable attorneys' fees, incurred by CITY in successfully enforcing such obligation, all to be taxed as costs and included in any judgment rendered.

[SIGNATURES NEXT PAGE]

IN WITNESS WHEREOF, this instrument has been duly executed by the PRINCIPAL and SURETY above-named, on the _____ day of _____, 20__

PRINCIPAL:

SURETY:

BY: _____

BY: _____

PRINT NAME: _____

PRINT NAME: _____

PRINT TITLE: _____

PRINT TITLE: _____

AND

MAILING ADDRESS:

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

***(Notarization by Surety and copy of
Power of Attorney required.)***

APPROVED AS TO FORM:

BY: _____
City Attorney

Bond No. _____
Premium \$ _____

**PUBLIC WORKS
LABOR AND MATERIALS PAYMENT BOND**

(Project: AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT)

WHEREAS, the City of Roseville (“CITY”), has awarded a bid and contract to

_____ as contractor (“PRINCIPAL”), for the public work described as AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT (the “WORK”). The contract (“AGREEMENT”), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

WHEREAS, the PRINCIPAL is required to furnish a bond in connection with the AGREEMENT guaranteeing payment of persons who provide labor and material; and

NOW, THEREFORE, we the undersigned PRINCIPAL and _____

_____, a _____, admitted and duly authorized to transact business under the laws of the State of California, as SURETY (“SURETY”), are held and firmly bound unto the CITY or its successors and assigns in the sum of _____ dollars (\$ _____) (which amount is not less than 100% of the AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns jointly and severally, firmly by these presents.

The condition of the obligation is such that if the PRINCIPAL, its subcontractors, heirs, executors, administrators, successors or assigns fails to pay any of the persons named in Section 8004 or 9100 of the Civil Code of the State of California, or the amounts due under the Unemployment Insurance Code of the State of California, or any amounts required to be deducted, withheld and paid over to the Employment Development Department from the wages of employees of the PRINCIPAL and its subcontractors pursuant to Section 13020 of the Unemployment Insurance Code, with respect to work or labor performed by any such claimant, that the SURETY will pay for the same, in an amount not exceeding the sum specified in this bond, and also, in case suit is brought upon the bond, shall pay reasonable attorneys’ fees, to be fixed by the Court.

This bond shall inure to the benefit of any and all persons, companies, and corporations entitled to file a Stop Payment Notice pursuant to the provisions of Section 9350 et seq. of the Civil Code of the State of California, so as to give a right of action to

them or their assigns in any suit brought upon this bond. No prepayment or delay in payments, and no change, extension, addition or alteration of any provision of the AGREEMENT or in the specifications agreed to between the PRINCIPAL and the CITY, or any forbearance on the part of the CITY shall operate to relieve the SURETY. The SURETY hereby waives the provisions of Section 2819 of the California Civil Code. The SURETY waives all rights of subrogation against the CITY or any person employed by the CITY. If the contract price increases by the issuance of change orders, the amount specified in this bond shall increase by the same amount.

As part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees, including reasonable attorneys' fees, incurred by CITY in successfully enforcing such obligation, all to be taxed as costs and included in any judgment rendered.

IN WITNESS WHEREOF, this instrument has been duly executed by the PRINCIPAL and SURETY above-named, on the _____ day of _____, 20__.

PRINCIPAL:

SURETY:

BY: _____

BY: _____

PRINT NAME: _____

PRINT NAME: _____

PRINT TITLE: _____

PRINT TITLE: _____

AND

MAILING ADDRESS:

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

*(Notarization by Surety and copy of
Power of Attorney required.)*

APPROVED AS TO FORM:

BY: _____
City Attorney

CITY OF ROSEVILLE

GENERAL CONDITIONS

FOR

BUILDINGS AND GROUNDS

GC

CITY OF ROSEVILLE GENERAL CONDITIONS FOR BUILDINGS AND GROUNDS

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SECTION 1 DEFINITIONS AND TERMS

1-1.01 **GENERAL.** When the following abbreviations and terms or pronouns in place of them appear in the Contract Documents, the intent and meaning shall be interpreted as provided in this Section 1.

1-1.02 **ACCEPTANCE.** Formal Acceptance by resolution by the Roseville City Council of the Contract when completed in all respects in accordance with the Contract Documents and any modifications previously approved.

1-1.03 **ADDENDUM.** Written interpretation or revision to any of the Contract Documents issued by the City before the bid opening.

1-1.04 **AS-BUILT DOCUMENTS, AS-BUILT DRAWINGS AND RECORD DOCUMENTS.** As-Built Documents, As-Built Drawings and Record Documents are all contract documents modified to reflect changes during the construction phase. Specifically, As-Built Documents/Drawings are a revised set of drawings submitted by the Contractor upon Final Completion of a project. They reflect changes made in the Specifications and Working Drawings during the construction process, and show the exact dimensions, geometry, and location of all elements of the work completed under the Contract. Record Documents, on the other hand, are compiled by the Engineer or Architect based on the As-Built Documents/Drawings submitted by the Contractor. They reflect the Engineer or Architect's concurring review of what changes were denoted, why they were made and where they occurred and create a record set of drawings.

1-1.05 **ASSESSMENT.** A cost imposed on the Contractor for non-compliance

with certain contractual requirements.

1-1.06 **BENEFICIAL OCCUPANCY.** The taking possession of a portion of the Work by the City for its use and/or occupancy on other than a temporary or emergency basis. 1-

1.07 **BID GUARANTY.** The cashier's, certified check, irrevocable standby letter of credit, deposit of securities, or Bidder's Bond, accompanying the bid submitted by the Bidder, as a guaranty that the Bidder will enter into an agreement with the City for the performance of the Work, if the Agreement is awarded to Bidder, and the Bidder will submit the required Contract Bonds and Certificate of Insurance. Also referred to as the Bidder's Security.

1-1.08 **BIDDER.** Individual, firm, partnership, limited liability company, corporation, joint venture, or any combination thereof, submitting a Proposal for the Work, acting directly, or through a duly authorized representative.

1-1.09 **BIDDING DOCUMENTS.** Includes the Notice to Bidders, Bidding Requirements, Contract Conditions, Drawings, and Addenda.

1-1.10 **CHANGE ORDER.** Any written order to the Contractor directing an addition, deletion, or modification of the Work, or an adjustment in the Contract Price or Contract Time provided in the Contract Documents and issued after the Agreement has been signed.

1-1.11 **CITY.** The City of Roseville.

1-1.12 **CITY ATTORNEY.** The City Attorney of the City.

1-1.13 **CITY CLERK.** The City Clerk of the City.

1-1.14 **CLAIM.** A separate demand by Contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following: (a) a time extension, including, without limitation, for relief for damages or penalties for delay assessed by

the City; (b) payment by the City of money or damages arising from work done by, or on behalf of, Contractor pursuant to the Contract Documents and payment for which is not otherwise expressly provided or to which Contractor is not otherwise entitled; and (c) payment of an amount that is disputed by the City.

1-1.15 **CONSTRUCTION SCHEDULE.** A list or graphic display of construction activities required for completing the Work, in a format required by the Contract Documents. The duration, start and finish date, and sequence of significant activities, critical path, float and milestones must be indicated in the Construction Schedule.

1-1.16 **CONTRACT OR AGREEMENT.** The written agreement relating to the Work to be performed, the labor, materials, and equipment to be furnished, and the payment to be made therefor. The Agreement/Contract is part of and incorporates all of the Contract Documents.

1-1.17 **CONTRACT CONDITIONS.** Includes the General Conditions, Supplemental Conditions, and Specifications.

1-1.18 **CONTRACT DOCUMENTS.** Includes those documents that form the basis of the Contract, including but not limited to, Bidding Documents, the Bid or Proposal, Contract Bonds, the Contract, all required insurance certificates or endorsements, all bonds, all required certifications or statements, Change Orders, any Contract Amendment, any City Standard which is incorporated by reference and these City of Roseville General Conditions for Buildings and Grounds.

1-1.19 **CONTRACT DRAWINGS.** The official drawings including plans, elevations, sections, detail drawings, diagrams, plated, General Notes, information and schedules thereon, or exact reproductions thereof, showing the location, character, dimension, and details

of the Work. The Contract Drawings include any drawings or plates bound within the Supplemental Conditions.

1-1.20 **CONTRACT PRICE.** The total compensation to be paid to the Contractor in accordance with the terms of the Agreement.

1-1.21 **CONTRACT TIME.** The number of Days, or portion thereof, allowed for completion of the Work, including all authorized time extensions. The effective date for commencement of the Work specified in the Notice to Proceed shall define the beginning of the Contract Time.

1-1.22 **CONTRACTOR.** Individual, firm, partnership, limited liability company, corporation, joint venture, or any combination thereof, who has entered into the Agreement with City.

1-1.23 **DAY OR DAYS.** Unless otherwise designated, Day or Days as used in the Contract Documents will be understood to mean calendar Day or Days.

1-1.24 **DEPARTMENT.** The Department for Contract Administration, as identified in the Supplemental Conditions.

1-1.25 **DIRECT COSTS.** Those cost items (including labor, materials, equipment and any subcontractor's work) that are used in the actual performance of, and are specifically and uniquely attributable to the Work or changed Work. Direct Costs do not include Overhead. Direct Costs only include the following:

A. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by City and Contractor. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include salaries and

wages plus the cost of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, sick leave, vacation and holiday pay applicable thereto. Such employees may include superintendents and foremen at the site. The expenses of performing work after regular working hours, on Saturday, Sunday or legal holidays shall be included in the above only to the extent authorized by City in writing.

B. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and suppliers' field services required in connection therewith. All trade discounts, rebates and refunds and all returns from sale of surplus materials and equipment shall accrue to City, and Contractor shall make provisions so that they may be obtained.

C. Payments made by Contractor to the subcontractors for work performed by subcontractors. If required by City, Contractor shall obtain competitive bids from subcontractors acceptable to Contractor and shall deliver such bids to City who will then determine which bids will be accepted. If a subcontract provides that the subcontractor is to be paid on the basis of cost of the work plus a fee, the subcontractor's cost of the work shall be determined in the same manner as Contractor's cost of the work. All subcontracts shall be subject to the other provisions of the Contract Documents insofar as applicable.

D. Costs of special consultants (including engineers, architects, testing laboratories, surveyors, and accountants) employed for services specifically, and only, related to the Work.

E. Supplemental costs including the following:

1. The proportion of necessary transportation, travel and subsistence

expenses of Contractor's employees incurred in discharge of duties connected with the Work.

2. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value of such items used but not consumed which remain the property of Contractor.

3. Rentals of all construction equipment and machinery and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by City, and the costs of transportation, loading, unloading, installation, dismantling and removal thereof, all in accordance with terms of said rental agreements. The rental of any such equipment, machinery or parts shall cease when the use thereof is no longer necessary for the Work.

4. Sales, consumer, use or similar taxes related to the Work, and for which Contractor is liable, imposed by laws and regulations.

5. The cost of utilities (including the meter and all associated installation costs), fuel and sanitary facilities at the site.

6. Cost of premiums for additional bonds and insurance required because of changes in the Work.

1-1-26 **DIRECTOR.** Director of the Department for Contract Administration or his or her designee.

1-1.27 **EMERGENCY.** Any sudden generally unforeseen occurrence (such as a fire, flood, storm, earthquake, civil disorder, or other natural and/or man-made disaster) that has the potential to adversely affect the safety of life, the Work, and/or adjacent property; to interrupt

contracts essential to the performance of the Work; and/or to cause catastrophic failure of City of Roseville, CA equipment and/or facilities.

1-1.28 **ENGINEER OR ARCHITECT.** Professional Engineer or Architect designated for a particular project responsible for signing and sealing the permit drawings, interpretation of the drawings where ambiguities exist, review of requests for information, design Change requests and Shop Drawings, resolution of errors and omissions, and finalization of Record Documents.

1-1.29 **FINAL COMPLETION.** When the project has been completed according to the terms and conditions set forth in the Contract Documents. Final Completion is not the same as Acceptance.

1-1.30 **FORCE ACCOUNT.** Payment by force account shall mean payment on the basis of the Contractor's time and materials.

1-1.31 **GENERAL NOTES.** The written instructions, provisions, conditions or other requirements appearing on the Contract Drawings and so identified thereon, which pertain to the performance of the Work.

1-1.32 **INSTALLATION, INSTALL.** Completely assembling, erecting, and/or connecting materials, parts, components, supplies, and related equipment specified or required for the completion of the Work.

1-1.33 **LABORATORY.** Established professional laboratories authorized by the City to test materials and Work involved in the Contract.

1-1.34 **LEGAL HOLIDAYS.** Those days designated as Federal holidays or declared by the City, or otherwise specified in the Contract Documents.

1-1.35 **LIQUIDATED DAMAGES.** The amount prescribed in the Contract

Documents to be paid to the City or to be deducted from any payments due or to become due the Contractor for each day's delay in completing the whole or any specified portion of the Work beyond the time allowed in the Supplemental Conditions.

1-1.36 **NOTICE OF COMPLETION.** A legal notice filed by the City with the Placer County Recorder's Office stating that construction has been completed and accepted by the City.

1-1.37 **NOTICE TO PROCEED.** A written notice given by the City to the Contractor fixing the date on which the Contract Time will commence to run.

1-1.38 **NOTICE OF TERMINATION.** Written notice from the City to the Contractor and/or its Surety terminating the Agreement, or a portion thereof, either for convenience of the City or for default due to the Contractor's failure to perform its contractual obligations.

1-1.39 **OVERHEAD.** Business or administrative expenses (including but not limited to office expenses, administrative staff, rent, insurance, utilities) not chargeable to a particular part of the Work. The term "Overhead" shall include all of the following:

- A. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor whether at the Work Site or in Contractor's principal or a branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications, all of which are to be considered administrative costs covered by the Contractor's fee.
- B. Expenses of Contractor's principal and branch offices other than Contractor's office at the site.

C. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.

D. Cost of premiums for all bonds and for all insurance whether or not Contractor is required by the Contract Documents to purchase and maintain the same, except as provided in section 1-1.25.

E. Other overhead or general expense costs of any kind.

1-1.40 **PREMISES.** Shall mean the area within construction easements, easements, rights of entry and City owned property which surrounds the Work Site, limited by the property lines thereof. In some cases Premises may coincide with the Work Site.

1-1.41 **PROFESSIONAL ENGINEER.** An engineer licensed by the Board of Registration for Professional Engineers, State of California.

1-1.42 **PROJECT MANUAL.** A book containing all Contract Documents.

1-1.43 **PROPOSAL FORMS.** The approved forms upon which the City requires that each Bidder submit its bid with regard to the Agreement.

1-1.44 **REQUEST FOR INFORMATION (RFI).** A document issued by the Contractor requesting information concerning the Contract Documents.

1-1.45 **SAFETY.** Includes the practice of identifying potential hazards, assessing their risk, taking corrective action where possible, including and providing control measures such as engineering design, written procedures, and the personal protective equipment for workers in order to eliminate or reduce the risk for exposure in the workplace.

1-1.46 **SCHEDULE OF VALUES.** The breakdown of the Contract Price that will serve as the basis for Contractor's Applications of Payment. Any lump sum bid item

included within the Contract Price will be apportioned among values relating to specific components of the Work covered by said lump sum.

1-1.47 **SHOP DRAWINGS.** Drawings, plans, diagrams, schedules, and other data specifically prepared and submitted to the City by the Contractor, showing in detail: (a) the proposed fabrication and assembly of a special component of the Work; and (b) the Installation (form, fit and attachment details) of a special component of the Work. Shop Drawings shall be deemed to include Working Drawings, Product Data, literature, and applicable performance and test data.

1-1.48 **SPECIFICATIONS.** The technical Specifications for the Work prepared by the Director or an Engineer or Architect describing in detail the nature of the Work, its components, any performance standards, and how the Work is to be constructed.

1-1.49 **SUBCONTRACTOR.** Any individual, firm, partnership, limited liability company, corporation, joint venture, or combination thereof, other than employees of the Contractor, engaged by the Contractor to furnish services, labor, equipment and materials for a portion of the Work.

1-1.50 **SUBMITTALS.** Those documents required to be submitted by the Contractor for review by the City in accordance with the Contract Documents.

1-1.51 **SUPPLEMENTAL CONDITIONS.** The Supplemental Conditions are specific clauses modifying or supplementing these General Conditions.

1-1.52 **SUPPLIER.** Any individual, firm, partnership, limited liability company, corporation, joint venture, or combination thereof, other than employees of the Contractor, that supplies a tangible product as a portion of the Work, with services usually limited to delivery and/or required testing, and with manufacturing, fabrication, or production facilities located off

the Work Site.

1-1.53 **WORK.** The furnishing of all labor, and the furnishing and Installing of all materials, articles, supplies and equipment as specified, designated, or required by the Contract Documents.

1-1.54 **WORK SITE.** All or portion of the Premises that the Work is limited to as shown on the Contract Drawings or designated by the Director. Public streets are not included unless Work is being done within the street right-of-way.

1-1.55 **WORKING DRAWINGS.** Original drawings prepared by the Contractor and/or its Subcontractors or Suppliers, of any tier, illustrating Work required for construction that will not become an integral part of the completed Work. This includes, but is not limited to, drawings for temporary structures such as decking, bulkheads, excavation supports, utility support, groundwater control, forming, falsework, access roads, staging areas, staging plans, and diversion plans. A Working Drawing is one type of a Shop Drawing.

SECTION 2

CONTROL AND SCOPE OF THE WORK

2-1.01 **AUTHORITY OF DIRECTOR.** The Contract shall be performed in a manner satisfactory to the Director who shall decide all questions which may arise as to the quality or acceptability of materials furnished and Work performed and as to the manner of performance and rate of progress of the Work; all questions which may arise as to the interpretation of the Contract Documents; all questions as to the acceptable fulfillment of the Contract on the part of the Contractor; and all questions as to compensation. The Director shall have authority to enforce and make effective such decisions and orders in the event the Contractor fails to promptly carry out the same.

2-1.02 **INTENT OF CONTRACT DOCUMENTS.** The Contract Documents are complementary, and what is called for by one shall be as binding as if called for by all. The intent of the Contract Documents is to describe the details for the construction and completion of the Work. Where the Contract Documents describe portions of the Work in general terms, but not in complete detail, it is understood that only the best general practice shall be followed and that only materials and workmanship of the best quality are to be used. Any Work, materials, or equipment that are customarily provided, or that are reasonably inferable from the Contract Documents as being required to produce the intended result, shall be supplied, whether or not specifically called for. When words, which have a well-known technical or trade meaning are used to describe work, materials, or equipment, such words shall be interpreted in accordance with that meaning. Unless otherwise specified, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals, and do all the Work involved in executing the Contract in a

satisfactory and workmanlike manner.

Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, laws, or regulations in effect on the first published date of the Notice to Contractors, except as may be otherwise specifically stated. However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the Contract Documents) shall be effective to change the duties and responsibilities of City or Contractor, or any of their consultants, agents, or employees from those set forth in the Contract Documents, nor shall it be effective to assign to City, or City's designated representative, any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to other provisions of the Contract Documents.

The Contract Documents are divided into parts, divisions, sections and articles for convenience, organization and reference. Generally, there has been no attempt to divide the Specifications sections into work performed by the various building trades, work by separate Subcontractors, or work required for separate facilities in the project.

2-1.03 **EXAMINATION AND VERIFICATION OF CONTRACT**

DOCUMENTS. The Contractor shall thoroughly examine and become familiar with all of the various parts of the Contract Documents and shall determine the nature and location of the Work, the general and local conditions (including applicable laws) and all other matters which can in any way affect the cost, progress or performance of the Work under this Agreement. Failure to make an examination necessary for this determination shall not release the Contractor from the obligations of the Agreement. No oral agreement or conversation with any officer, or employee

of the City, or with the City's designated representative either before or after the execution of the Agreement, shall affect or modify any of the terms or obligations contained in the Contract Documents.

2-1.04 **CONTRACT DRAWINGS.** The Contract Drawings consist of general drawings and show such plans, elevations, sections, details and schedules as are necessary to give a graphic and pictorial description of the contemplated construction. All authorized alterations affecting the requirements and information given on the Contract Drawings shall be in writing.

2-1.05 **COORDINATION AND INTERPRETATION OF CONTRACT**

DOCUMENTS. All Contract Documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary, and to describe and provide for a complete Work.

In the event of inconsistencies between requirements contained in different components of the Contract Documents, the precedence of the Contract Documents shall be as follows to resolve conflicts:

1. Change Orders
2. The Contract (including Addenda)
3. The Supplemental Conditions
4. Specifications
5. Contract Drawings
6. The General Conditions

Should it appear that the Work to be done or any of the matters relative thereto are not sufficiently detailed or explained in the Contract Documents, the Contractor shall submit a

Request for Information (“RFI”) to the Director for such further explanations as may be necessary and shall conform to the written explanation given as if part of the Contract Documents. The decisions of the Director shall be final.

Contractor shall anticipate that it will be necessary to prepare and submit RFIs regarding the Contract Documents. The City will respond to each RFI by no later than fourteen (14) Days after receipt of the RFI, unless the RFI is of significant complexity. Furthermore, in the event that there are numerous RFIs pending, Contractor shall cooperate with the City in establishing a priority for responding to the RFIs, and potentially some RFIs may be responded to beyond the fourteen (14) Day period.

Each RFI prepared by Contractor shall be full and complete. Contractor shall prepare RFIs so as to not cause any delay to the progress of the Work and to not cause any impact to Contractor’s labor productivity in the field. Contractor shall not assert any Claims for delay or interference against the City if Contractor fails to timely submit any RFI to the City, after consideration of the response period allowed for by the City.

The response to an RFI shall not, by itself, constitute a writing that authorizes Contractor to perform any Work that causes an adjustment to either the Contract Price or the Contract Time. If Contractor believes that any response to any RFI should constitute a compensable change, Contractor shall provide a Notice of Potential Claim as provided in Section 7-1.03, below. Contractor’s failure to provide the required written notice shall constitute a waiver of the Contractor’s right to seek a compensable change based on the RFI response.

The Contractor shall examine all Contract Documents; shall verify all figures in the Contract Documents before laying out the Work; shall promptly notify the City of all errors, inconsistencies, and/or omissions that it discovers; and, in instances where such non-

conformities are discovered, shall obtain specific instructions in writing from the City before proceeding with the Work. Contractor's performance of any Work affected by such non-conformities prior to the City's decision shall be at the Contractor's risk. Any Work that is customarily provided or that is reasonably inferable shall not relieve the Contractor from performing such work at no additional expense and/or delay, and such Work shall be performed as if fully set forth in the Contract Documents.

2-1.06 **INDEPENDENT CONTRACTOR STATUS.** The Contractor shall independently perform all Work required by the Contract Documents and shall not be considered as an agent or employee of the City, nor shall the Contractor's Subcontractors or employees be considered as subagents of the City.

The Contractor and Contractor's Subcontractors shall be licensed in accordance with the laws of the State of California and as more particularly described in the bidding documents or elsewhere in the Contract Documents.

2-1.07 **ORDER OF WORK.** When required by the Contract Documents, the Contractor shall follow the sequence of operations set forth therein. Full compensation for conforming to such requirements will be considered as included in the prices paid for the various Contract items of work, and no additional compensation will be allowed therefor.

2-1.08 **SUBMITTALS.** It shall be the Contractor's responsibility to timely submit, so as to cause no delay in the Work, all Shop Drawings, descriptive data, manuals, instructions, affidavits, samples for the various trades as required by the Supplemental Conditions and Specifications, and offers of alternatives, if any. Such Submittals shall be checked and coordinated by the Contractor with the Work of other trades involved before they are submitted to the Director for examination.

The Contractor shall deliver at least one (1) electronic copy of the Submittals to the Director, and one (1) hard copy if requested. Work requiring the submittal of working drawings, descriptive data or samples shall not begin prior to approval of said Submittal by the Director.

The time allowed for review of each Submittal will be as indicated in the Supplemental Conditions. Review time will start upon receipt of the Submittal by the Director and will end upon the Director's mailing of the Submittals to the Contractor. Defective, incomplete or partial Submittals will be returned to the Contractor unreviewed.

Submittals shall be made by a letter of transmittal that shall contain a list of all matter submitted and identification of all variations from the Contract Documents contained in the Submittal. The letter and all items accompanying the same shall be fully identified as to project name and location, Contractor's name, district, county, and Contract number, with ample cross-references to the Contract Documents, to facilitate identification of items and their location in the Work.

All Shop Drawings and supporting data, catalogs, schedules, shall be submitted as the instruments of the Contractor, who shall be responsible for their accuracy and completeness. These Submittals may be prepared by the Contractor, Subcontractors, or Suppliers, but the Contractor shall ascertain that Submittals meet all of the requirements of the Contract Documents, while conforming to structural, space, and access conditions at the point of Installation. The Contractor shall check all Submittals before submitting them to the Director.

2-1.08A **SHOP DRAWINGS.** The Contractor shall submit an electronic copy (searchable PDF) of all Shop Drawings required by the Supplemental Conditions or Specifications, and one (1) hard copy, if requested by the Director. Shop Drawings shall also be provided separately in AutoCAD format using the latest version of AutoCAD. An electronic

copy will be returned to the Contractor either approved for use, as demonstrated by a stamp, or returned for correction and resubmittal. Materials, colors and/or samples will not be returned to the Contractor. Shop Drawings include any drawing, which requires execution by a draftsman as distinguished from printed matter. The size of Shop Drawings shall not exceed twenty-four inches (24”) by thirty-six inches (36”).

2-1.08B **DESCRIPTIVE DATA.** The Contractor shall submit an electronic copy (searchable PDF) of each set of manufacturer's brochures or other data required by the Supplemental Conditions or Specifications, and one (1) hard copy, if requested by the Director. The City will examine such Submittals and return either an electronic copy or a hard copy approved for use or returned for correction and resubmittal.

2-1.08C **SAMPLES.** The Contractor shall submit samples of articles, materials or equipment as required by the Supplemental Conditions or Specifications. The Work shall be in accordance with the approved samples. Samples shall be removed from City property when directed or may be incorporated in the Work if approved by the Director. Samples not removed by the Contractor will become the property of the City or, at the City's option, will be removed or disposed of by the City at the Contractor's expense.

2-1.08D **MANUALS, INSTRUCTIONS AND AFFIDAVIT.**

- A. **Manuals and Instructions.** Where operation and maintenance manuals are required by the Supplemental Conditions, the Contractor shall submit two (2) sets of manuals, suitably bound, along with two (2) electronic copies in an approved format, to the Director within forty-five (45) Days after favorable review of the equipment or facilities. If operation and maintenance manuals are approved to be provided in PDF format, text shall be provided in searchable PDF format, making proper use of PDF for headings and heading levels,

paragraphs, tables, and lists. Submitted operation and maintenance manuals shall be a collected, organized, and indexed set of bookmarked PDF documents comprising each operation and maintenance manual that corresponds to a hardcopy binder. All manuals shall be marked to indicate the specific equipment furnished for this project and shall include at a minimum:

1. Equipment summary form
2. Cover/Title page
3. Table of contents
4. Operating procedures including start-up, shutdown, normal operation, all operating modes, emergency shutdown, and safety precautions
5. Lubrication instructions (if required)
6. Preventative maintenance procedures
7. Troubleshooting and corrective maintenance procedures
8. Reinstallation instructions
9. Overhaul instructions (if applicable)
10. Parts identification list with exploded view and associated cross references
11. Recommended spare parts list
12. Operator safety requirements
13. Electrical and control system wiring drawings, including panel wiring control (ladder) diagrams, logic diagrams, loop diagrams, and interconnection diagrams
14. Panel layout and assembly drawings

15. Mechanical drawings
16. Printouts of all software programs and configuration files

17. Factory and field test procedures and results

Operation and maintenance manuals for complex equipment shall also include:

18. Alternate specified operating modes
19. Emergency shutdown instructions
20. Normal shutdown instructions
21. Long term shutdown instructions

Operation and maintenance manuals for systems comprised of separate pieces of equipment shall include a system explanation of items 4, 7, 18, 19, 20, and 21 as well as the instructions for the separate pieces of equipment.

B. Affidavits. Where required in the Supplemental Conditions or

Specifications, manufacturers of equipment shall provide field service as a part of this project.

Equipment shall not be considered ready for full time operation until after the authorized factory-trained and qualified manufacturer's representative for the specific equipment has checked and adjusted the equipment and certified by written affidavit that the equipment has been properly Installed, tested, adjusted, lubricated, and calibrated, and is ready for full time operation.

Acceptable affidavits shall be submitted prior to completion of the Work. Affidavits shall contain the following specific wording:

“The (Name of Equipment) has been properly installed, tested, adjusted, lubricated, and calibrated, and is ready for full time operation. The installation has been inspected and has been found to be in conformance with our (the manufacturer's) standards and requirements.”

No amplification, dilution, or modification of this specific wording will be permitted.

2-1.08E **ALTERNATIVES.** For convenience in designation in the Contract Documents, certain materials, articles, or equipment may be designated by a brand or a trade name or the name of the manufacturer together with catalog designation or other identifying information, hereinafter referred to generically as “designated by brand name.” Except in those instances where the product is designated to match others in use in a particular improvement, either completed or in the course of completion, an alternative material, article, or equipment which is of equal quality and of the required characteristics for the purpose intended may be proposed for use provided the Contractor complies with the following requirements:

A. The Contractor shall submit its proposal for an alternative in writing. Such request shall be made in ample time to permit review and approval without delaying the Work. The Contractor shall not be entitled to an adjustment of the Contract Time or an increase in the Contract Price based on any Contractor-proposed substitution.

B. No such proposal will be considered unless accompanied by complete information and descriptive data, necessary to determine the equality of the offered materials. The Contractor shall satisfy the Director as to the comparative quality, suitability, or performance of the offered material, articles, or equipment. In the event that the Director rejects the use of such alternative materials, articles, or equipment, then one of the particular products designated by brand name shall be furnished.

C. The burden of proof as to the quality and suitability of alternatives shall be upon the Contractor and it shall furnish all information necessary as required by the Director. The Director shall be the sole judge as to the quality and suitability of alternative articles or materials and such decisions shall be final. Where use of an alternative material

involves redesign of, or changes to, other parts of the Work, the cost and time required to effect such redesign or changes will be considered in evaluating the suitability of the alternative material. Cost of redesign by the City will be borne by the Contractor.

D. Whenever classification, rating or other certification by a body such as Underwriters Laboratories (UL) or the National Electrical Manufacturers Association (NEMA) is a part of the specification for any material, Contractor's request for use of alternative articles or materials shall be accompanied by reports from the listed or equivalent independent testing Laboratory indicating compliance with the Contract Documents. The cost of all testing required to prove equality of the material proposed shall be borne by the Contractor. Approval of an alternative shall be only for the characteristics or use named in such approval, and shall not be used to change or modify any requirement of the Contract Documents.

E. At its election, the City reserves the right to consider any Contractor proposed substitution as a Cost Reduction Proposal under Section 3-1.07 of these General Conditions in the event that there is a significant savings resulting from the substitution.

The Director will examine, with reasonable promptness, such Submittals, and return of Submittals to the Contractor shall not relieve the Contractor from responsibility for deviations and alternatives from the Contract Documents, nor shall it relieve the Contractor from responsibility for errors in the Submittals. A failure by the Contractor to identify in its letter of transmittal material deviations from the Contract Documents shall void the Submittal and any action taken thereon by the Director. When specifically requested by the Director, the Contractor shall resubmit such Shop Drawings, descriptive data and samples as may be required.

If any mechanical, electrical, structural, or other changes are required for the proper Installation and fit of alternative materials, articles, or equipment, or because of deviations from

the Contract, such changes shall not be made without the approval of the Director and shall be made without additional cost to the City.

2-1.09 **DISPOSAL OF MATERIAL OUTSIDE THE WORK SITE.** Unless otherwise stated elsewhere in the Contract Documents, the Contractor shall, at its own cost and expense, make its own arrangements for disposing of materials outside the Work Site.

Except when material is to be disposed of at a landfill or recycling center, when any material is to be disposed of outside the Work Site, the Contractor shall first obtain written permission from the City to dispose of the material at the intended location. The City's approval will be contingent upon the Contractor obtaining a written permit from the property owner on whose property the disposal is to be made. Prior to the disposal of any material at the intended location, the Contractor shall submit such permit or a certified copy thereof to the City, together with a written release from the property owner absolving the City from any and all responsibility related to the disposal of material on said property.

Disposal of Hazardous Materials must be done in accordance with all laws and regulations. Copies of all required regulatory documentation including copies of final manifests shall be supplied to the City.

2-1.10 **ACCESS TO THE WORK.** The Contractor shall satisfy itself that the jurisdictions through which its operations and haul routes pass will permit such operations with respect to the type of vehicle, laden weights, frequency and dimensions of loads, hours of operation and required traffic control. All necessary permits, licenses or bonds shall be obtained and paid for by the Contractor.

2-1.11 **TEMPORARY UTILITIES.** The Contractor shall make its own arrangements with utility companies for any temporary services it may require in performance of

the Work and shall pay all costs of these services directly to these utility organizations.

2-1.12 **UTILITY FACILITIES.** The Contractor shall protect from damage

those utility facilities that are to remain in place, be Installed, relocated or otherwise arranged. The

Contractor's attention is directed to the possible existence of facilities not shown,

and of facilities in a location different from that, which is indicated. The Contractor shall take

steps to ascertain the exact location of all facilities prior to doing any Work, which may damage

such facilities or interfere with their service. Where the location of a facility is indicated or

inferred from the presence of visible facilities such as buildings, meters, and junction boxes, the

Contractor shall make such excavations and explorations as are necessary to ascertain the correct

location. Unless provided for elsewhere in the Contract Documents, the cost of such excavations

and explorations will be considered as a part of the cost of other items of Work and no additional

payment will be made. Such excavations and exploratory Work shall not entitle the Contractor

to an extension of time.

If the Contractor discovers underground facilities not indicated or inferred from the Contract Documents, the Contractor shall immediately give the Director written notification of

the existence of those facilities. The Contractor shall determine the exact location of the

underground facilities and the cost of the work will be paid for in accordance with the Contract

Documents. The underground facilities shall be protected from damage as directed by the

Director and the cost of that work will be paid for as extra work. The Contractor shall, if directed

by the Director, repair any damage, which may occur to the underground facilities. The cost of

that repair work, not due to the failure of the Contractor to exercise reasonable care, will be paid

for as extra work. Damage due to the Contractor's failure to exercise reasonable care shall be

repaired at the Contractor's cost and expense.

Where it is determined by the City that the rearrangement of an underground facility, the existence of which is not shown on the Contract Drawings, is essential in order to accommodate the Work, the City will provide for the rearrangement of such facility by other forces or, when so ordered by Change Order, such rearrangement shall be performed by the Contractor and will be paid for as provided under a Change Order.

The Contractor shall be responsible for the maintenance of all utility facilities placed by the Contractor in temporary locations, and all utilities within the construction area not required to be relocated but which are required to be shored or supported during the construction period. The cost of such maintenance shall be borne by the Contractor, and no other compensation shall be due the Contractor for this Work.

The cost of providing and maintaining all necessary or required temporary structures, of making any necessary repairs, replacements, or similar operations, or furnishing indemnity or other bonds, if required, and all costs required by this Section shall be paid by the Contractor and shall be included in the prices bid in the schedule for other items of work.

2-1.13 **PRESERVATION AND CLEANING.** The Contractor shall clean up the Work at frequent intervals and at other times when directed by the Director. While finish Work is being accomplished, floors, Work areas and finished areas shall be kept clean, free of dust, construction debris and trash. Upon completion of the Work, the Contractor shall remove from the Premises its construction equipment and any waste materials not previously disposed of, leaving the Premises thoroughly clean and ready for final inspection.

2-1.14 **LIMITATIONS ON WORK SITE AND PREMISES.** The Contractor shall limit its construction operations to the Work Site unless otherwise shown on the Contract Drawings or specified. The Contractor shall perform no operation of any nature over or on the

Premises except such operations as are authorized by the Contract Documents or as authorized by the Director.

2-1.15 **DUST CONTROL.** During the performance of all Work under this Contract, the Contractor shall assume all responsibility for dust control and shall furnish all labor, equipment, and means required to carry out proper and efficient measures wherever and whenever dust control is necessary to prevent the operations from producing dust damage and nuisance to persons and property. Any claims resulting from dust damage or nuisance shall be borne solely by the Contractor. The Contractor shall comply with all applicable Air Quality Act requirements.

2-1.16 **SANITATION.** The Contractor shall provide sanitary facilities for all persons working on the Work.

2-1.17 **NIGHT WORK AND NORMAL WORKING HOURS.** Normal working hours at the construction site shall be between the hours of 7:00 a.m. and 7:00 p.m. Monday through Friday. Legal holidays are excluded. Certain utility connections and street operations are anticipated to require night Work by the Contractor during low usage periods. The Contractor may also be required to prosecute the Work at night if, at any time, the Director shall deem it necessary for the progress of the Work, or if emergencies arise. The Contractor shall promptly comply with any such requirements made in writing by the Director. The Contractor will also be permitted to Work at night if Contractor satisfies the Director of the need therefor, in order to maintain the required progress or protect the Work from the elements. Certain activities are required to be performed at night for nominal progress of the Work and/or are specified to be performed at night by other portions of the Supplemental Conditions. When required, ordered, or permitted to Work at night, the Contractor shall provide sufficient and

satisfactory lighting and other facilities therefor. The Contractor shall receive no extra payment for night Work, if specified or if required to be performed during the normal progress of the Work, but compensation shall be considered as having been included in the price stipulated for the Work.

If Contractor performs work during weekends, holidays or any non-normal work hours, Contractor shall pay for required City Inspectors.

2-1.18 **LINES AND GRADES.** Unless otherwise provided in the Supplemental Conditions, the Contractor shall lay out all Work, including structures and pipelines, and shall be responsible for any errors resulting therefrom. In all questions arising as to proper location of lines and grades, the Director's decision will be final.

As part of the bid price for the construction of the improvements, the Contractor shall provide and be responsible for the layout of all Work on this project. The Contractor shall provide all necessary surveys, field staking, and positioning for the construction of all components at the proper alignment, elevations, grades, and positions, as indicated on the Contract Drawings and as required for the proper operation and function. The Contractor shall stake its Work area limits. Contractor shall perform all construction staking using a land surveyor licensed in the State of California. Contractor shall provide a staking plan prior to commencement of Work for the City's review and maintain monuments, stakes, and marks, and shall update the plan as necessary. Director, or Director's designated representative, may verify the field condition. Errors or inconsistencies in the Contract Documents discovered by the Contractor shall be reported to the Director within twenty-four (24) hours and prior to constructive forms or related improvements. Any work Installed with this requirement shall be subject to removal and replacement at the Contractor's expense.

The Contractor's lay-out shall be based on existing structures, property lines, survey control, and bench marks established by the City. All structures and pipeline connections shall be Installed based on actual elevation of existing structures to which connections are made.

The Contractor shall supply such labor as required, at no extra charge, to aid and assist the Director in checking location and grades of the Work as set by the Contractor if the Director desires to perform this checking. This shall include moving materials and equipment located between monuments and the construction Work.

2-1.19 **ARCHEOLOGICAL DISCOVERIES.** Upon discovery of prehistoric or historic artifacts, or other indicators or examples of cultural resources discovered during the course of site preparation, grading, excavation, construction or other development activities, all operations within fifty feet (50') of the find shall cease until such time as the City provides the services of a qualified archeologist to evaluate the finds and recommend appropriate action.

Prehistoric materials can include flaked stone tools (e.g., projectile points, knives and choppers) or tool making debris of obsidian, chert, quartzite and other materials, culturally darkened soil (i.e., midden, which often contains heat affected rock, ash and charcoal, shellfish remains, and cultural materials), and stone milling equipment such as mortars, pestles and hand stones. Historic material may include wood, stone, concrete or adobe footings, walls and other structural remains; debris filled wells or privies; and deposits of wood, metal, glass, ceramics and other refuse.

2-1.20 **PRESERVATION OF MONUMENTS.** Any monuments or bench marks disturbed by construction operations shall be repaired per the City's standard and promptly re-established by a registered land surveyor or civil engineer. A plat for each monument shall be furnished to the Director after the plat has been recorded with the Placer

County Recorder's Office at no additional cost to the City. The recorded plat shall serve as a record of the re-establishment of said existing survey points.

2-1.21 **CONFORMITY WITH CONTRACT DOCUMENTS.** Work and materials shall conform to the lines, grades, cross sections, dimensions and material requirements, including tolerances, required by the Contract Documents. Although measurement, sampling and testing may be considered evidence as to such conformity, the City shall be the sole judge as to whether the Work or materials deviate from the Contract Documents. At its option, the City may elect to accept deviations from the Contract Documents with appropriate backcharge Assessments against the Contractor, and, if such an election is made, the City will provide written notice to the Contractor of such acceptance.

2-1.22 **FINAL CLEANUP.** Prior to final Acceptance of the Work, the Contractor shall thoroughly clean the Premises, remove all temporary structures built by or for the Contractor, and remove all equipment and surplus construction material and debris from the area. The entire project, before Acceptance by the City, shall be left in a neat and clean condition. All Work areas and temporary construction areas shall be returned to essentially the same conditions existing before the commencing of project construction.

2-1.23 **AS-BUILT DOCUMENTS AND DRAWINGS.** The Contractor shall maintain one set of the full size prints furnished by the City and mark thereon in color any deviations from plan dimensions, elevations, or orientations. Also, the Contractor shall locate on said prints, all underground facilities, such as piping, conduits and tanks by accurate field measurement from structure walls, corners, etc. The Contractor shall submit the prints and an electronic CD (searchable PDF or source file format such as AutoCAD) in good condition to the Director upon completion of the job as a condition of Acceptance of the project. Marked prints

shall be updated at least once each week and shall be available to the Director for review as to currency prior to developing partial payment estimates. After the completion of testing, but prior to Acceptance, the Contractor shall submit As-Built electrical drawings in color and an electronic CD showing all components and their wiring, and as specified in the Supplemental Conditions.

2-1.24 **SUPERINTENDENCE.** The Contractor shall supervise and direct the Work, which shall be performed in accordance with the requirements of the Contract Documents. The Contractor shall be solely responsible for implementation of all construction means, methods, techniques, sequences, and procedures and for coordination of all portions of the Work under the Agreement. The Contractor shall be solely responsible for the safety of its employees, Subcontractors of any tier, Suppliers, visitors to the Contractor, and other third parties associated with the Contractor.

The Contractor shall designate in writing before starting Work, an authorized representative who shall have the authority to represent and act for the Contractor.

When the Contractor is comprised of two (2) or more persons, firms, partnerships, or corporations functioning on a joint venture basis, said Contractor shall designate in writing before starting Work, the name of one authorized representative who shall have the authority to represent and act for the Contractor. Instances of misconduct, contract non-compliance, unsatisfactory performance, or incompetence by these personnel shall be grounds for the City to direct Contractor to dismiss them from the Project. Contractor shall immediately comply with the City's request for dismissal, at no cost to the City, and shall designate a replacement, which shall be subject to approval by the City.

Said authorized representative shall be present at the site of the Work at all times while Work is actually in progress on the Contract. When Work is not in progress and during periods

when Work is suspended, arrangements acceptable to the Director shall be made for any Emergency Work that may be required.

Whenever the Contractor or its authorized representative is not present on any particular part of the Work where it may be desired to give direction, orders will be given by the Director, which shall be received and obeyed by the superintendent or foremen who may have charge of the particular Work in reference to which the orders are given.

Any order given by the Director, not otherwise required by the Supplemental Conditions to be in writing, will on request of the Contractor, be given or confirmed by the Director in writing.

2-1.25 **CHARACTER OF WORKER.** If any Subcontractor or person employed by the Contractor shall appear to the Director to be incompetent or to act in a disorderly or improper manner, he or she shall be removed immediately on the requisition of the Director, and such person shall not again be employed on the Work.

2-1.26 **INSPECTION.** The Contractor shall at all times permit the Director to inspect the Work or any part thereof. The Contractor shall maintain proper facilities and provide safe access for such inspection by the Director to all parts of the Work, and to the shops where the Work is in preparation. Work shall not be covered up until authorized by the Director and the Contractor shall be solely responsible for notifying the Director where and when such Work is in readiness for inspection and testing. Should any such Work be covered without authorization, it shall, if so ordered, be uncovered at the Contractor's expense.

Unless otherwise designated as normal working hours, whenever the Contractor intends to perform Work on Saturday, Sunday, or a Legal Holiday, the Contractor shall give notice to the Director of such intention forty-eight (48) hours prior to performing such Work, or such longer

period as may be specified so that the Director may make necessary arrangements.

The observation and/or approval of the workmanship or materials by the City shall not relieve the Contractor of any obligations to fulfill the requirements of the Contract Documents. Workmanship and materials not meeting such requirements shall be corrected and unsuitable Work or material may be rejected, notwithstanding that such Work or materials have been previously observed and/or approved by the City, or payment therefor has been included in a progress estimate.

The City may order re-examination of questioned Work at any time before final Acceptance. If so ordered, the Contractor shall uncover the Work. If such work is found to be in accordance with the Contract Documents, the City will pay for the cost of uncovering, removing, recovering and replacing the parts removed; but if such Work so exposed or examined is not in accordance with the Contract Documents, the uncovering, removal, recovering and replacement shall be at the Contractor's expense. Work that has been covered prior to observation by the City does not qualify as re-examined work; the City may order such work uncovered for observation without payment of any costs.

2-1.27 REMOVAL OF REJECTED AND UNAUTHORIZED WORK. All

Work which has been rejected shall be remedied, or removed and replaced by the Contractor in a manner acceptable to the Director and no compensation will be allowed the Contractor for such removal, replacement, or remedial Work.

Any Work done beyond the lines shown on the Contract Drawings or established by the Director, or any Work done without written authority will be considered as unauthorized Work and will not be paid for. Upon order of the Director, unauthorized Work shall be remedied, removed, or replaced at the Contractor's expense.

Upon failure of the Contractor to comply promptly with any order of the Director made under this section, the Director may cause rejected or unauthorized Work to be remedied, removed, or replaced, and the costs thereof will be deducted from any moneys due or to become due the Contractor.

SECTION 3 CHANGES IN THE WORK

3-1.01 **CHANGES.** The Director, without invalidating this Agreement and without notice to Contractor's surety, may order changes in the Work, consisting of additions or deletions, or other revisions. The Contract Price and the Contract Time shall be adjusted accordingly. All such changes in the Work, including in the Contract Price and the Contract Time, shall be authorized only by Contract Change Order, signed by the Director.

If Contractor claims that performance of any work entitles it to additional compensation or to an extension of time for performance of the Work, Contractor shall provide written notice to the City of any such claim prior to undertaking such work. Contractor shall provide written notice of any anticipated impacts to the Contract Price or Contract Time within three (3) Days of discovering such impact, by submitting a Notice of Potential Claim described in Section 7-1.03 below, or notice of delay as described in Section 6-1.09 below. If the Director refuses to issue a Change Order for such work, Contractor shall perform that work if directed or obligated to do so and shall submit a complete and specific Claim for additional compensation and/or extension of time for performance within fifteen (15) Days after such work is performed, as described in Section 7-1.03 below. Failure to provide written notice of claims prior to undertaking such work, failure to provide a timely Notice of Potential Claim, or failure to submit timely a complete and specific Claim for additional compensation and/or extension of the time for performance, shall be deemed a waiver and abandonment of any such Claim. No Claim, dispute or controversy shall interfere with the progress or performance of the Work and the Contractor shall proceed with the Work as directed by the Director. Failure to so proceed shall amount to a

default under this Agreement.

3-1.02 PROPOSED CHANGE ORDERS. The Contractor will be notified in writing of a proposed Change Order describing the intended change. Within fifteen (15) Days after receipt of a written request, the Contractor shall submit its proposed price to be added or deducted from the Contract Price due to the change and its estimate of the extent of the adjustment in the Contract Time, if any. The Contractor's proposed price to be added to or deducted from the Contract Price shall be supported by a detailed estimate of cost prepared by the Contractor, vendor or Supplier. The Contractor's proposed price submittal shall be accompanied by a statement of the time necessary for the changed Work, together with a description of how this time will be incorporated into the current Construction Schedule. The Contractor shall upon request by the Director permit inspection of its original Contract estimate, subcontract agreements or purchase orders relating to the change.

If agreement is reached on the adjustment in compensation as provided in Section 3-1.05, "Contract Price Adjustment," of these General Conditions, the Contractor shall proceed with the Work as changed at the agreed price.

If the Contractor and the Director fail to agree as to the adjustment in compensation for the performance of the changed Work, the Contractor, upon written order from the Director, shall proceed immediately with the changed Work and the Contract Price shall be adjusted in accordance with Section 3-1.06, "Force Account Payment," of these General Conditions.

If the Contractor fails to submit its cost estimate within such fifteen (15) Day period, the Contractor shall commence the Work as changed immediately upon receipt of written order of the Director, and the Contract Price will be adjusted in accordance with the Director's cost estimate for the changed Work.

3-1.03 **EMERGENCY AND INDETERMINATE TYPE CHANGE**

ORDERS. Changes in the Work made necessary by an Emergency, as determined by the Director, or changes of a kind where the extent of the Work cannot be determined until completed, may be authorized by the Director in writing. The Change Order shall state that it is issued pursuant to this Section 3-1.03. Upon receipt of an authorized Change Order or other written order of the Director, the Contractor shall proceed with the ordered Work and the Director will maintain a daily job record containing a detailed summary of all labor, materials and equipment required for the changed Work.

Within fifteen (15) Days after receiving a written request, the Contractor shall submit a detailed estimate of cost for the change and any requested change in Contract Time in the same manner as required for proposed Change Orders in Section 3-1.02 of these General Conditions.

3-1.04 **EXECUTED CHANGE ORDER.** A Contract Change Order signed by both the Director and the Contractor is an “executed Contract Change Order.” By signing the Contract Change Order, the Contractor agrees that the specified compensation constitutes full compensation for the changed Work, including payment for interruption, disruption, acceleration, extended Overhead, delay or any other “impact” claim or “ripple effect” claim. The Contractor specifically understands and agrees that its execution of the Contract Change Order shall constitute a waiver of any right for the Contractor to claim any additional compensation with respect to the subject matter of the Contract Change Order.

3-1.05 **CONTRACT PRICE ADJUSTMENT.** If a Contract Change Order provides for an adjustment to the Contract Price, the amount of such adjustment shall be determined by one of the following methods, or a combination thereof, as determined by the City and in its sole discretion:

- A. Lump sum. The Contractor and the City may agree on a lump sum amount for the Change Order. At the City's request, the Contractor will provide pricing for the work. Maximum markups for Contract Change Orders paid for using lump sum pricing shall be paid for in the same manner and in the same amounts as markups for Force Account work, as described in Section 3-1.06 below.
- B. Unit Prices. The unit prices set forth in the Contractor's Schedule of Bid Prices will be utilized where they are applicable and acceptable to the City. The Contractor's unit prices shall remain firm and shall not be subject to adjustment unless and until the actual quantity of work is increased or decreased by Contract Change Order in an amount greater than twenty-five percent (25%) from the estimated quantity indicated for such item. No markups will be given for Contract Change Orders paid for using unit prices.
- Unit prices for new items included in the Contract Change Order but not included in the original bid shall be as mutually agreed upon or, in the absence of agreement, as determined by the City in the same manner as if the work were to be paid for on a Force Account basis, as described in Section 3-1.06 below.
- C. Force Account. Where the City and the Contractor are unable to agree on lump sum pricing and if the City does not elect to utilize the unit prices in Contractor's bid, or such unit prices are not applicable, the changed work will be performed and tracked by the Contractor as Force Account work, as described in Section 3-1.06 below. The City will pay for such work, including markups, properly attributable to the change in accordance with those Force Account provisions.
- D. Eliminated Items. The City reserves the right to delete any bid item of Work in its entirety. The City makes no representation that any work under a bid item of Work

will be performed, and all work may be subject to a Contract Change Order that deletes such work. Bid items are distinct and severable from the other bid items, and the Contractor shall not be entitled to any anticipated profit, unabsorbed Overhead, or other indirect expense attributable to the deleted item, except as provided immediately below with regard to Force Account mark-ups on the direct and verifiable costs incurred prior to the City's order that deletes the work.

Should any bid item of Work be eliminated in its entirety and not accounted for as described immediately above and, in the absence of an executed Contract Change Order covering such elimination, payment will be made to the Contractor for actual direct and verifiable costs incurred in connection with such eliminated bid item if incurred prior to the date of notification in writing by the City of such elimination. If acceptable material is ordered by the Contractor for the eliminated item prior to the date of notification of such elimination by the City, and if orders for such material cannot be canceled, it will be paid for at the actual direct and verifiable cost to the Contractor. Actual direct costs shall include documented vendor shipping fees, Supplier restocking fees, if applicable, and Contractor handling costs directly related to the eliminated item(s). In such case, the material paid for shall become the property of the City and the actual cost of any further handling will be paid for by the City. If the material is returnable to the vendor and if the City so directs, the material shall be returned and the Contractor will be paid for the actual direct cost of charges made by the vendor for returning the material. The actual direct cost of handling returned materials will also be paid for by the City. The actual direct and verifiable costs to be paid by the City as provided herein will be computed in the same manner as if the work were to be paid for on a Force Account basis, including the application of Force Account mark-ups to said costs.

3-1.06 **FORCE ACCOUNT PAYMENT.** When Work performed pursuant to a

Change Order is to be paid for on a Force Account basis, the Contractor's labor, materials and equipment used in the performance of such Work shall be subject to the approval of the City, and the compensation will be determined as set forth below in this section.

3-1.06A **LABOR.** The Contractor will be paid an amount based on the actual cost for the workers (including foremen when authorized by the Director) used in the actual and direct performance of the Work. All labor costs associated with Overhead, whether field or home office, are specifically excluded herein, as those labor costs are covered by the below mark-ups. The cost of labor, whether the employer is the Contractor, Subcontractor or other forces, shall include employer payments; assessment of benefits required by lawful labor union collective bargaining agreements; compensation insurance payments; contributions made to the State pursuant to the Unemployment Insurance Code; and for taxes paid to the Federal Government pursuant to the Social Security Act of August 14, 1935, as amended. No labor cost will be recognized at a rate in excess of the wages prevailing in the locality at the time the Work is performed, nor will the use of a labor classification, which would increase the cost, be permitted unless the Contractor establishes to the complete satisfaction of the Director the necessity for payment at a higher rate.

3-1.06B **MATERIALS.** Only materials furnished by the Contractor and necessarily used in the performance of the Work will be paid for. Such cost of materials may include the costs of procurement, transportation and delivery if necessarily incurred. If a cash or trade discount by the actual supplier is available to the Contractor, it shall be credited to the City. If materials are procured by the purchaser by any method which is not a direct purchase from and a direct billing by the actual supplier to such purchaser, the cost of such materials shall be deemed to be the price paid to the actual supplier plus the actual costs, if any, incurred in the

handling of such materials. If the materials are obtained from a supply or source owned wholly or in part by the purchaser, the cost of such materials shall not exceed the price paid by the purchaser for similar materials furnished from said source on Bid items or the current wholesale price for such materials delivered to the job site, less any discounts as provided herein, whichever is lower. If, in the opinion of the Director, the cost of materials is excessive, or if the Contractor fails to furnish satisfactory evidence of the cost to it from the actual supplier within sixty (60) Days after the date of delivery of the materials or within fifteen (15) Days after Acceptance of the Agreement, whichever occurs first, the cost of the materials shall be deemed to be the lowest current wholesale price at which similar materials are available in the quantities required, less any discounts provided herein. The Department reserves the right to furnish such materials required by the Change Order as it deems advisable, and the Contractor shall have no claim for cost or markups on material furnished by the Department.

3-1.06C **EQUIPMENT.** The Contractor will be paid an amount based on the actual cost for the use of equipment directly required and approved by the Director in the performance of the changed Work. No payment will be made for time while equipment is inoperative due to breakdowns or on Days when no Work is performed. In addition, the rental time shall include the time required to move the equipment to the Work from the nearest available source of such equipment, and to return it to the source. If such equipment is not moved by its own power, then loading and transportation costs will be paid. Moving time, loading and transportation costs will only be paid if the equipment is used exclusively on the changed Work during the time between move in and move out. Individual pieces of equipment having a replacement value of One Thousand Dollars (\$1000) or less shall be considered to be tools or small equipment, and no payment will be made therefore. For equipment owned,

furnished, or rented by the Contractor, no cost therefore shall be recognized in excess of the equipment rental rates published by Caltrans at the following website address:

<http://www.dot.ca.gov/hq/construc/equipmnt.html>. Equipment located at a Work Site and utilized on non-Force Account work shall not be eligible for standby payment, and shall be charged on a Force Account basis only when solely performing pre-approved Force Account work tasks.

3-1.06D **MARKUPS.** When a Change Order increases the cost of the Work, the Contractor may add the following maximum markups to its actual costs of labor, materials, or equipment rental:

15 percent for labor;

10 percent for materials; and

5 percent for equipment rental.

The above markups include full compensation, covering the costs of all supervision, bonds, profit, Overhead, and other general expenses not specifically designated as a direct cost in Sections 3-1.06A through 3-1.06C above. The total payment (i.e., direct cost plus applicable markups) shall be deemed to be the actual cost of such work and shall constitute full compensation therefor. The Contractor specifically understands and agrees that such payment shall include any Contractor costs for interruption, disruption, and acceleration, extended Overhead, Change Order management, delay or other “impact” claim or “ripple effect” claim.

When work paid for on a Force Account basis is performed by forces other than the Contractor’s own forces, the maximum allowable mark-ups for the Subcontractors’ costs shall be fifteen percent (15%) for the cost of labor, ten percent (10%) for the cost of materials, and five percent (5%) for the cost of rented equipment. In these situations where the work is being performed by Subcontractors, the Contractor will only be entitled to an additional five percent

(5%) mark-up and will not be entitled to receive the additional mark-ups specified in this section.

When a Change Order decreases the cost of the Work, the reduction in cost shall include a five percent (5%) markup on the estimated cost for furnishing the labor, materials and equipment, which would have been used on such Work, had the Change Order not been issued.

When a Change Order involves both added Work and deleted Work, the markup or markups to be used shall be as follows:

The actual costs of labor, materials, and equipment rental for added and deleted Work shall be calculated separately without adding markups. If the difference between the calculated costs for labor results in an increased cost, a markup of fifteen percent (15%) shall be applied to the increased cost. If the difference between the calculated costs of materials or equipment rental results in an increased cost, a markup of ten percent (10%) and five percent (5%) respectively, shall be applied to the increased costs of materials or equipment rental, as the case may be. If the difference between the calculated costs for labor, materials or equipment rental results in a decreased cost, a markup of five percent (5%) shall be applied to the decreased costs of labor, materials or equipment rental, as the case may be.

Contractor shall not add mark-ups on work performed and billed by City staff nor add mark-ups to successive iterations of proposed Change Order cost proposals returned to Contractor by the City due to incomplete or inaccurate information being originally submitted by the Contractor. If the Contract Price increases by the issuance of Change Orders, the penal amounts of the bonds required shall increase accordingly.

3-1.06E **RECORDS.** The Contractor shall maintain its records in such a manner as to provide a clear distinction between the direct costs of extra work paid for on a Force Account basis and the costs of other operations.

From the above records, the Contractor shall furnish the City completed daily extra work reports, on forms acceptable to the City, for each Day's extra work to be paid for on a Force Account basis. The daily extra work reports shall itemize the materials used, and shall cover the direct cost of labor and the charges for equipment rental, whether furnished by the Contractor, Subcontractor, or other forces. The daily extra work reports shall provide names and identifications and classifications of workers, the hourly rate of pay and hours worked, and also the size, type, and identification number of equipment, and hours operated. Daily extra work and Force Account reports (actual or claimed) shall be signed by both the City's and the Contractor's representatives within twenty-four (24) hours of the performance of the work.

Valid copies of vendor's invoices shall substantiate material charges. Such invoices shall be submitted with the daily extra work reports, or if not available, they shall be submitted with subsequent daily extra work reports. Should said vendor's invoices not be submitted within sixty (60) Days after the date of delivery of the material or within fifteen (15) Days after the Acceptance of the Agreement, whichever occurs first, the City reserves the right to establish the cost of such materials at the lowest current wholesale prices at which said materials were available in the quantities, less any discounts.

The City will compare its records with the completed daily extra work reports furnished by the Contractor and make any necessary adjustments. When these daily extra work reports are agreed upon and signed by both parties, said reports shall become the basis of payment for the work performed, but shall not preclude subsequent adjustment based on a later audit by the City.

The Contractor's cost records pertaining to Work paid for on a Force Account basis shall be open to inspection or audit by representatives of the City during the life of the Agreement and for a period of not less than three (3) years after the date of Agreement completion and the

Contractor shall retain such records for that period. Where payment for materials or labor is based on the cost thereof to forces other than the Contractor, the Contractor shall make every reasonable effort to insure that the cost records of such other forces will be open to inspection and audit by representatives of the City on the same terms and conditions as the cost records of the Contractor. If an audit is to be commenced more than sixty (60) Days after the date of Acceptance of the Agreement, the Contractor will be given fifteen (15) Days' notice of the time when such audit is to begin.

3-1.07 **COST REDUCTION PROPOSALS.** The City encourages the Contractor to submit Cost Reduction Proposals whenever the Contractor identifies areas and/or instances in which there can be savings to the Work. Contractor may submit to the City, in writing, proposals for modifying the plans, Specifications or other requirements of the Agreement for the sole purpose of reducing the total cost of construction, including the time for completion of the Work. The City may consider such Cost Reduction Proposals and, if accepted, the Agreement will be equitably adjusted. The City has no obligation to consider or accept Cost Reduction Proposals.

SECTION 4 CONTROL OF MATERIALS

4-1.01 **MATERIALS.** The Contractor shall furnish all materials required to complete the Work, except materials that are designated in the Supplemental Conditions to be furnished by the City and materials furnished by the City in accordance with Section 3, “Changes in the Work,” of these General Conditions.

Unless otherwise specified in the Supplemental Conditions, materials furnished by the Contractor for incorporation into the Work shall be new. When the quality or kind of materials, articles, or equipment is not particularly indicated, then the quality or kind thereof shall be similar to those that are indicated.

Articles or materials to be incorporated in the Work shall be stored in such a manner as to insure the preservation of their quality and fitness for the Work, and to facilitate inspection.

All materials which do not conform to the requirements of the Contract Documents as determined by the Director, will be rejected whether in place or not. Rejected material shall be removed immediately from the site of the Work, unless otherwise permitted by the Director. No rejected material, the defects of which have been subsequently corrected, shall be used in the Work, unless approval in writing has been given by the Director. Upon failure of the Contractor to comply promptly with any order of the Director made under these provisions, the Director shall have the authority to cause the removal and replacement of rejected material and to deduct the cost thereof from any moneys due or to become due the Contractor.

Manufacturer's warranties, guaranties, instruction sheets and parts lists, which are furnished with certain materials incorporated in the Work, shall be delivered to the Director

before Acceptance of the Contract.

Unless otherwise designated in the Supplemental Conditions or Specifications, materials furnished by the City will be delivered to the job site. Materials furnished by the City that are designated in the Supplemental Conditions as available at locations other than the job site shall be hauled to the site of the Work by the Contractor at its expense, including any necessary loading and unloading that may be involved.

The Contractor will be held responsible for all materials furnished to it, and shall pay all demurrage and storage charges. City-furnished materials lost or damaged from any cause whatsoever shall be replaced by the Contractor. The Contractor will be liable to the Department for the cost of replacing City-furnished material and such costs may be deducted from any moneys due or to become due the Contractor.

4-1.02 **PRODUCT AND REFERENCE STANDARDS.** When descriptive catalog designations, including manufacturer's name, product brand name, or model number are referred to in the Contract Documents, such designations shall be considered as being those found in industry publications in effect on the day the Notice to Contractors for the Work is dated, except as may be otherwise stated.

When standards or test designations of the Federal Government, trade societies, or trade associations are referred to in the Contract Documents by specific date of issue, these shall be considered as part of the Contract. When such references do not bear a date of issue, the edition in effect on the day the Notice to Contractors for the Work is dated shall be considered as part of the Contract.

4-1.03 **SAMPLING AND TESTING OF MATERIALS.** Unless otherwise specified, all tests shall be performed in accordance with the methods used by the State

Department of Transportation (Caltrans) and shall be made by the Director or his or her designated representative.

The State Department of Transportation has developed test methods for testing the quality of materials and Work. These test methods are identified by a California Test followed by the serial number. Copies of individual tests are available at the State Department of Transportation Laboratory, Sacramento, California, and will be furnished to interested persons upon request.

Whenever a reference is made in the Supplemental Conditions to a California Test by number, it shall mean the California test in effect on the day the Notice to Contractors for the Work is dated.

Whenever the Supplemental Conditions provide an option between two (2) or more test methods, the Director will determine the test method to be used.

Whenever a Supplemental Condition, manual, or test designation provides for test reports (such as certified mill test reports) from the manufacturer, copies of such reports, identified as to the lot of material, shall be furnished to the Director. The manufacturer's test reports shall supplement the inspection, sampling and testing provisions of this Section 4-1.03 and shall not constitute a waiver of the City's right to inspect. When material which cannot be identified with specific test reports is proposed for use, the Director may at his or her discretion, select random samples from the lot for testing. Testing specimens from the random samples, including those required for retest, shall be prepared in accordance with the referenced Supplemental Conditions and furnished by the Contractor at its expense. The number of such samples and test specimens shall be entirely at the discretion of the Director.

When requested by the Director, the Contractor shall furnish, without charge, samples of

all material entering into the Work, and no material shall be used prior to approval by the Director, except as provided in Section 4-1.04, "Certificates of Compliance," of these General Conditions.

- A. Inspection and Access for Testing. The Contractor shall provide safe access for the Director and his or her inspectors to adequately inspect the quality of Work and conformance with the General and Supplemental Conditions. The Contractor shall provide adequate lighting, ventilation, ladders and other protective facilities as may be necessary for the safe performance of inspections.

The Contractor shall submit samples or specimens of such materials to be furnished or used in the Work as the Director may require. The Contractor shall furnish the Director all necessary labor and facilities for such things as excavation in the compacted fill to depths required to take samples.

Inspections, tests, or favorable review by the Director or others shall not relieve the Contractor from its obligations to perform the Work in accordance with the requirements of the Contract Documents.

Work covered without the favorable review or consent of the Director shall, if required by the Director, be uncovered for examination at the Contractor's expense.

If the Engineer, Architect, or Director considers it necessary or advisable that covered Work be inspected or tested by others, the Contractor, at the Director's request, will uncover, expose or otherwise make available for observation, inspection or testing as the Director may require, that portion of the Work in question, furnishing all necessary labor, materials, tools, and equipment. If it is found that such Work is defective, the Contractor will bear all the expenses of such uncovering, exposure, observation, inspection and testing and of

satisfactory reconstruction. If, however, such Work is not found to be defective and the Work was not covered without favorable review of the Director, the Contractor will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, to cover its costs directly attributable to such uncovering, exposure, observation, inspection, testing, and reconstruction and an appropriate Change Order shall be issued.

Whenever the Contractor varies the period during which Work is carried on each Day, the Contractor shall give due notice to the Director so that proper inspection may be provided. Any Work done in the absence of the Director may be subject to rejection. Proper facilities for safe access for inspection to all parts of the Work shall at all times be maintained for the necessary use of the Director and other agents of the City. Authorized representatives and agents of the Director shall be permitted access to inspect all Work and materials wherever it is required for preparation of progress reports, and the Contractor shall provide proper facilities for such access and inspection.

It is the Contractor's responsibility to supervise the Work and complete the project in accordance with the Contract Documents. In the course of managing that effort, the Contractor shall generate its own punch lists as deemed necessary. The Director may prepare punch lists for the Director's own use in communicating with the Contractor; however, the Director shall be under no obligation to prepare punch lists for the Contractor. In general, the Director will prepare punch lists only after the Contractor has given the Director written notice that the subject Work is completed and tested in accordance with the Contract Documents and is ready for operation and/or use and/or occupancy. Failure of the Director to include an item in a punch list shall not relieve the Contractor of its duty to satisfactorily complete all Work required by the Contract Documents.

Upon Final Completion of the construction Work and request by the Contractor, the Director will conduct a final inspection as a basis for recommending to the City that the Work be accepted.

- B. Field and Materials Testing. Where the Supplemental Conditions require Work to be specially field tested or approved, it shall be tested only in the presence of the Director after timely notice of its readiness for inspection and test, and the Work after testing shall be covered up only upon the consent thereto of the Director.

The results of any tests made are for the information of the Director. Regardless of any test results, the Contractor is solely responsible for the quality of workmanship and materials and for compliance with the requirements of the Contract Drawings and Supplemental Conditions.

Except as specifically required under the Supplemental Conditions, all tests by the Director of materials furnished by the Contractor will be done in accordance with commonly recognized standards of national organizations. The Contractor shall furnish such samples of all materials as required by the Director without charge. No material shall be used unless it has been favorably reviewed by the Director.

Where such inspection and testing are to be conducted by an independent Laboratory or agency, the sample or samples of materials to be tested shall be selected by such Laboratory or agency, or the Director, and not by the Contractor.

- C. Costs of Testing.

1. Initial Services: The City shall furnish and pay for all initial testing services required by the Contract Documents. When initial tests indicate non-compliance with the Contract Documents, the cost of initial tests associated with that non-

compliance will be

deducted by the City from the balance owed the Contractor. The Contractor shall furnish samples of materials for testing as may be required by the Director. Such samples shall be furnished without cost to the City.

2. Retesting: When initial tests indicate non-compliance with the Contract Documents, all subsequent retesting occasioned by the non-compliance shall be performed by the same testing Laboratory and the cost thereof will be deducted by the City from the balance owed the Contractor. Contractor shall be billed for each additional test.

3. Contractor Convenience Testing: Inspection or testing performed exclusively for the Contractor's convenience shall be the sole responsibility of the Contractor.

4. Additional Tests and Inspections: When in the opinion of the Director additional tests or inspections are required because of the manner in which the Contractor executes its Work, such tests and inspections shall be paid for by the City, but will be deducted from the Contract Price. Examples of such tests and inspections are tests of materials substituted for previously accepted materials or substituted for specified materials, retests made necessary by failure of material to comply with the requirements of the Specifications, load tests made necessary because of portions of the structure not fully meeting Specifications or plan requirements, etc.

4-1.04 **CERTIFICATES OF COMPLIANCE.** A Certificate of Compliance shall be furnished prior to the use of any materials for which the Supplemental Conditions require that such a Certificate be furnished. In addition, the Director may permit the use of certain materials or assemblies prior to sampling and testing if accompanied by a Certificate of Compliance. The Certificate shall be signed by the manufacturer of the material or the

manufacturer of assembled materials and shall state that the materials involved comply in all

respects with the requirements of the Supplemental Conditions. A Certificate of Compliance shall be furnished with each lot of such materials delivered to the Work and the lot so certified shall be clearly identified in the Certificate.

All materials used on the basis of a Certificate of Compliance may be sampled and tested at any time. The fact that material is used on the basis of a Certificate of Compliance shall not relieve the Contractor of responsibility for incorporating material in the Work which conforms to the requirements of the Contract Documents and any such material not conforming to such requirements will be subject to rejection whether in place or not.

The Department reserves the right to refuse to permit the use of material on the basis of a Certificate of Compliance.

The form of the Certificate of Compliance and its disposition shall be as directed by the Director.

SECTION 5

LEGAL RELATIONS AND RESPONSIBILITY

5-1.01 **LAWS TO BE OBSERVED.** The Contractor shall keep informed of and observe, and comply with and cause all of its agents and employees to observe and comply with, all prevailing Federal and State laws, and rules and regulations made pursuant to said Federal and State laws, and county and municipal ordinances, and regulations, which in any way affect the conduct of the Contract. If any conflict arises between provisions of the Contract and any such law above referred to, the Contractor shall notify the Director at once in writing. To the fullest extent allowed by law, the Contractor shall defend, indemnify, and save and hold harmless the City or any of its officers, agents, employees, and volunteers against any claim or liability arising from or based on the violation of any such law, rule, or regulation, whether by itself or its agents or employees.

5-1.02 **HOURS OF LABOR.** Eight (8) hours labor constitutes a legal Day's work. The Contractor or Subcontractor shall, as a penalty to City, forfeit Twenty-five Dollars (\$25) for each worker employed in the execution of the contract by the respective Contractor or Subcontractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one (1) calendar day and forty (40) hours in any one (1) calendar week in violation of the provisions of the Labor Code, and in particular, Section 1810 to Section 1815, thereof, inclusive, except that Work performed by employees of Contractors in excess of eight (8) hours per day, and forty (40) hours during any one (1) week, shall be permitted upon public work upon compensation for all hours worked in excess of eight (8) hours per day at not less than one and one-half (1-1/2) times the basic rate of pay, as provided in said

Section 1815. In addition, Contractor and/or its Subcontractors may be required to pay double the basic rate of pay for all hours worked in excess of twelve (12) hours in any workday and under other circumstances. (See California Code of Regulations, Title 8, Sections 16100(c)(6) and (16200(a)(3)(F) and applicable Department of Industrial Relations prevailing wage determinations.)

5-1.03 **NONDISCRIMINATION.**

A. Attention is directed to Labor Code Section 1735, which reads as follows: “A contractor shall not discriminate in the employment of persons upon public works on any basis listed in subdivision (a) of Section 12940 of the Government Code, as those bases are defined in Sections 12926 and 12926.1 of the Government Code, except as otherwise provided in Section 12940 of the Government Code. Every Contractor for public works who violates this section is subject to all the penalties imposed for a violation of this chapter.”

B. During the performance of this Contract, Contractor and its Subcontractors shall not unlawfully discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status. The Contractor and Subcontractors shall insure that the evaluation and treatment of their employees and applicants for employment are free of such discrimination. The Contractor and Subcontractors shall comply with the provisions of the California Fair Employment and Housing Act (Government Code §12900, et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, §7285.0 et seq.) and other applicable State and Federal regulations and City

policies pertaining to nondiscrimination and affirmative action which are incorporated into this Agreement by reference and made a part hereof as if set forth in full. The Contractor and its Subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.

C. Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform Work under the agreement.

5-1.04 **PREVAILING WAGE.** The Contractor and any Subcontractor shall comply with Labor Code Sections 1770 et seq. In accordance with said Section 1775 the Contractor and any Subcontractor under the Contractor shall, as a penalty, forfeit to the state or City not more than \$200 for each calendar day or portion thereof, for each worker paid less than the prevailing rate as determined by the Director of Industrial Relations for the work or craft in which such worker is employed for under the Contract by the Contractor or by any Subcontractor under the Contractor.

The amount of the penalty shall be determined by the Labor Commissioner based on consideration of both of the following: (a) whether the failure to pay the correct rate of per diem wages was a good-faith mistake and, if so, whether the error was promptly and voluntarily corrected when brought to the attention of the Contractor or Subcontractor; and (b) whether the Contractor or Subcontractor has a prior record of failing to meet its prevailing wage obligations.

The penalty may not be less than forty dollars (\$40) for each calendar day, or portion thereof, for each worker paid less than the prevailing wage rate, unless the failure of the Contractor or Subcontractor to pay the correct rate of per diem wages was a good faith mistake and, if so, the error was promptly and voluntarily corrected when brought to the attention of the Contractor or Subcontractor.

The penalty may not be less than eighty dollars (\$80) for each calendar day, or portion thereof, for each worker paid less than the prevailing wage rate, if the Contractor or Subcontractor has been assessed penalties within the previous three (3) years for failing to meet its prevailing wage obligations on a separate contract, unless those penalties were subsequently withdrawn or overturned.

The penalty may not be less than one hundred twenty dollars (\$120) for each calendar day, or portion thereof, for each worker paid less than the prevailing wage rate, if the Labor Commissioner determines that the violation was willful, as defined in subdivision (c) of Section 1777.1 of the Labor Code.

If the amount due under this section is collected from the Contractor or Subcontractor, any outstanding wage claim under Chapter 1 (commencing with Section 1720) of Part 7 of Division 2 of the Labor Code against the Contractor or Subcontractor shall be satisfied before applying that amount to the penalty imposed on that Contractor or Subcontractor pursuant to this section.

The determination of the Labor Commissioner as to the amount of the penalty shall be reviewable only for an abuse of discretion.

In addition to said penalty, the difference between such stipulated prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the stipulated prevailing wage shall be paid to each worker by the Contractor or Subcontractor.

If a worker employed by a Subcontractor on a public works project is not paid the general prevailing per diem wages by the Subcontractor, the Contractor is not liable for any penalties described above unless the Contractor had knowledge of that failure of the Subcontractor to pay

the specified prevailing rate of wages to those workers or unless the Contractor fails to comply with all of the following requirements:

1. The contract executed between the Contractor and the Subcontractor for the performance of work on the public works project shall include a copy of the provisions of Sections 1771, 1776, 177.5, 1813, and 1815 of the Labor Code.
2. The Contractor shall monitor the payment of the specified general prevailing rate of per diem wages by the Subcontractor to the employees, by periodic review of the certified payroll records of the Subcontractor.
3. Upon become aware of the Subcontractor's failure to pay its workers the specified prevailing rate of wages, the Contractor shall diligently take corrective action to halt or rectify the failure, including, but not limited to, retaining sufficient funds due the Subcontractor for work performed on the public works project.
4. Prior to making final payment to the Subcontractor for work performed on the public works project, the Contractor shall obtain an affidavit signed under penalty of perjury from the Subcontractor that the Subcontractor has paid the specified general prevailing rate of per diem wages to its employees on the public works project and any amount due pursuant to 1813 of the Labor Code.

Pursuant to Section 1775 of the Labor Code, the Division of Labor Standards Enforcement shall notify the Contractor on a public works project within fifteen (15) Days of the receipt by the Division of Labor Standards Enforcement of a complaint of the failure of a Subcontractor on that public works project to pay workers the general prevailing rate per diem wages.

Pursuant to the provisions of California Labor Code Section 1773, the City has obtained

the general prevailing rate of wages applicable to the categories of workers the City anticipates will be utilized for this project for straight time, overtime, Saturday, Sunday, and holiday Work. The holiday wage rate listed shall be applicable to all holidays recognized in the collective bargaining agreement of the particular craft, classification or type of worker concerned or, if no collective bargaining applies, those holidays identified in Government Code Section 6700. These wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>, which is incorporated herein as a part of this Contract.

Pursuant to Labor Code Section 1773.2, the general prevailing wage rates set forth above, which forms a part of this Contract, shall be posted by the Contractor at a prominent place at the site of the Work.

Pursuant to Labor Code Section 1773.6 and California Code of Regulations Section 16204, Title 8, changes in general prevailing wage determinations shall apply to the project only if issued by the Director of Industrial Relations prior to the City's bid issuance date.

The City will not recognize any claim for additional compensation because of the payment by the Contractor of any wage rate in excess of the prevailing wage rate set forth in the Contract. The possibility of wage increases is one of the elements to be considered by the Contractor in determining its Bid, and will not under any circumstances be considered as the basis of a claim against the City or Contract.

When both California and Federal prevailing wage rates apply, the Contractor and any Subcontractors shall pay their workers the higher of the two rates. The Contractor and any Subcontractors shall insert this clause in any lower tier contract.

5-1.05 REGISTRATION REQUIRED AS QUALIFICATION TO BID.

Pursuant to Labor Code Section 1771.1(b), notice is hereby given that a Contractor or Subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contractor for public work, as defined in Labor Code Sections 1720, et seq., unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5. It is not a violation of Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5.

5-1.06 **PAYROLL RECORDS.** The Contractor's attention is directed to the following provisions of Labor Code Section 1776. The Contractor shall be responsible for the compliance with these provisions by its Subcontractors.

A. The Contractor and each Subcontractor shall keep accurate and current payroll records, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by it in connection with the public work. Each payroll record shall contain or be verified by a written declaration that is made under penalty of perjury, stating both of the following:

1. The information contained in the payroll record is true and correct.
2. The employer has complied with the requirements of Section 1771, 1811, and 1815 for any work performed by his or her employees on the public works project.

B. The payroll records enumerated under subdivision (A) shall be

available for inspection at all reasonable hours at the principal office of the Contractor on the following

basis:

1. A certified copy of an employee's payroll record shall be made available for inspection or furnished to such employee or his or her authorized representative on request.

2. A certified copy of all payroll records enumerated in subdivision (A) shall be made available for inspection or furnished upon request to a representative of the City, the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the Department of Industrial Relations. The City reserves the right to withhold any progress payments to the Contractor in the event of noncompliance with the subsection.

3. A certified copy of all payroll records enumerated in subdivision (A) shall be made available upon request by the public for inspection or for copies thereof. However, a request by the public shall be made through either the City, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. The public shall not be given access to such records at the principal office of the Contractor.

C. The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement or shall contain the same information as the forms provided by the Division.

D. Each Contractor shall file a certified copy of the records enumerated in subdivision (A) with the entity that requested the records within ten (10) Days after receipt of a written request.

E. Any copy of the records made available for inspection as copies and furnished upon request to the public or any public agency by the City, the Division of

Apprenticeship Standards or the Division of Labor Standards Enforcement shall be marked or

obliterated to prevent disclosure of an individual's name, address and social security number. The name and address of the Contractor awarded the Contract or Subcontractor performing the Contract shall not be marked or obliterated. Any copy of records made available for inspection by, or furnished to, a joint labor-management committee established pursuant to the federal Labor Management Cooperation Act of 1978 (Section 175a of Title 29 of the United States Code) shall be marked or obliterated only to prevent the disclosure of an individual's name and social security number. A joint labor-management committee may maintain an action in a court of competent jurisdiction against an employer who fails to comply with Section 1774. The court may award restitution to an employee for unpaid wages and may award the joint labor-management committee reasonable attorneys' fees and costs incurred in maintaining the action. An action under this subdivision may not be based on the employer's misclassification of the craft of a worker on its certified payroll records. Nothing in this subdivision limits any other available remedies for a violation of this section.

F. The Contractor shall inform the City of the location of the records enumerated under subdivision (A), including the street address, city and county, and shall, within five (5) business days, provide a notice of a change of location and address.

G. The Contractor shall have ten (10) Days in which to comply subsequent to receipt of written notice requesting the records enumerated in subdivision (A). In the event that the Contractor or Subcontractor fails to comply within the ten (10) Day period, the Contractor shall, as a penalty to the State or City, forfeit twenty-five (\$25) Dollars for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from any progress payment or final payment then

due. A contractor

is not subject to a penalty assessment pursuant to this section due to the failure of a Subcontractor to comply with this section.

5-1.07 SAFETY REQUIREMENTS. It is the intent of the parties that the City is not an exposing, creating, controlling, or correcting employer under California Labor Code Section 6400. In accordance with generally accepted construction practices and State law, the Contractor shall have the authority and be solely and completely responsible for conditions on the Work Site, including safety of all persons and property during performance of the Work. Moreover, the Contractor shall be the controlling employer and has the authority and responsibility to enforce Work Site safety. The Contractor shall be responsible for conducting daily safety inspections and assuring all hazards and violations are abated. The Contractor is responsible for assuring that all Subcontractors adhere to the minimum Cal/OSHA safety requirements and that each Subcontractor has an effective Cal/OSHA IIPP (Illness and Injury Prevention Program) in place that specifically addresses all potential exposures, such as, but not limited to, fall protection, confined space, and trenching/shoring. These requirements shall apply continuously and not be limited to normal working hours. The Contractor shall be responsible for any delay costs or damages in the event the progress of Work is slowed or stopped due to a safety violation.

The Contractor shall designate a safety officer and have in place a health and safety plan in accordance with the laws of State of California and conduct safety meetings and document them in accordance with the law. The Contractor shall have the safety record available for inspection during working hours and shall submit job site safety meeting reports with each Application for Payment.

Prior to Contractor commencing construction project work on City property, Contractor

shall make available copies of its Health and Safety Plan (HASP) that meets or exceeds applicable Cal/OSHA regulations. The Contractor's HASP shall also meet or exceed the requirements of any applicable City-wide or departmental specific Injury and Illness Prevention Programs (IIPP) and other HASP programs, procedures, and plans. Potentially applicable HASP programs, procedures, and plans include, but are not limited to, the following:

1. Bloodborne Pathogens Exposure Control Plan;
2. Confined Space Entry Procedure;
3. Electrical Safety Program (Lockout/Tagout);
4. Emergency Action Plans (Site Specific);
5. Fire Prevention Plans (Site Specific);
6. Hazardous Waste Operations Emergency Response Plan (or Equivalent);
7. Hazard Communication Program (SDS's and Right-to-Know training);
8. Heat Illness & Prevention Plan;
9. Hearing Conservation Program;
10. Hot Work/Welding Procedure;
11. Job Hazard Analyses/Standard Operating Procedures;
12. Traffic Control & Flagging;
13. Excavation/Dig Safe Procedure;
14. Fall Protection Plan;
15. Personal Protective Equipment Plan;
16. Respirable Crystalline Silica Exposure Control Plan;
17. Respirator Program;
18. Soils Management Plan (for contaminated soils); and

19. Transite (Asbestos) Pipe Work Procedure.

Additionally, Contractor shall be responsible for complying with all City-wide and departmental specific safety requirements as identified in the Supplemental Conditions or presented at a pre-construction meeting.

Contractor shall inform City in advance of the quantity of chemical(s) to be used for the project and the total quantity of chemical(s) that will be brought onto City property. In addition, Contractor shall provide City with one copy of the Safety Data Sheet (SDS) for each chemical expected to be used to complete the project and for each chemical brought to the Work Site, regardless of whether such chemicals are ultimately used for the project.

The services of the Director in conducting construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's Work methods, equipment, bracing or scaffolding, or safety measures, in, on, or near the construction site. If a City employee observes a safety violation, the City employee will report the violation to the Contractor who is then responsible for assuring the violation is abated.

The Contractor is hereby informed that Work on this project could be hazardous. The Contractor shall carefully instruct all personnel working in potentially hazardous Work areas as to potential dangers and shall provide such necessary safety equipment and instructions as are necessary to prevent injury to personnel and damage to property. Special care shall be exercised relative to Work underground.

All Work and materials shall be in strict accordance with all applicable State, City, County, and Federal Rules, Regulations, and Codes, and attention is drawn to the requirements of Cal/OSHA. The Contractor shall be solely responsible for compliance with all City, County and State blasting requirements and for any damages caused by its operations.

To ensure compliance with California Labor Code Section 6705, the Contractor shall submit to the City, at least five (5) Days in advance of excavation of any trench five feet (5') or more in depth, Working Drawings to the Director showing the design of shoring, bracing, sloping and other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trench or trenches. If such Working Drawings vary from the shoring system standards established by the Cal/OSHA Construction Safety Orders of the Division of Industrial Safety, the plan shall be prepared and signed by a registered civil or structural engineer in the State of California. This in no way relieves the Contractor from the requirement of maintaining safety in all operations performed by the Contractor or the Contractor's Subcontractors and nothing in this section shall be deemed to allow the use of a shoring, sloping or protective system less effective than that required by the Cal/OSHA Construction Safety Orders of the Division of Industrial Safety Contractor's Working Drawings shall be subject to approval insofar as the details affect the character of the finished Work and for compliance with design requirements applicable to the construction when specified or called for, but details of the design will be left to Contractor who shall be responsible for the successful construction of the Work. The City shall approve Working Drawings before any Work involving such drawings is performed. Approval and/or acceptance by the City or its designated agent only constitutes acknowledgment of the submission and does not constitute review or approval of the designs, design assumptions or criteria, completeness of submissions, applicability to areas of intended use, nor implementation of the plans, which are solely the responsibility of the Contractor and its registered engineer.

The Contractor shall perform its Work as not to expose personnel to, or to discharge into the atmosphere from any source whatever, smoke, dust, asbestos, toxic chemicals or other air

contaminants in violation of the laws, rules, and regulations of the governmental entities having jurisdiction and shall bear full and exclusive responsibility for any release of hazardous or non-hazardous chemicals or substances during the course of the Work. The Contractor shall immediately report any such release to the City. The Contractor shall be solely responsible for all claims and expenses associated with the response to, removal and remediation of the release, including, without limitation, payment of any fines or penalties levied against the City by any agency as a result of such release and shall defend, indemnify, and save and hold harmless the City, its officers, agents, employees, and volunteers from any claims arising from such release. For purposes of this section only, the term “claims” shall include:

1. All notices, orders, directives, administrative or judicial proceedings, fines, penalties, fees, or charges imposed by any governmental agency with jurisdiction; and
2. Any claim, cause of action, or administrative or judicial proceeding brought against the City, its officers, agents, employees, and volunteers for any loss, cost (including reasonable attorneys’ fees), damage or liability, sustained or suffered by any person or entity, including the City.

If the performance of the Work creates any hazardous wastes, those wastes shall be properly disposed of according to federal, state, and local laws, at the expense of the Contractor. The Contractor shall dispose of the wastes under its own EPA Generator Number. In no event shall the City be identified as the generator. The Contractor shall notify the City of any such hazardous wastes and the City reserves the right to a copy of the results of any tests conducted on the wastes, and, at its cost, to perform additional tests or examine those wastes, prior to disposition. The Contractor shall defend, indemnify, and save and hold harmless the City, its

officers, agents, employees, and volunteers from any claims arising from the disposal of the hazardous wastes, regardless of the absence of negligence or other malfeasance by the Contractor. Disposal of all Hazardous Materials must be done in accordance with all laws and regulations. Copies of required regulatory documentation including copies of final manifests shall be supplied to the City.

Contractors or Subcontractors removing one hundred or more square feet (100') of asbestos must be "Certified" in accordance with State law. All Work involving exposure to asbestos and all other hazardous materials shall be performed with protection of personnel in compliance with all applicable regulations and safety requirements including, but not limited to, California Code of Regulations Section 1529, Title 8.

Nothing in these General Conditions is to be construed to permit Work not conforming to governing codes. When Contract Documents differ from governing codes, the Contractor shall furnish and Install the higher standards called for without extra charge.

5-1.08 **SUBSURFACE EXCAVATIONS. NOTIFICATION.** The Contractor shall contact the regional notification center, "Underground Service Alert," and schedule its Work to allow ample time for the center to notify its members and, if necessary, for any member to field locate and mark its facilities. Without limiting the foregoing, the Contractor's attention is directed to Government Code Sections 4216 to 4216.9, and in particular Section 4216.2.

5-1.09 **PUBLIC SAFETY.** The Contractor shall assume all responsibility for public safety during the performance of its Work, and all costs arising therefrom shall be included in the Contract Price. Whenever the Contractor's operations create a condition hazardous to traffic or to the public, it shall furnish, erect and maintain, at its expense, such fences, barricades, lights, signs, and other devices and take such other protective measures as are

necessary to prevent accidents or damage or injury to the public. The Contractor shall establish the pedestrian detours with comparable lighting to the original pedestrian areas. The Contractor shall arrange for such flaggers as are necessary to give adequate warning to traffic or to the public of any dangerous conditions affecting traffic. For Work in a public right-of-way, the Contractor shall comply with the rules and regulations of the State, County, or local agency that owns the right-of-way.

The Contractor shall promptly and fully comply with and carry out, and shall without separate charge therefor to the City, all safety and first aid requirements prescribed by all applicable Federal, State, and local laws and regulations, rules, and orders. The Work shall be done in a safe manner; and the Contractor shall safeguard the safety and health of its employees, Subcontractors, and the people of local communities. The Contractor shall also be reasonable for ensuring that its Subcontractors comply with the provisions of this section.

Upon the failure of the Contractor to comply with any of the requirements of this section, the City shall have the authority, but not the duty, to stop the Work until such failure is remedied. The Contractor shall not be entitled to an adjustment of the Contract Time or an increase in the Contract Price due to any such suspensions.

When required by the Contract Documents, the Contractor shall construct, maintain, and remove detours for use of public traffic, without additional cost to the City, unless separate payment is specified in the Special Provisions.

The failure or refusal of the Contractor to construct and maintain detours at the proper time shall be sufficient cause for closing down the work until such detours are in satisfactory condition for use by public traffic.

Due care shall be exercised to avoid injury to existing improvements or facilities, utility

facilities, adjacent property and trees, shrubs, and other plants that are not to be removed.

Trees, shrubs and other plants that are not to be removed, and pole lines, fences, signs, survey markers and monuments, buildings and structures, conduits, pipe lines, sewer and waterlines, highway facilities, and any other improvements or facilities, under or above ground, that are within or adjacent to the work limit line shall be protected from injury or damage, and the Contractor shall provide and Install suitable safeguards to protect such objects from injury or damage. If such objects are injured or damaged by reason of the Contractor's operations, they shall be replaced or restored at the Contractor's expense. The facilities shall be replaced or restored to a condition as good as when the Contractor entered upon the Work Site, or as good as required by the Contract Documents if any such objects are part of the Work. The City may make or cause to be made such temporary repairs as are necessary to restore to service any damaged facility. The cost of such repairs shall be borne by the Contractor, and the costs may be deducted from any monies due or to become due to the Contractor under the Agreement.

The fact that any underground facilities is not shown on the Contract Drawings shall not relieve the Contractor of its responsibility pursuant to "Utility Facilities" in Section 2-1.12 elsewhere in the Contract Documents. It shall be the Contractor's responsibility, pursuant thereto, to ascertain the location of such underground improvements or facilities, which may be subject to damage by reason of its operations.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the Work involved in protecting or repairing property as specified in this section, shall be considered as included in the prices paid for the various Contract items of work and no additional compensation will be allowed therefor.

5-1.10 **EMERGENCIES.** In an Emergency affecting the safety of life, the

Work, or adjoining property, the Contractor, without special instructions or authorization from the City, shall act at its discretion to prevent such threatened loss or injury. In such an Emergency, the Contractor may perform such additional work as is reasonably required. Any compensation claimed by the Contractor on account of Work performed to an Emergency shall be determined in accordance with the provisions relating to Force Account payment contained elsewhere in the Contract Documents.

5-1.11 **APPRENTICES.** Attention is directed to Labor Code Sections 1777.5, 1777.6 and 1777.7 and Title 8, California Code of Regulations Section 200 et seq. In accordance with Section 1777.5, the Contractor shall secure the necessary certificates and shall contribute to the apprenticeship fund or funds, as provided therein. The Contractor shall require each Subcontractor who will perform work or labor or render service to the Contractor in or about the construction of the work to fully comply with Sections 1777.5 and 1777.6 of the Labor Code. To insure compliance and complete understanding of the law regarding apprentices, and specifically the required ratio thereunder, each Contractor or Subcontractor should, where some questions exist, contact the Division of Apprenticeship Standards, , or one of its branch offices prior to commencement of Work on the public works Contract. Responsibility for compliance with this section lies with the prime Contractor.

It is State and City policy to encourage the employment and training of apprentices on public works Contracts as may be permitted under local apprenticeship standards.

5-1.12 **FAIR LABOR STANDARDS ACT.** Attention is invited to the fact that the City has been advised by the Wage and Hour Division, U.S. Department of Labor, that Contractors engaged in construction Work are required to meet the provisions of the Fair Labor Standards Act of 1958 and as amended (52 Stat. 1060).

5-1.13 **WORKERS' COMPENSATION.** Pursuant to the requirements of Labor Code Section 1860, the Contractor will be required to secure the payment of workers' compensation to its employees in accordance with the provisions of Labor Code Section 3700.

Prior to the commencement of Work, the Contractor shall sign and file with the Director a certification in the following form:

“I am aware of the provisions of Labor Code Section 3700 which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of this Contract.”

5-1.14 **AIR POLLUTION CONTROL AND ASBESTOS.** The Contractor shall comply with all air pollution control rules, regulations, ordinances and statutes which apply to any Work performed pursuant to the Contract, including any air pollution control rules, regulations, ordinances and statutes, specified in Government Code Section 11017.

In the absence of any applicable air pollution control rules, regulations, ordinances or statutes governing solvents, all solvents, including but not limited to the solvent portions of paints, thinners, curing compounds, and liquid asphalt used on the project shall comply with the applicable material requirements of the applicable Air Quality Management District. All containers of solvent, paint, thinner, curing compound, or liquid asphalt shall be labeled to indicate that the contents fully comply with said requirements.

Unless otherwise provided in the Supplemental Conditions, material to be disposed of shall not be burned, either inside or outside the Premises.

The Contractor shall also comply with all rules, regulations, statutes and ordinances

regarding asbestos removal and disposal, including but not limited to, 42 U.S.C. Sections 7401, 7412 and 7601, 40 C.F.R. Part 61, Subpart M, and California Code of Regulations Section 1529, Title 8.

If the Contractor discovers that a building to be demolished or renovated contains asbestos containing material, the Contractor shall immediately cease Work and notify the City.

5-1.15 **USE OF PESTICIDES.** The Contractor shall comply with all local, state and federal rules and regulations of the Department of Food and Agriculture, the Department of Health, the Department of Industrial Relations and all other agencies which govern the use of pesticides required in the performance of the Work.

Pesticides shall include but shall not be limited to herbicides, insecticides, fungicides, rodenticides, germicides, nematocides, bactericides, inhibitors, fumigants, defoliants, desiccants, soil sterilants, and repellents.

Any substance or mixture of substances intended for preventing, repelling, mitigating, or destroying weed, insects, diseases, rodents, or nematodes and any substance or mixture of substances intended for use as a plant regulator, defoliant or desiccant shall be considered as pesticide.

5-1.16 **SOUND AND LIGHT CONTROL REQUIREMENTS.** The Contractor shall comply with all local sound control, light control, and noise level rules, regulations and ordinances which apply to any Work performed pursuant to the Contract. Work shall not begin before 7 a.m. nor occur after 7 p.m., unless otherwise permitted by the City.

Each internal combustion engine, used for any purpose on the Work or related to the Work, shall be equipped with a muffler, in good working order, of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without said

muffler.

5-1.17 **WEIGHT LIMITATIONS.** Unless expressly permitted elsewhere in the Contract Documents, the Contractor shall not operate construction equipment or vehicles of any kind which, laden or unladen, exceed the maximum weight limits set forth in Division 15 of the Vehicle Code over completed or existing base, surfacing, pavement or structures.

5-1.18 **ENVIRONMENTAL CLEARANCES; MITIGATION**

MONITORING PROGRAMS; AND REGULATORY AGENCY PERMIT

REQUIREMENTS. The Department will obtain all environmental clearances and other authorizations necessary for this project as set forth in the Contract Documents. The Contractor shall comply with the provisions, including giving notices during construction when required, of said authorizations. In the event the obtaining of said authorizations delays completion of all or any portion of the Work, an extension of time determined pursuant to the provisions in Section 6-1.08, "Liquidated Damages," of these General Conditions will be granted.

Contractor shall comply with: (1) all mitigation identified in the mitigation monitoring program (attached to and adopted as a component of the mitigated negative declaration or Environmental Impact Report) to mitigate impacts to protected natural resources; and (2) all related permit requirements issued by the regulatory agencies authorizing the project. Contractor shall defend, indemnify, and save and hold harmless the City, its officers, agents, employees, and volunteers from any fines, claims, suits, actions or regulatory sanctions of every name, kind and description brought forth, or on account of, damage to protected natural resources from or arising out of Contractor's negligence or willful misconduct in the performance of this Agreement.

5-1.19 **PERMITS AND LICENSES.** The Contractor acknowledges and agrees that, prior to the submission of its bid for the Work, it fully familiarized itself with the

requirements of all applicable federal, state, county and municipal laws, codes, rules, and regulations, as well as the conditions of any required licenses and permits.

The Contractor shall procure all permits and licenses, including any applicable building permits (except those procured or to be procured by the City which are listed elsewhere in the Contract Documents), in coordination with the Director, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the Work. Contractor shall be responsible for applying, paying all fees, and coordination for obtaining all permits for completion of the Work. All permits and licenses shall be obtained in sufficient time to prevent delays to the Work. Contractor will apply to the City for reimbursement for such permits costs. Accordingly, Contractor should not include the anticipated costs for permits in its bid, as the necessary permit costs will be reimbursed by the City.

The California Environmental Quality Act (Public Resources Code, Section 21000 to 21177) may be applicable to permits, licenses and other authorizations which the Contractor must obtain from State or local agencies in connection with performing the Work. The Contractor shall comply with the provisions of that Act in obtaining such permits, licenses and other authorizations, and all permits, licenses and other authorizations shall be obtained in sufficient time to prevent delays to the Work.

The Contractor shall maintain the applicable Contractor's license as identified in the Notice to Contractors and City business license for the duration of the Work.

5-1.20 **WATER POLLUTION.** The Contractor shall comply with all water pollution control rules, regulations, ordinances and statutes which apply to any Work performed pursuant to the Contract, including any water pollution control rules, regulations, and statutes, specified by the most current State of California NPDES General Permit for Stormwater

Discharges Associated with Construction Activity.

The Contractor shall take all necessary precaution to protect streams, vernal pools, ponds, reservoirs, and lakes from pollution with fuels, oils, bitumen, calcium chloride, and other harmful materials as consistent with the law. Also, the Contractor shall conduct and schedule operations so as to avoid discharging pollutants, such as but not limited to: sediment and silt to the storm drain system. The storm drain system consists of all facilities that are designed to convey stormwater to the Waters of the State as defined in the California Water Code. The storm drain system includes, but is not limited to, all streets, gutters, drain inlets, roadside ditches, streams, vernal pools, ponds, and lakes. Care shall be exercised to preserve roadside vegetation beyond the limits of construction.

5-1.21 **PROTECTION AND USE OF PROPERTY.** The Contractor shall be responsible for and provide and maintain all proper temporary walkways, covered walkways, barriers, roads, guards, railings, lights, warning signs, and take precaution at all times to avoid injury or damage to any person or any property, and upon completion of the Work, or at other times as directed, restore Premises and adjacent property to a proper condition. In the event of such injury or damage, Contractor shall report such injury and damage to City within forty-eight (48) hours of occurrence.

The Contractor shall protect adjoining property and nearby buildings, including City buildings, City roads, and public streets or roads, from dust, dirt, debris, or the nuisance arising out of the Contractor's operations or storage practices, and, if ordered by the Director, the Contractor shall provide and Install suitable safeguards, approved by the Director, to protect such objects from damage. If such objects are damaged by reason of the Contractor's operations, they shall be replaced or restored at the Contractor's expense.

If the Contractor damages any buildings, roads, utilities, or other property which belong to the City, or any Department or agency thereof, then the Director, at his or her option, may retain from the money due under the Contract an amount sufficient to insure repair of the damage.

The Director may make or cause to be made such temporary repairs as are necessary to restore to service any such damaged facility. The cost of such repairs shall be borne by the Contractor and may be deducted from any moneys due or to become due the Contractor under the Contract.

5-1.22 RESPONSIBILITY FOR DAMAGE AND INDEMNIFICATION.

The City of Roseville, its officers, agents, employees, and volunteers, including but not limited to the Director and his or her designee, shall not be answerable or accountable in any manner: for any loss or damage that may happen to the Work or any part thereof; for any loss or damage to any of the materials or other things used or employed in performing the Work; for injury to or death of any person, either workers or the public; or for damage to property from any cause which might have been prevented by the Contractor, its workers, or anyone employed by the Contractor or the Contractor's Subcontractors.

The Contractor shall be responsible for any liability imposed by law and for injuries to, or death of, any person including, but not limited to, workers and the public, or damage to property resulting from defects or obstructions, or from any cause whatsoever during the progress of the Work or at any time before its completion and final Acceptance.

To the fullest extent allowed by law, the Contractor shall defend (through counsel acceptable to the City), indemnify, and save and hold harmless the City, and its respective officers, agents, Subcontractors, employees, and volunteers, and the successors and assigns of

any of them, (hereinafter referred to as “Indemnitees”) from and against all claims, demands, liability, suits, actions, costs or expenses for any and all loss or damage, including but not limited to, personal injury, property damage, or economic loss, arising out of or resulting from allegations of (1) Contractor’s use of the City’s property or any activities or Work performed hereunder by the Contractor; (2) the Contractor’s performance of the Work under the Agreement; or (3) the Contractor’s breach of any provision of the Agreement. The duty of the Contractor to indemnify and save harmless includes the duties to defend as set forth in Civil Code Section 2778. The only exception to these provisions is that the Contractor’s obligations under this section will not apply to the extent that the claims, demands, liability, suits, actions, costs or expenses are caused by Indemnitees’ active negligence, willful misconduct, criminal acts, or for defects in design furnished by the Indemnitees, misconduct, criminal acts, or for defects in design furnished by the Indemnitees.

The Contractor waives any and all rights to any type of express or implied indemnity against the City, its officers, agents, employees, or volunteers.

The Contractor’s responsibility for such defense and indemnity obligations shall survive the termination or completion of this Contract for the full period of time allowed by law. The defense and indemnity obligations of this Contract are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Contract. The parties intend that the defense and indemnity obligations in this Contract shall be broadly construed.

Any person, firm or corporation that Contractor authorizes to Work on the City’s property including Subcontractors, shall be deemed to be an agent of the Contractor for purposes herein, shall be subject to all the applicable terms herein, and shall be within the scope of the Contractor’s indemnity obligation described herein.

In addition to any remedy authorized by law, so much of the money due the Contractor under and by virtue of the Contract as shall be considered necessary by the Department may be retained by the City until disposition has been made of such suits or claims for damages.

The retention of money due the Contractor shall be subject to the following:

A. The City will give the Contractor thirty (30) Days' notice of its intention to retain funds from any partial payment which may become due to the Contractor prior to Acceptance of the Contract. Retention of funds from any payment made after Acceptance of the Contract may be made without such prior notice to the Contractor.

B. No retention of additional amounts out of partial payments will be made if the amount to be retained does not exceed the amount being withheld from partial payments pursuant to Section 7-1.07, "Progress Payments," of these General Conditions.

C. If the City has retained funds and it is subsequently determined that the City is not entitled to be indemnified and saved harmless by the Contractor in connection with matter for which such retention was made, the Department shall be liable for interest on the amount retained at the legal rate of interest for the period of such retention.

5-1.23 **INSURANCE COVERAGE.**

A. Evidence of Maintenance Required. The Contractor shall, at its expense, procure and at all times maintain in full force and effect at a minimum the insurance required by this section on all of its operations; and the Contractor shall not allow any Subcontractor to commence work until similar insurance required of the Subcontractor has been obtained and filed. An original Certificate of Insurance, and copies of all required endorsements, all in a form approved by the Risk Manager, evidencing all required coverage or policies shall be filed after the award of the bid and prior to approval of the Contract by the City Council. Contractor shall

provide ten (10) days prior written notice to the City of any reduction of coverage limits or cancellation of the coverage or policies shall be given to the City of Roseville as Certificate holder.

B. Qualifying Insurers. With the exception of the State Compensation

Insurance Fund, all required insurance policies shall be issued by companies acceptable to the City and licensed to do business in the State of California and who hold a current policy holders alphabetic and financial size category rating of not less than AVII according to the most recent issue of Best's Insurance Reports.

C. Insurance Required.

1. Commercial General Liability (CGL): Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations with limits of no less than Two Million Dollars (\$2,000,000) per occurrence for bodily injury, personal injury and property damage for projects under One Million Dollars (\$1,000,000) and limits of no less than Five Million Dollars (\$5,000,000) per occurrence for bodily injury, personal injury and property damage for projects over One Million Dollars (\$1,000,000). If a general aggregate limit applies, either the aggregate limit shall apply separately to this project or the general aggregate limit shall be twice the required occurrence limit.

The Commercial General Liability insurance shall include the following, copies of which shall be provided:

a. Inclusion of the City of Roseville, and its officers, agents, employees, and volunteers, as additional insureds (except for workers' compensation) as respects services or operations under the Contract. The additional insured endorsement for the

general liability policy shall be at least as broad as the ISO CG 2010 10 01 combined with ISO CGL

Endorsement CG 2037 10 01. Any other endorsement must be approved in writing by the City. Endorsements must include coverage for on-going and completed operations, which coverage shall be maintained for four (4) years following completion of the Project. Endorsements shall cover the City of Roseville, its officers, agents, employees, and volunteers.

b. The insurance shall provide coverage for claims by one insured against another insured and the policies shall not contain any cross-suits exclusions, cross- liability exclusions, or insured versus insured exclusions. The policies shall not contain any classification exclusions purporting to deny coverage for any work to be performed by Contractor or any of its Subcontractors.

c. Stipulation that the insurance is primary and noncontributory, as evidenced by a separate endorsement (CG 20 01 04 13 or an equivalent) or section of the policy, and that neither the City nor its insurers will be called upon to contribute to a loss.

d. Such insurance shall specifically cover the contractual liability of the Contractor.

e. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.

f. Waiver of subrogation endorsement.

g. The Contractor shall furnish a certificate for the period covered.

2. Automobile Liability: Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), or if Contractor has no owned autos, Code 8 (hired) and Code 9

(non-owned), with limits of no less than One Million Dollars (\$1,000,000) per accident for bodily injury and property damage.

3. Workers' Compensation: In accordance with the provisions of the California Labor Code, Contractor is required to be insured against liability for Workers' Compensation or to undertake self-insurance. Statutory Workers' Compensation and Employers' Liability of at least One Million Dollars (\$1,000,000) shall cover all Contractors staff while performing any work incidental to the performance of this Agreement.

4. Professional Liability: Professional Liability (Errors and Omission) Insurance appropriate to Contractor's profession, with a limit of liability not less than One Million Dollars (\$1,000,000) per occurrence or claim and Two Million Dollars (\$2,000,000) aggregate to cover all design and engineering services rendered by Contractor pursuant to the Agreement. Coverage must commence from the first day that Contractor or any of its Subcontractors provided any design or engineering services in connection with the Project.

5. Builder's Risk/Course of Construction Insurance (If Required by Risk Management): The Contractor shall be responsible for all loss, damage or destruction whatsoever to the work called for by this Contract until the approval of a Notice of Completion or acceptance of the Work if no Notice of Completion is to be recorded.

The Contractor shall secure "All Risk" type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the work performed under this Contract (the value is presumed to be the Contract amount unless otherwise stated in Supplemental Conditions) and all materials, equipment, or other items to be incorporated therein while the same are located at the construction site, a bonded warehouse, or its place of manufacture. At any time, the policy shall cover the value of the work completed. The policy shall cover hazards

including the losses due to fire, explosion, hail, rain, lightning, flood (separate insurance as needed), vandalism, malicious mischief, wind, collapse, aircraft, and smoke.

The policies providing such insurance shall name the City as a loss payee as its respective interests may appear, and certified copies of such policies shall be filed with the City. The maximum deductible allowable under the Builder's All Risk policy shall be five percent (5%) of the Contract amount.

Builder's Risk Insurance is not required for coverage of losses in excess of five percent (5%) of the Contract amount for damages resulting from earthquake in excess of a magnitude of 3.5 on the Richter scale, or tidal waves. Coverage in the amount of five percent (5%) of the Contract amount for such losses is required.

6. Pollution Coverage: Contractor shall procure pollution liability coverage or other insurance covering claims for bodily injury or property damage arising out of the abatement, removal, storage, transportation, or other exposure to hazardous materials or pollutants, in limits not less than Two Million Dollars (\$2,000,000). Contractor shall add the City and all parties required to be indemnified by Contractor as additional insured on all pollution liability policies.

7. Higher Coverage Limits: If Contractor maintains higher coverage limits than the amounts shown above, then the City requires and shall be entitled to coverage for the higher coverage limits maintained by Contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City.

8. Claims Made Coverage: Liability insurance coverage may not be written on a "claims made" or modified occurrence basis. The Certificate of Insurance must

clearly provide that the coverage is on an “occurrence” basis.

5-1.24 **OTHER INSURANCE PROVISIONS.**

A. The requirements of the Standard Specifications as to types and limits of insurance coverage to be maintained by the Contractor, and any approval of insurance by the City, are not intended to, and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Contractor pursuant to the Contract, including, but not limited to, the provisions concerning indemnification, nor preclude the City from taking any other action available to it under any other provision of the Contract or law.

B. The City acknowledges that some insurance requirements contained in these Standard Specifications may be fulfilled by self-insurance on the part of the Contractor. However, this shall not in any way limit liabilities assumed by Contractor under the Contract. Any self-insurance must be approved in writing by the City, in its sole discretion and shall not reduce the limits of liability. Any deductibles or self-insured retentions (“SIR”) must be declared on the certificate of insurance and approved by City in writing. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.

C. The Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Contract, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor’s work. Furthermore, the Contractor shall require its subcontractors to agree to be bound to the Contractor and the City in the same manner and to the same extent as the Contractor is bound to the City under this Contract. Additionally, the Contractor shall obligate its subcontractors to

comply with these

same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of the City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request. Alternatively, the Contractor may insure subcontractor(s) under its own policy.

D. The City, its officers, agents, employees, and volunteers are to be covered as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the Contractor; and with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts or equipment furnished in connection with such work or operations. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Insurance Code Section 11580.04.

E. The limits of insurance required in this Contract may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of the City (if agreed to in a written contract) before the City's own insurance shall be called upon to protect it as a named insured.

F. The insurance procured by Contractor shall be subject to the approval of the City, but any acceptance of insurance certificates by the City shall in no way limit or relieve Contractor of its duties and responsibilities under the Agreement.

G. Contractor shall be responsible for all premiums, deductibles, and self-insured retention applicable to the insurance it is required to procure under the Contract. All deductibles or self-insured retentions over five hundred thousand dollars (\$500,000) must be

approved by the City, in writing. Contractor shall be responsible for all deductibles, self-insured

retention payments, and/or increased premiums incurred if the City's policies of insurance are forced to cover damages or respond to claims for which Contractor or its Subcontractors were obligated to provide insurance under the Contract.

H. Failure of the City to enforce in a timely manner any of the requirements of these insurance provisions shall not act as a waiver to enforcement of any of these provisions at a later date.

I. Contractor's indemnity obligations shall not be limited by these insurance provisions and shall survive the expiration of the Contract and the insurance provisions of the Contract shall likewise not be limited by the indemnity provisions of the Contract.

J. THE CITY RESERVES THE RIGHT TO WITHHOLD ANY PROGRESS PAYMENTS TO THE CONTRACTOR IN THE EVENT OF NONCOMPLIANCE WITH ANY INSURANCE REQUIREMENTS.

5-1.25 **THIRD PARTY BENEFICIARY.** No provisions in the Contract

Documents shall in any way inure to the benefit any third party (including the public at large or any member thereof) so as to constitute such person a third party beneficiary of the Contract, or of any term or condition or other provision of the Contract or otherwise give rise to any cause of action in any person not a party to the Agreement, except as expressly provided elsewhere in the Contract Documents.

5-1.26 **COORDINATION AND ACCESS.** The Contractor acknowledges that the City may award, or has already awarded, other construction contracts for additional work or may perform additional work with its own forces and that such work may affect the Work under this Agreement. Additionally, the Contractor acknowledges that the State and other public and private agencies may be granted a right-of-entry by the City for the purpose of constructing

facilities within and adjacent to the Work Site. It is the obligation of the Contractor to coordinate its Work with the work of others working within or adjacent to the City's property.

During performance of its Work, the Contractor shall not have exclusive access to or use of the work areas. The City may also require that certain facilities and areas be used concurrently by the Contractor and by other contractors working in the area. When two (2) or more contractors are employed on related or adjacent City work, each shall conduct its operations in such a manner as not to cause any unnecessary delay or hindrance to the other.

Each contractor shall be responsible to the other for all damage to any work, to persons or property caused to the other by its operations, and for loss caused the other due to any unnecessary delays or failure to finish the work within the time specified for completion.

If any party of the Contractor's Work depends on the work of any other contractor and/or the City for proper execution and/or results, the Contractor shall promptly notify the City of any discrepancies and/or defects in said other work that would render its work unsuitable for proper execution and/or results prior to proceeding with the Contractor's own Work. If it becomes necessary, the City will resolve coordination and access problems.

The Contractor and its representative in charge of the Work shall familiarize themselves with the City's property and Work Site, and adjacent surroundings in the vicinity of said Work, and any private or public operations on adjoining properties.

5-1.27 OCCUPANCY BY THE DEPARTMENT PRIOR TO

ACCEPTANCE. The City may at any time notify the Contractor in writing that it intends to take Beneficial Occupancy of any portion of the Work even though the Work may not be substantially complete. Unless the reason for the City's taking Beneficial Occupancy is that the Contractor has not completed the Work (or portions thereof) in accordance with the Contract

Time, the City's Beneficial Occupancy shall relieve the Contractor from its responsibility for maintenance, loss or damage to that portion of the Work for which the City has taken Beneficial Occupancy other than that resulting from the Contractor's act or omission, negligence, willful misconduct or breach of warranty.

Should the Work (or portion thereof) not be completed in accordance with the Construction Schedule within the Contract Time (as adjusted under the terms of the Contract Documents), the City shall have the right, but not the obligation, to take Beneficial Occupancy of the Work. In such event, the Contractor shall not be entitled to any additional compensation on account of said occupancy by the City, nor shall the Contractor be relieved of any of its responsibilities under the Contract Documents, including, without limitation, Contractor's obligation to complete the Work in accordance with the Construction Schedule.

Beneficial Occupancy shall not be deemed an Acceptance by the City either of the Work or of any portion thereof, nor will it relieve the Contractor of full responsibility for correcting defective Work or materials found at any time before the formal written Acceptance of the entire Contract by the Director or during the full warranty period after such Acceptance, as provided in Section 7-1.12, "Warranty," of these General Conditions.

The City's Beneficial Occupancy shall not relieve the Contractor of its responsibility to maintain all insurance and bonds required under the Contract Documents until the entire project is accepted by the City.

5-1.28 RIGHT TO OPERATE UNSATISFACTORY FACILITIES AND

EQUIPMENT. If, after Installation, the operation or use of the facilities or equipment to be furnished under this Contract proves to be unsatisfactory to the Director, the City shall have the right to operate and use such facilities or equipment until they can, without damage to the City,

be taken out of service for correction or replacement. Such period of use of the defective facilities or equipment, pending correction or replacement, shall in no way decrease the warranty period required for the acceptable corrected or replaced facilities or equipment.

5-1.29 **CONTRACTOR'S RESPONSIBILITY FOR THE WORK.** Except as otherwise provided herein, the Contractor shall have the charge and care of the Work and shall bear the risk of injury or damage to any part of the Work by the action of the elements or from any other cause whether arising from the execution or from the nonexecution of the Work until the Acceptance of the Contract by the Director. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the Work occasioned by any cause before its completion and Acceptance, and shall bear the expense thereof. In case of suspension of Work from any cause whatever, the Contractor shall be responsible for the Work and it shall also be responsible for all materials, and shall properly store them if necessary, and shall provide suitable drainage and erect temporary structures where necessary.

The Contractor will be relieved of responsibility for any injury or damage to the Work caused by the following:

- A. An earthquake in excess of a magnitude of 3.5 on the Richter Scale or a tidal wave, when the effect of such has been proclaimed a disaster or state of emergency by the Governor of the State of California or by the President of the United States, or was of such magnitude at the site of the Work as to have been sufficient to have caused a proclamation of disaster or state of emergency, had it occurred in a populated area.
- B. Occupancy and use by the Department or the public prior to the completion of the entire project.
- C. Acts of the Federal Government or the public enemy.

5-1.30 **RESPONSIBILITY FOR UTILITIES.** The Contractor shall be responsible at its own cost for any and all Work, expense or special precautions caused or required by the existence or proximity of utilities encountered in performing the Work, including without limitation, repair of any or all damage and all hand or exploratory excavation required. The Contractor is cautioned that such utilities may include communication cables or electrical cables which may be high voltage, and when working or excavating in the vicinity of such cables, or the ducts enclosing such cables, the Contractor shall undertake at its own cost any special precautions required. Suitable warning signs, barricades, and safety devices shall be erected as necessary or required.

However, if during the course of the Work the Contractor encounters utility Installations which are not shown or indicated in the Contract Documents or which are found in a location substantially different from that shown, and such utilities are not reasonably apparent from visual examination, then the Contractor shall promptly notify the Director in writing. Where necessary for the Work of the Contract, the Director shall issue a written order to the Contractor to make such adjustments, rearrangement, repair, removal, alteration, or special handling of such utility, including repair of the damaged utility. The Contractor shall perform the Work described in such written order, and compensation therefor will be made in accordance with Section 3 of these General Conditions relating to changes in the Work. Except for the items of cost specified in said Section 3, the Contractor shall receive no compensation for any other cost, damage, delay, interference, or hindrance to him or her due to the presence of such utility. If the Contractor fails to give the notice specified above and thereafter acts without instructions for the Director, then the Contractor shall be liable for any or subsequent to discovery thereof, and the Contractor shall repair and make good such damage at its own cost.

The precise location of underground facilities can only be determined by careful probing or hand digging in compliance with Article 6 of the Cal/OSHA Construction Safety Orders which states in part:

“Prior to opening an excavation, effort shall be made to determine whether underground installations, i.e., sewer, water, fuel, electric lines, etc., will be encountered, and if so, where such underground installations are located. When the excavation approaches the approximate location of such an installation, the exact location shall be determined by careful probing or hand digging, and, when it is uncovered, adequate protection shall be provided for the existing installation.” The location of known existing utilities and pipelines are shown on the Contract Drawings in their approximate locations. Some of the locations include multiple conduits. The Contractor shall exercise care in avoiding damage to those facilities which are to remain in service subsequent to the construction of the particular new facility involved and the Contractor will be held responsible for any repairs if damaged. The Contractor shall also exercise care in maintaining those pipes and facilities required for continuing operation of the existing facilities until such time as they can be abandoned. There is no guarantee that all utilities or obstructions are shown on the Contract Drawings or that the locations indicated are accurate.

The Contractor shall exercise extreme caution in working in the area adjacent to the existing pipelines and utility services. It is essential that all the existing facilities be maintained in service. Construction of the connections between the existing facilities and the new facilities shall be at times and during periods acceptable to the City. The Contractor shall advise the Director in writing of its proposed Construction Schedule for these connections at least forty-eight (48) hours in advance.

The Contractor shall uncover all piping and conduits, to a point one foot (1') below the pipe, where crossings, interferences, or connections are shown on the Contract Drawings, prior to trenching or excavating for any pipe or structures, to determine actual elevations. New pipelines shall be laid to such grade as to clear all existing facilities which are to remain in service. If the Contractor does not expose all required utilities, it shall not be entitled to additional compensation for Work necessary to avoid interferences nor for repair to damaged utilities. Excavations around underground electrical ducts and conduits shall be performed using extreme caution to prevent injury or damage to workers and to the electrical ducts or conduits.

5-1.31 **PROPERTY RIGHTS IN MATERIALS.** Nothing in the Contract shall be construed as vesting in the Contractor any right of property in the materials used after they have been attached or affixed to the Work or soil or after partial payment has been made as provided in Section 7-1.07, "Progress Payments," of these General Conditions for material delivered on the ground or stored subject to or under the control of the City and unused. All such material shall become the property of the City upon being so attached or affixed or upon payment for materials delivered on the ground or stored subject to or under the control of the City and unused, as provided in said Section 7-1.07.

5-1.32 **COURT ORDERED DELAY.** If, pursuant to court order, the Department temporarily suspends performance of all or any portion of the Work, an extension of time determined pursuant to the provisions in Section 6-1.08, "Liquidated Damages," of these General Conditions will be granted.

5-1.33 **NO PERSONAL LIABILITY.** Neither the Director, nor any other officer or authorized employee of the City, shall be personally responsible for any liability arising under or by virtue of the Contract.

5-1.34 **RIGHTS IN LAND AND IMPROVEMENTS.** The Contractor shall make no arrangements with any person or entity to permit occupancy or use of any land, structure or building within the limits of the Work, for any purpose whatsoever, either with or without compensation, in conflict with any agreement between the City and any third party owner, former owner, or tenant of such land, structure or buildings. The Contractor shall not occupy City-owned property outside the limit of the Work shown on the Contract Drawings unless it obtains prior approval.

5-1.35 **ANTITRUST CLAIMS.** The Contractor's attention is directed to the following provision of Public Contract Code Section 7103.5(b), which is applicable to the Contractor and its Subcontractors:

“ In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the contractor or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the contractor, without further acknowledgement by the parties.”

5-1.36 **RIGHTS TO DRAWINGS, TECHNICAL DATA PATENTS.** Shop

Drawings and Working Drawings submitted to the City by the Contractor, Subcontractor or any lower tier Subcontractor pursuant to the Agreement, are the property of the City and the City may use, and disclose in any manner and for any purpose, Shop Drawings and Working Drawings delivered under the Contract.

Technical Data including manuals or instructional materials, computer or microprocessor software which are delivered or submitted to the City by the Contractor, Subcontractor, or any lower tier Subcontract pursuant to the Contract are the property of the City, and the City may use or disclose same in any manner and for any purpose.

The Contractor shall assume all costs arising from the use of patented materials, equipment, devices, or processes used on or incorporated in the Work, and shall defend, indemnify and save and hold harmless the City, and its duly authorized representatives, from all suits at law, or in equity, and actions of every nature for, or on account of the use of any patented materials, equipment, devices or processes. In case some materials, equipment, devices or processes are held to constitute an infringement and their use enjoined, the Contractor, at its expense, shall:

1. Secure for the City the right to continue using said materials, equipment, devices or processes by suspension of the injunction or by procuring a license or licenses; or
2. Replace such materials, equipment, devices, processes; or
3. Modify them so that they become non-infringing or remove the enjoined materials, equipment, devices or processes and refund the sums paid therefor without prejudice to any other rights of the City.

5-1.37 **PAYMENT OF TAXES.** Contractor shall pay all taxes and duties applicable to and assessable against any Work, equipment, materials, services, processes, and

operations incidental to or involved in the Agreement, including but not limited to, retail sales and use, transportation, export, import, business, and special taxes. The Contractor is responsible for ascertaining and acquainting itself with such taxes and making all necessary arrangements to pay them. The Contractor will maintain records that are auditable records, and these records shall be subject to the City's review to verify that Contractor's tax payments are current at all times.

The Contract Price paid for the Work shall include full compensation for all taxes which the Contractor is required to pay, whether imposed by Federal, State or local government, including, without being limited to, Federal excise tax. No tax exemption certificate nor any document designed to exempt the Contractor from payment of any tax will be furnished to the Contractor by the Department, as to any tax on labor, services, materials, transportation, or any other items furnished pursuant to the Contract.

The Contractor shall withhold and pay any and all sales and use taxes, withholding taxes, whether Federal, State, or local, Social Security taxes, State Unemployment Insurance charges and all other taxes which are now or hereafter may be required to be paid or withheld under any laws.

5-1.38 **GRATUITIES AND CONFLICT OF INTEREST.** The Contractor shall not offer or provide gratuities in the form of gifts, entertainment, loans, meals, rewards, and/or services to representatives of the City, including but not limited to, officers, employees, agents, Engineering Service Consultants, Consulting Engineers and Architects, Inspectors and/or Testing Agencies retained by the City. If it is found that the Contractor has violated this provision, the Contract may be subject to termination for default as defined elsewhere in these General Conditions.

During the term of the Contract and until the final payment has been made to the Contractor, the Contractor shall not employ or compensate in any manner whatsoever, the City's officers, employees and authorized representatives, agents, and any Engineering Service Consultants, Consulting Engineers and Architects, Inspectors, and/or Testing Agencies retained by the City. Any exception to the employment or compensation to any of the above named parties must be made in writing by the City. If the Contractor offers or provides employment or compensation to those named above during the term of the Contract, the Contract may be subject to termination for default.

5-1.39 **COOPERATION.** Should construction be under way by City forces or other forces or by other Contractors within or adjacent to the limits of the Work or should Work of any other nature be under way by such forces within or adjacent to said limits, the Contractor shall cooperate with all such forces to the end that any delay, interference or hindrance to their Work will be avoided. The right is reserved to perform other or additional Work at or near the site at any time, by the use of such forces.

5-1.40 **DIGGING TRENCHES OR OTHER EXCAVATIONS.** In the event any work involves digging trenches or other excavations that extend deeper than four feet (4') below the surface, City and Contractor shall comply with the following:

A. The Contractor shall promptly, and before the following conditions are disturbed, notify City in writing of any:

1. Material that the Contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.

2. Subsurface or latent physical conditions at the site differing from those made available to Contractor for inspection as provided in the project proposal.

3. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract.

B. The City shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the Work shall issue a Change Order under the procedures described in the Contract.

C. In the event that a dispute arises between the City and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the Work, the Contractor shall not be excused from any scheduled completion date provided for by the Contract, but shall proceed with all work to be performed under the Contract. The Contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between the contracting parties. However, no claim of the Contractor under this clause shall be allowed unless the Contractor has given the notice required by this Section. No claim by the Contractor for an equitable adjustment hereunder shall be allowed if asserted after final payment under this Contract.

5-1.41 **CONTRACTOR REGISTRATION.** No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this Contract, the

Contractor and its subcontractors shall have a continuing legal obligation to maintain current

registration with the Department of Industrial Relations. The Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

5-1.42 **CITY OF ROSEVILLE ENCROACHMENT PERMITS AND**

RIGHTS-OF-WAY. The Contractor need not obtain a separate encroachment permit from the City prior to construction within street rights-of-way or other City rights-of-way. Execution of the Contract by the City shall be deemed an encroachment permit for work required by the Contract within rights-of-way. All work shall conform to the rules and regulations of encroachment permits and shall be subject to the inspection and approval of the Director and City Engineer.

To the extent indicated in the Contract Drawings, the City will provide the rights-of-way over private lands or the site to enable the Contractor to perform its work. The Contractor shall be solely responsible for securing any additional rights-of-way desired by the Contractor. The City will not be a party to nor assume any liability for any separate agreements reached between the Contractor and any third parties with respect to these additional rights-of-way. The Contractor shall procure evidence that agreements are in place with said third parties before the Contractor uses those areas covered by the agreements. Any damage to such private lands caused by the Contractor's operations shall be the sole responsibility of the Contractor.

SECTION 6 PROSECUTION AND PROGRESS

6-1.01 **SUBLETTING AND SUBCONTRACTING.** The Contractor shall be responsible for all Work performed under the Contract. The Contractor shall give its personal attention to the fulfillment of the Contract and shall keep the Work under its control. Nothing in the Contract Documents shall create any contractual relationship between the City and any Subcontractor. The Contractor is fully responsible to the City for the acts and omissions of its Subcontractors of any tier. When any Subcontractor fails to prosecute a portion of the Work in a manner satisfactory to the Director, that Subcontractor shall not again be employed on the Work. Although the sections of the Contract may be arranged according to various trades, or general grouping of the Work, the Contractor is not obligated to sublet the Work in such manner. The Director will not arbitrate disputes among Subcontractors or between Contractor and one or more Subcontractors concerning responsibility for performing any part of the Work.

The on-site production of materials produced by other than the Contractor's own forces shall be considered as subcontracted. The erection, establishment or reopening of on-site plants for production of materials and the operation thereof in the production of materials for use on the Work shall conform to the requirements relating to labor set forth in the Contract Documents.

The Contractor shall also be responsible for coordinating the Work performed by Subcontractors and Suppliers.

The Contractor shall not substitute any person as Subcontractor in place of a Subcontractor listed on its bid proposal without the written approval of the Director. Substitutions must be in accordance with the provisions of the "Subletting and Subcontracting

Fair Practices Act” beginning with Public Contract Code Section 4100. Violations of this Act by the Contractor may subject it to penalties which may include cancellation of Contract, Assessment of ten percent (10%) of the Subcontractor's bid, and disciplinary action by the Contractors State License Board.

The Contractor shall pay any Subcontractors approved by the City for work that has been satisfactorily performed no later than seven (7) Days from the date of Contractor’s receipt of progress payments by the City. Within seven (7) Days after receipt from the City of funds attributable to work performed by a Subcontractor, Contractor shall release any retainage payments withheld to the Subcontractor. In the event Contractor does not make progress payments or release retention to Subcontractors in accordance with the time period specified herein, Contractor may be subject to prompt payment penalties per statute.

6-1.02 **ASSIGNMENT.** The performance of this Contract may not be assigned, except upon the written consent of the City Council of the City of Roseville. Consent will not be given to any proposed assignment which would relieve the original Contractor or its surety of their responsibilities under the Contract nor will the City consent to any assignment of a part of the Work under the Contract.

The Contractor may assign moneys due or to become due to it under the Contract and such assignment will be recognized by the City, if given proper notice thereof, to the extent permitted by law, but any assignment of moneys shall be subject to all proper set-offs in favor of the City and to all deductions provided for in the Contract and particularly all money withheld, whether assigned or not, shall be subject to being used by the City for the completion of the Work in the event that the Contractor should be in default therein.

6-1.03 **BEGINNING OF WORK.** After the execution of the Contract by both

parties, the City will issue the Notice to Proceed upon its determination that it is appropriate for the Contract Time to commence.

The Contractor shall begin Work within fifteen (15) Days after receiving the Notice to Proceed from the Director, subject to the requirements stated elsewhere in the Contract Documents regarding, among other things, the submittal of Baseline Schedule, and shall diligently prosecute the same to completion within the time limit provided in the Supplemental Conditions. Contractor shall also achieve any and all Contract milestones as described elsewhere in the Contract Documents.

The Contractor shall notify the Director, in writing, of its intent to begin Work at least seventy-two (72) hours before Work is begun. The notice shall be delivered to the Director and shall specify the date the Contractor intends to start. If the project has more than one (1) location of Work, a separate notice shall be given for each location.

The Contractor is not authorized to perform any Work until it has received a Notice to Proceed from the City. Should the Contractor begin Work in advance of receiving notice that the Contract has been approved as above provided, any Work performed by it in advance of the said date of approval shall be considered as having been done by the Contractor at its own risk and as a volunteer unless said Contract is so approved thereafter.

6-1.04 **PROGRESS SCHEDULE.**

A. Preliminary Progress Schedule. The Contractor shall submit to the Director, within twenty (20) Days after date of the Notice to Proceed, a Preliminary Progress Schedule covering the Contractor's activities over the first three (3) months of operation in detail and the remainder of the project in summary. The Preliminary Progress Schedule shall schedule the project within the Contract Time for completion of the Work, and shall be subject to

favorable review by the Director.

B. CPM Schedule. The Contractor shall submit an acceptable Critical Path

Method (CPM) Schedule to the Director within thirty (30) Days after the receipt of the Notice to Proceed. Subsequent revisions to said schedule shall be submitted as set forth hereinafter. The requirement for the CPM schedule is included to allow for adequate planning and execution of the Work, to determine the critical nature of delays, and to assist the Director in appraising the reasonableness of the proposed schedule and evaluating progress of the Work. The CPM schedule submitted under this Section shall utilize a CPM format, either the precedence or arrow diagramming method. The definitions of CPM terms and functions shall be as provided in the Associated General Contractors of America book *CPM in Construction, A Manual for General Contractors*, or a favorably reviewed alternative publication or reference. No progress payment will be made prior to submission and acceptance of the CPM Schedule.

1. The CPM schedule system shall consist of diagrams and accompanying mathematical analyses. The diagrams shall show elements of the project in detail and an entire project summary. Diagrams shall show the order and interdependence of activities and sequence in which the Work is to be accomplished as planned by the Contractor. The basic concept of a network analysis diagram shall be followed to show how the start of a given activity is dependent on the completion of preceding activities and its completion restricts the start of following activities. Detailed network activities shall include, in addition to construction activities, the submittal and favorable review of samples of material and Shop Drawings, the procurement of critical materials and equipment, fabrication of special material and equipment, and their Installation and testing. All activities of the City and the Director that affect progress and required Contract dates for completion of all or parts of the Work shall be shown. The

selection and number of activities shall be subject to favorable review by the Director. Summary networks shall be time scaled. Durations shall be in Days and shall not exceed fifteen (15) Days, except for submittal and delivery items. Where the duration of continuous Work exceeds fifteen (15) Days, Work items in the Construction Schedule shall be subdivided by location, approximate stationing or other sub-element of the Work.

The graphic network diagram shall include for each activity, the description, activity number, the estimated duration in Days, and all activity relationship lines. The network diagram shall be drawn for the early start of activities. All significant Submittals shall be scheduled along with manual Submittals and training on all large or critical pieces of equipment. If the precedence technique is utilized, the schedule project shall include a calendar in Work Days, a network report sorted by early start and a logic table report sorted by preceding Work item. If the arrow technique is utilized, the schedule report shall include a calendar in Work Days, a network report sorted by early start, a network report sorted by I-J numbers, and a network sorted by slack time and I-J numbers.

2. The critical path shall be shown on all reports and on the graphic network diagram. The activities which constitute the critical path shall be identified.

3. The mathematical analysis of the network diagram shall include a tabulation of each activity. The following information shall be furnished as a minimum for each activity:

- (a) preceding and following event numbers
- (b) activity description and number
- (c) estimated duration of activities
- (d) earliest start date (by calendar date)

- (e) earliest finish date (by calendar date)
- (f) actual start date (by calendar date)
- (g) actual finish date (by calendar date)
- (h) latest start date (by calendar date)
- (i) latest finish date (by calendar date)
- (j) slack or float
- (k) percentage of activity completed

4. The program shall be capable of accepting revised completion dates as modified by approved time adjustments and recomputations of all tabulation dates and float accordingly.

5. Submission and review of the system shall be as follows:

(a) The complete network analysis system, consisting of the detailed network mathematical analysis and network diagrams, shall be submitted within thirty (30) Days after receipt of the Notice to Proceed.

(b) The Contractor shall participate in a review and evaluation of the proposed network diagrams and analysis by the Director. Any revisions necessary as a result of this review shall be resubmitted for review by the Director within ten (10) Days. When completed, the favorably reviewed schedule shall then be the schedule to be used by the Contractor for planning, organizing and directing the Work and for reporting progress. If the Contractor thereafter desires to make significant changes in its method of operating and scheduling, the Contractor shall notify the Director in writing stating the reasons for the change.

(c) The Contractor shall submit at monthly intervals a report

of the actual construction progress. Each monthly report shall cover a period of approximately thirty

(30) Days ending around the 20th of each month. The monthly reports shall be submitted within ten (10) Days of the end of the reporting period.

(1) If the project is proceeding on schedule, the monthly update report may consist of a marked-up copy of the graphical network diagram. This submittal shall clearly indicate the status of any minor shifts in sequence or schedule and the estimated completion date or percent complete of all activities currently in progress. The Contract completion date shall also be indicated. The Contractor shall submit a narrative report relating to status of construction, the schedule, and factors which may affect the remainder of the schedule. The report shall show the activities or portions of activities completed during the reporting period. The report shall state the percentage of the Work actually completed and scheduled as of the report date and the progress along the critical path in terms of Days ahead or behind the allowable dates.

(2) If, in the opinion of the Director, the project is behind schedule, the monthly report shall include a revised network diagram and/or mathematical analysis showing the Contractor's proposed revised schedule. An analysis of the effect that the delay has on progress along other paths shall also be included in the report. The Contractor shall also submit a narrative report with each updated analysis which shall include but not be limited to a description of current and anticipated problem areas, delaying factors and their impact, and an explanation of corrective actions taken or proposed.

(3) Periodic report shall be submitted in sufficient copies to cover Contractor needs plus five (5) copies and an available electronic copy to be retained by the Director.

6. To the extent that the favorably reviewed initial Construction Schedule, or revisions thereto, indicate anything not jointly agreed upon, it shall be deemed to be not favorably reviewed by the Director. Any omission of Work from the detailed schedule, otherwise required for Contract compliance, will not excuse the Contractor from completing such Work within any applicable completion date. The CPM schedule shall be generated by computer methods.

C. Schedule Review. Once each month, on a date mutually agreed upon, but no later than seven (7) business days after the monthly schedule progress report date, a Work Site meeting will be held to review the Construction Schedule and job progress. The Contractor shall also attend weekly meetings scheduled by the Director to review the progress of the Work in the preceding week and in the subsequent week, coordinate the Work with public agencies or other Contractors as required, and allow the Director to plan his or her activities for testing, inspection, etc.

D. Schedule Revisions. The conditions under which the Director will require revisions of the Construction Schedule include the following:

1. When delay in completion of any Work item or sequence of Work items results in an estimated extension of project completion by either twenty (20) business days or by ten percent (10%) of the remaining duration of time to complete the Contract, whichever is less.

2. When delays in Submittals or deliveries make replanning or rescheduling of the Work necessary.

3. When the schedule does not represent actual prosecution and

progress of the Work.

4. When any change to the sequence of activities, the completion date for major portions of the Work, or when changes occur which affect the critical path.

5. When Contract Amendments or a Change Order necessitates schedule revision, the Contractor shall submit a schedule analysis of all Change Order Work with its proposal.

E. Cash Flow Projection. A cash flow projection shall be submitted with the Construction Schedule. This cash flow projection shall be revised and resubmitted when revisions of the Construction Schedule will result in changes to the projected cash flow.

F. Schedules showing project completion dates earlier than specified in the Supplemental Conditions will be rejected unless justification can be provided for early completion.

6-1.05 **SCHEDULE OF VALUES.** Prior to preparation of the first estimate for a progress payment, the Contractor shall submit for favorable review by the Director a detailed Schedule of Values or cost breakdown of the Work under each bid item awarded. The breakdown will then become the basis for partial payment determination. Elements of Work shall be grouped by structure, pipeline, system, etc. Within each grouping, Work should be itemized by readily measurable quantities of Work complete in place. For example, concrete should be in units of cubic yards including form Work and reinforcing steel. Move-on costs, bond and insurance costs, and Overhead costs shall not be considered an item of cost for this purpose but shall be prorated over items of Work. In the event the Schedule of Values is not favorably reviewed by the Director, another Schedule of Values shall be submitted that is mutually acceptable to the Contractor and the Director.

6-1.06 **CITY'S RIGHT TO STOP WORK.** The Director shall have the

authority to order the Contractor, in writing, to suspend the Work wholly or in part, for such period as the Director may deem necessary due to the failure on the part of the Contractor to correct Work that is not in accordance with the requirements of the Contract Documents or if Contractor persistently fails to carry out Work in accordance with the Contract Documents.

The Contractor shall immediately comply with the written order of the Director to suspend the Work wholly or in part. The suspended Work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Director.

Any stoppage of work under this section shall be at the Contractor's sole expense, and the Contractor shall have no claim against the City based on the Contractor's failure to perform the Work in accordance with the Contract Documents.

In addition to the City's right to stop Work, the City may order the Contractor to submit to the City at no additional cost to the City, additional information concerning Contractor's planned Work if the Contractor fails to promptly correct Work that is not in accordance with the requirements of the Contract Documents or persistently fails to carry out Work in accordance with the Contract Documents. The additional information ordered by the City may include, but is not limited to, preparation of Submittals or Working Drawings not otherwise required to be submitted under the Contract Documents.

In the event the City discovers that the Contractor has created an unsafe condition the City may arrange for other work forces to remedy the condition. Such remedial work shall be at the sole discretion of the City. If this action is required, the City may unilaterally terminate Work under the Contract, and will pay only for the quantities of Work actually performed, less the cost of the City's remedial Work. In the event that Work is not halted, the Contractor must take immediate steps to correct the situation. There will be no extra payment for Work required

to correct unsafe conditions.

The right of the City to suspend the Work shall not give rise to a duty on the part of the City to exercise this right for the benefit of the Contractor or any other person or entity. This right shall be in addition to and not in restriction or derogation of the City's other rights under the Contract Documents.

In the event of a suspension of Work under any of the conditions set forth in this Section 6-1.06, such suspension of Work shall not relieve the Contractor of its legal responsibilities as set forth in these General Conditions.

6-1.07 **TIME OF COMPLETION.** The Contractor shall complete the entire Work, including Installation, repairs, startup, troubleshooting, painting, and touchup, training, submittal or record drawings, and manuals, cleanup, demobilization, and all other Work within the number of Days set forth in the Supplemental Conditions. The time for completion includes an allowance for working time lost due to normal inclement weather.

Extensions of time may be allowed for unusual inclement weather under the provisions hereinafter described. Unusual inclement weather is weather which adversely affects "controlling" operations or the critical path of construction and which meets one of the following criteria:

A. For the particular calendar month in question, the number of individual Days with rainfall exceeding 0.10 inches exceeds the average number of such Days for that month over the immediately preceding five (5) years of record by at least three (3) Days.

B. For the particular calendar month in question, the total cumulative rainfall for that month exceeds the average cumulative rainfall for that month over the immediately preceding five (5) years of record by at least two inches (2").

Rainfall shall be measured at a publicly operated, maintained, and reported station in reasonable proximity to the construction site. A claim for delay shall indicate the period of rainfall which is claimed as “unusual,” the specific dates during which the unusual rainfall and subsequent wet soil conditions prevented Work, and the specific critical path tasks adversely affected by such unusual weather. A claim for delay due to unusual inclement weather shall be filed within ten (10) Days of the apparent end of the unusual inclement rainfall period, whether or not the monthly totals are available at that time. The burden of proof that weather meets the criteria for unusual weather shall be solely the responsibility of the Contractor.

It is the responsibility of the Contractor to order materials required for the Work properly and promptly on a Notice to Proceed. If evidence presented demonstrates that, in spite of the Contractor's efforts, government-established priorities controls delay material deliveries, suitable extension of time will be made.

If performance of extra Work ordered by the City or failure of the City to provide the necessary site for Installation affects construction tasks which are “controlling” or which are on the “critical path” of the Construction Schedule, suitable extensions of time will be made.

The Contractor shall not be entitled to a time extension for delays in activities on non-critical paths of the favorably reviewed schedule unless the duration of the excusable delay exceeds the total float of the activities being delayed. If the duration of an excusable delay does exceed the total float of the activities affected by the delay, the Contractor shall be entitled to an extension equal to the difference.

C. Determination that a day is a non-working day by reason of inclement weather or conditions resulting immediately therefrom, shall be made by the Director.

6-1.08 **LIQUIDATED DAMAGES.** It is agreed by the parties to the Contract

that in case all the Work called for under the Contract in all parts and requirements is not completed within the number of Days as set forth in the Supplemental Conditions, damage will be sustained by the City and that it is and will be impracticable and extremely difficult to ascertain and determine the actual damage which the City will sustain in the event of and by reason of such delay; and it is therefore agreed that the Contractor will pay to the City, the monetary amount indicated in the Supplemental Conditions in dollars (U.S.) per day for each and every calendar day of delay in completing the Work in excess of the number of Days prescribed and the number of additional calendar days, if any, authorized by Contract Change Order; and the Contractor agrees to pay said Liquidated Damages herein provided for, and further agrees that the City may deduct the amount thereof from any moneys due or that may become due the Contractor under the Contract.

It is further agreed that in case the Work is not finished and completed in all parts and requirements within the number of Days specified, the City shall have the right to increase the number of Days or not, as it may deem best to serve the interest of the City, and if it decides to increase the said number of Days, it shall further have the right to charge to the Contractor, its heirs, assigns or sureties and to deduct from the final payment for the Work all of any part, as it may deem proper, of the actual cost of engineering, inspection, superintendence, and other Overhead expenses which are directly chargeable to the Contract, and which accrue during the period of such extension, except that cost of preparation of final statement shall not be included in such charges.

6-1.09 **DELAYS AND EXTENSIONS TO THE WORK.** The Contractor must complete all Work within the time specified in the Agreement. The Contractor will be granted an extension of time and will not be assessed with liquidated damages or the cost of engineering

and inspection for any delay in substantially completing the Work (or parts thereof) beyond the time set forth in the Agreement, provided that such delay was caused by unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include acts of public enemy, fire, floods, abnormal weather (as described below), earthquakes, epidemics, quarantine restrictions, strikes, labor disputes and freight embargoes, fire, changes made pursuant to the provisions of “Changes in the Work” under Section 3 of these General Conditions or acts or neglect of the City not contemplated by the Contract Documents. In all cases, any extension of time is conditioned on the following:

1. That the cause is not due to the fault or negligence of the Contractor, and the Contractor has taken reasonable precautions to prevent and minimize the effects thereof; and
2. That the Contractor notifies the Director in writing within three (3) Days from the beginning of such delay specifying the nature of the delay and the measures that have been or will be taken to prevent or minimize the delay. Failure to submit written notice within this time period shall constitute an absolute waiver of any claim for a time extension.

No extension of time will be granted for a delay caused by a shortage of materials, unless the Contractor furnishes to the City documentary proof that it has diligently made every effort to obtain such materials from all known sources within reasonable reach of the work and further proof, as acceptable to the Director, that the inability to obtain such materials when originally planned did in fact cause a delay in Final Completion of the entire Work which could not be compensated for by revising the sequence of the Contractor’s operations. Only the physical shortage of material will be considered as a cause for extension of time, and no consideration

will be given to any claim that material could not be obtained at a reasonable, practical or economical cost or price, unless it is shown to the satisfaction of the City that such material could have been obtained only at exorbitant prices entirely out of line with current rates, taking into account the quantities involved and the usual practices in obtaining such quantities.

No extension of time will be granted for a delay caused by Contractor's staff turnovers, understaffing or insufficient quantity of qualified staff able to perform the necessary work.

The term "shortage of materials," as used in this section, shall apply only to materials, articles, parts or equipment which are standard items and shall not apply to materials, parts, articles or equipment which are processed, made, constructed, fabricated or manufactured to meet the specific requirements of the Contract Documents.

No extensions of time will be granted for delays that have no measureable impact on the completion of the Work (or parts thereof) under the Contract Documents. When extensions of time are granted, they will be limited to the period equivalent to the actual number of Days lost on the critical path or controlling operations of the Construction Schedule, taking into account the extent to which that delay could be decreased by reasonable mitigation measures by the Contractor. All requests for extensions of time must be supported with a critical path analysis showing the critical path and impacts to it. Contractor's failure to submit this analysis will be sufficient cause for denial of any request for a time extension.

Within a reasonable period of time after the Contractor submits the notice and information required by this section, the City will determine whether an extension of time is justified and, if so, the number of days for the extension.

Abnormal weather may be a valid basis for a time extension under the Agreement. "Abnormal Weather" occurs when the number of days of rain above 0.5 inches in a 24 hour

period exceeds the average for such rainfall in a particular month as determined by the National Weather Service. The Contractor will only be entitled to, at most, a time extension for the number of days of rain exceeding the average for that month in the locale where the Work is to be performed. If delays are caused by the Contractor or those for whom the Contractor is responsible, the Contractor will only be entitled to, at most, a time extension for the number of rain days exceeding the average for the month when the Work should have been performed.

In addition, before a time extension may be granted for abnormal weather, the Contractor must establish that the rain either significantly impacted at least sixty percent (60%) of the planned work of the controlling operations for a particular day or prohibited at least five (5) hours of work on the controlling operations planned for that day. Contractor shall employ reasonably methods to mitigate the impact of abnormal weather (i.e., dewatering, protection of site, etc.) The occurrence of rain during non-work hours or having minimal impact to work on the controlling operation shall not constitute a day of abnormal weather.

In the event that the project experiences favorable weather for a particular month (e.g., the number of actual rain days in a month less than that indicated above for allowable rain days per months), the additional float resulting from such favorable weather shall accrue to the project.

Any Contractor claim for damages or additional compensation based on delay shall be limited to only those circumstances where the Contractor has fulfilled each of the following three (3) requirements:

1. Contractor has established its entitlement to a time extension pursuant to the provisions described above regarding delay and extensions to the Work.
2. The delay was caused solely by the City's issuance of changes made pursuant to the

provisions of “Changes in the Work” under Section 3 of these General Conditions or by acts or neglect of the City.

3. The delay was unreasonable under the circumstances and not within the contemplation of the parties.

It is expressly understood and agreed that delays caused by the City will be non-compensable when there are concurrent delays caused by the Contractor. Also, the Contractor shall have no entitlement to additional compensation for any delay where there have been concurrent delays caused by non-compensable delays, including, but not limited to, fire, floods, earthquakes, epidemics, quarantine restrictions, strikes, labor disputes, and freight embargoes.

Contractor’s damages and/or additional compensation for delays will consist solely of the extended costs of maintaining the Contractor’s Work Site presence. The Contractor will not be entitled to any extended home office overhead.

Compensation for idle time of equipment will be determined in the same manner as determinations are made for equipment used in the performance of extra work paid for on a Force Account basis with the following exceptions:

1. The time for which compensation will be paid will be the actual normal working hours during which such delay conditions exists, but in no case will exceed eight (8) hours in any one day.
2. The days for which compensation will be paid will be each calendar day of the work week (defined elsewhere in the Contract Documents) and Legal Holidays, during the existence of such delay, except that when rental of the equipment is paid for under the provisions in Section 3-1.06C, “Force Account Payment – Equipment,” of these General Conditions, no payment will be made for delays in accordance with the

provisions of this section.

Actual loss shall be understood to include no items of expense other than idle time of personnel, cost of extra moving of equipment, and cost of longer hauls. Compensation for idle time of equipment will be determined as provided in this section and compensation for idle time of personnel will be determined pursuant to Section 3-1.06A, "Force Account Payment – Labor," of these General Conditions. No markup will be added in either case for Overhead and profit. The cost of extra moving of equipment and the cost of longer hauls will be paid for as extra work as provided pursuant to "Changes to the Work" elsewhere in the Contract Documents.

6-1.10 **TERMINATION.**

6-1.10A **TERMINATION OF AGREEMENT – CONVENIENCE OF**

CITY. The Department reserves the right to terminate the Contract at any time and for any reason if the Director determines that to do so would be in the best interest of the City. Any termination which is not based on the circumstances set forth in Section 6.1-10B below shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance of Work under the Contract is terminated, and the date upon which such termination becomes effective.

Upon the Contractor's receipt of a written Notice of Termination for convenience, the Contractor shall cease Work as to those portions of the project so terminated and shall undertake the steps outlined in Section 6-1.10B below.

1. Acceptance of the Contract as hereinafter specified shall not relieve the Contractor of responsibility for damage to materials except as follows:
 - a. The Contractor's responsibility for damage to materials for which partial payment has been made as provided in Section 7-1.07, "Progress

Payments,” of these General Conditions and for materials furnished by the City for use in the Work and unused shall terminate when the Director certifies that such materials have been stored in the manner and at the locations he or she has directed.

- b. The Contractor's responsibility for damage to materials purchased by the City subsequent to the issuance of the notice that the Contract is to be terminated shall terminate when title and delivery of such materials has been taken by the City.
- c. When the Director determines that the Contractor has completed the Work under the Contract directed to be completed prior to termination and such other Work as may have been ordered to secure the project for termination, the Contractor will recommend that the City formally accept the Work, and immediately upon and after such Acceptance by the City, the Contractor will not be required to perform any further Work thereon and shall be relieved of its contractual responsibilities for injury to persons or damage to property which occurs after the formal Acceptance of the project by the City.

2. The total compensation to be paid to the Contractor shall be determined by the Director on the basis of the following:

- a. The reasonable cost to the Contractor, without profit, for all Work performed under the Contract, including mobilization, demobilization and Work done to secure the project for termination. Reasonable cost will include a reasonable allowance for project Overhead and general

administrative Overhead not to exceed a total of seven percent (7%) of Direct Costs of such Work.

- b. A reasonable allowance for profit on the cost of the Work performed as determined under subsection (a), provided the Contractor establishes to the satisfaction of the Director that it is reasonably probable that it would have made a profit had the Contract be completed and provided further, that the profit allowed shall in no event exceed four percent (4%) of said cost.
- c. The reasonable cost to the Contractor of handling material returned to the vendor, delivered to the Department or otherwise disposed of as directed by the Director.
- d. A reasonable allowance for the Contractor's administrative costs in determining the amount payable due to termination of the Contract.

All records of the Contractor and the Contractor's Subcontractors, necessary to determine compensation in accordance with this Section, shall be open to inspection or audit by representatives of the Department at all times after issuance of the notice that the Contract is to be terminated and for a period of three (3) years, and such records shall be retained for that period.

After Acceptance of the Work by the Director, the Director may make payments on the basis of interim estimates pending issuance of the Final Statement, when in his or her opinion the amount thus paid, together with all amounts previously paid or allowed, will not result in total compensation in excess of that to which the Contractor will be entitled. All payments, including payment upon the Final Statement, shall be subject to deduction for prior payments and amounts, if any, to be kept or retained under the provisions of the Contract.

In the event that the City terminates this Contract under Section 6-1.10B below and it is determined for any reason that there was not sufficient cause to do so, the City's termination automatically will convert to a termination for convenience under this section and the terms and conditions outlined in this section automatically will be applied to effectuate the Contract termination. Thus, damages to which a Contractor may be entitled as a result of an improper default termination will be limited to the amounts provided for in this section.

The provisions of this section shall be included in all subcontracts.

6-1.10B **TERMINATION OF AGREEMENT - FOR CAUSE.** An

“Event of Default” as referred to in this section shall occur if the Contractor:

1. Fails to maintain progress of the Work in accordance with the requirements of the Contract Documents; or
2. Fails to prosecute the Work or any of its components in accordance with the Contract Documents; or
3. Persistently or repeatedly fails or refuses to supply sufficient properly skilled workers or proper material to permit the performance of the Work in accordance with the Contract Documents; or
4. Fails to make prompt payment to Subcontractors or Suppliers in accordance with the respective agreements between the Contractor and the Subcontractor and Contractor and Supplier; or
5. Fails to comply with applicable laws, ordinances or rules, regulations or orders of a public authority having jurisdiction over the Work; or
6. Abandons, assigns or sublets the Contract without approval of the City; or
7. Becomes bankrupt or is subject to appointment of a receiver on behalf of the

Contractor; or

8. Otherwise is guilty of a substantial breach of a provision of the Contract Documents.

Upon the City's reasonable belief that there has been an Event of Default by the Contractor, the City may elect to give the Contractor written notice thereof. The Contractor thereafter shall cure the default as soon as possible and in no event after ten (10) Days from the Contractor's receipt of the City's written notice.

If the Contractor does not timely cure its default, the City may, without waiver of any of its other rights and remedies, elect to terminate the Contract, or portion thereof.

Upon the City's election to terminate the Contract, or portion thereof, the City shall have the right to complete the Work, or portion involved, by whatever means and methods it deems expedient, including the hiring of others on such terms as the City deems advisable. The City shall have the right to take possession of the Contractor's materials, plant, tools, equipment and property of any kind provided by or on behalf of the Contractor for the purpose of the Work, or a portion of them, without being responsible to the Contractor for wear and tear. The Contractor shall have no rights in such property during its use by the City. The City shall not be required to obtain the lowest prices for completing the Work or a portion of it but shall make such expenditures as, in the City's sole judgment, best accomplish such completion.

The expense of completing such Work or portion thereof, together with a reasonable charge for engineering, managerial and administrative services, as certified by the City, shall be charged to the Contractor, and the expense so charged shall be deducted by the City out of such monies as may be due or may at any time thereafter become due to the Contractor. In case such expense is more than the sum which otherwise would have been payable to the Contractor under the Agreement, then the Contractor or its surety or sureties shall promptly pay the amount of

such excess so due. When the City terminates the Contract under this section, the Contractor shall not be entitled to receive any further payments until the Work is completed and there has been a final settlement of costs of completing the Work covered by such notice of default.

The City will issue to the Contractor a written notice specifying that the Contract, or portion thereof, is terminated. Upon receipt of said written notice and, except as otherwise directed in writing by the City, the Contractor shall:

1. Stop all Work under the Contract; or if partial termination, stop Work relating to the terminated portion of the Agreement;
2. Perform Work the City deems necessary to secure the Work Site for termination including measures to leave the Work Site in a safe condition;
3. Remove equipment from the site of Work, as specified by the City;
4. Take such action as is reasonably necessary to protect materials from damage;
5. Notify all Subcontractors and Suppliers that the Contract or portion thereof is being terminated and that their contracts or orders are not to be further performed unless otherwise authorized in writing by the City;
6. Provide the City with an inventory list of all materials previously produced, purchased or ordered from Suppliers for use in the Work and not yet used in the Work, including its storage location, and such other information as the City may request;
7. Dispose of materials not used in the Work as directed by the Director. It shall be the Contractor's responsibility to provide the City (a) with good title to all materials purchased by the City hereunder, including materials for which partial payment has been made by the City and (b) with bills of sale or other documents of title for such

materials;

8. Subject to the prior written approval of the City, settle all outstanding liabilities and all claims arising out of Subcontractors or orders for materials terminated hereunder. To the extent directed by the City, the Contractor shall assign to the City all rights, title and interests of the Contractor under subcontracts or orders for materials terminated hereunder. The City shall be at liberty to negotiate with and engage any Subcontractors who had contracted with the Contractor for the Work;
9. Furnish the City with the documentation required to be furnished by the Contractor under the provisions of the Contract Documents, including, on projects as to which Federal funds are involved, all documentation required under the Federal requirements included in the Agreement; and
10. Take such other actions as the City may direct.

If only a portion of the Work has been terminated, the Contractor shall perform the remainder of the Work in conformity with the Contract Documents and in such a manner as not to interfere with the City or others in their performance and completion of the portion of the Work which was terminated.

The City may recover from the Contractor the amount of any loss or damage, including consequential damages, suffered or incurred as a result of the Contractor's default.

SECTION 7 ACCEPTANCE AND PAYMENT

7-1.01 **ACCEPTANCE.** When the Contractor believes that the entire Work is fully and finally completed, including the satisfactory completion of inspections, tests, and documentation specified in the Contract Documents and completion of all punch list and clean-up items, the Contractor shall submit to the City a written request for final Acceptance within fifteen (15) Days thereafter, specifying that the Work is fully and finally completed and the date on which it was completed. Within thirty (30) Days after receipt of the request for final Acceptance, the City will inspect the Work and will either:

1. Reject the request for final Acceptance, specifying the defective and/or uncompleted portions of the Work; or
2. Notify the Contractor that the Work will be accepted by Resolution of the City Council of the City of Roseville, and a Notice of Completion will be caused to be recorded by the City Clerk; or
3. Notify the Contractor that the Work has been accepted by the City but no Notice of Completion will be recorded.

If the City rejects the request for final Acceptance, the Contractor shall promptly remedy the defective and/or uncompleted portions of the Work. Thereafter, the Contractor shall again submit a written request for final Acceptance of the Work, specifying a new date based on the date the defective and/or uncompleted portions of the Work were corrected. Thereafter, the foregoing procedure shall apply successively until the City has verified that the Work is fully and finally completed and accepted the Work by Resolution of the City Council or by written

notification from the Director. Immediately upon such Acceptance, the Contractor shall be relieved of the duty of maintaining the Work as a whole.

All warranties commence upon final Acceptance of the Work. The City's final Acceptance of the Work shall not be construed as an acceptance by the City of any latent defects discovered with regard to the Contractor's work. Furthermore, Contractor's obligations under Section 5-1.22 "Responsibility for Damage and Indemnification" shall still remain applicable after the City's grant of final Acceptance of the Work.

Prior to final Acceptance, the Contractor shall submit to the City the Record Documents and Operation and Maintenance Manuals as specified in the Contract Documents.

7-1.02 **SCOPE OF PAYMENT.** The Contractor shall accept the compensation provided in the Contract as full payment for furnishing all labor, materials, tools, equipment, and incidentals necessary to the completed Work and for performing all Work contemplated and embraced under the Contract; also for loss or damage arising from the nature of the Work, or from the action of the elements, or from any unforeseen difficulties which may be encountered during the prosecution of the Work until the Acceptance by the Director and for all risks of every description connected with the prosecution of the Work, also for all expenses incurred in consequence of the suspension or discontinuance of the Work as provided in the Contract; and for completing the Work according to the Contract. Neither the payment of any estimate nor of any retained percentage shall relieve the Contractor of any obligation to make good any defective Work or material.

No compensation will be made in any case for loss of anticipated profits.

7-1.03 **NOTICE OF POTENTIAL CLAIM.** The Contractor shall not be entitled to the payment of any additional compensation for any act or failure to act by the City,

including failure or refusal to issue a Change Order, or for the happening of any event, thing, occurrence or other cause unless the Contractor has given the City due written Notice of Potential Claim as hereinafter specified, provided, however, that compliance with this Section 7-1.03 shall not be a prerequisite as to matters within the scope of the notice provisions in Section 6-1.07, "Time of Completion," or the notice provisions in Section 6-1.08, "Liquidated Damages," of these General Conditions, nor to any claim which is based on differences in measurement or errors of computation as to correct quantities.

The written Notice of Potential Claim shall set forth the reasons for which the Contractor believes additional compensation will or may be due, the nature of the costs involved, and, insofar as possible, the amount of the potential claim. The said Notice as above required must have been given to the Director prior to the time that the Contractor shall have performed the Work giving rise to the potential claim for additional compensation, if based on an act or failure to act by the Director, or in all other cases within seven (7) Days after the happening of the event, thing, occurrence or other cause giving rise to the potential claim.

If the Notice of Potential Claim does not include complete information about the claim or the parties do not execute a Contract Change Order in connection with the Notice of Potential Claim, Contractor shall submit complete information about its claim for additional compensation and/or extension of time for performance within fifteen (15) Days after such work is performed. Failure to provide written notice of claim prior to undertaking such work or failure to timely submit a complete and specific information about the claim for additional compensation and/or extension of the time for performance shall be deemed a waiver and abandonment of such claim.

If there is a dispute over any claim, the Contractor shall continue to Work during the dispute resolution process in a diligent and timely manner as directed by the City, and shall be

governed by all applicable provision of the Agreement.

The Contractor shall maintain cost records of all Work that is the basis of any dispute.

On a daily basis, Contractor shall submit to City completed daily forms, the format of which will be acceptable to the City, with respect to the Contractor's costs of performing the disputed work.

These daily forms shall itemize all of Contractor's costs in performing the disputed work, including, but not limited to, all costs relating to materials, labor and equipment with respect to the disputed work. These daily forms shall provide names or identification and classification of affected workers, the hourly rate of pay and hours worked, and also the size, type, and identification number of equipment and hours operated. Said daily work forms shall be duly signed and verified by the Contractor or its authorized representative. The City's receipt of the Contractors' daily forms shall not constitute an approval of the Contractor's claim. Contractor's failure to submit the daily forms on a daily basis shall constitute a waiver of the Contractor's right to claim any additional compensation for the disputed work.

Each Contractor claim shall include full and complete information concerning the Claim.

Contractor shall provide a clear, concise recital of the basis, upon which the claim is asserted, including a designation of the provisions of the Contract Documents upon which the claim is based. Contractor shall also include a statement as to the amount of time and/or compensation sought pursuant to the claim; if Contractor's claim arises from an ongoing occurrence, Contractor shall so state in its claim, including a description of the specific Work activities affected by the claim. All costs, expenses or damages and extensions of time claimed shall be described in reasonable detail under the circumstances together with complete supporting documentation.

The City will review any timely Notice of Potential Claim and supporting information

submitted by Contractor. In conducting this review, the City shall have the right to require the Contractor to submit such additional or supporting documents, data and other information as the City may require.

If an agreement can be reached which resolves the Contractor's claim, the parties will execute a Contract Change Order to document the resolution of the claim. If the parties cannot reach agreement with respect to the Contractor's claim, the Contractor shall still be obligated to comply with the claim identification provisions identified in these General Conditions, including but not limited to Section 7-1.04.

It is the intention of this Section 7-1.03 that differences between the parties arising under and by virtue of the Contract be brought to the attention of the Director at the earliest possible time in order that such matters may be settled, if possible, or other appropriate action promptly taken. The Contractor hereby agrees that it shall have no right to additional compensation for any Claim that may be based on any such act, failure to act, event, thing or occurrence for which no timely written Notice of Potential Claim as herein required was filed.

7-1.04 **CLAIMS.** Contractor must submit all Claims, for which it has previously submitted a Notice of Potential Claim, prior to Acceptance of the Work. Each such Claim must be sent to the City by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the Claim.

Upon receipt of a Claim, the City shall conduct a reasonable review of the Claim and, within a period not to exceed forty-five (45) Days, or such further time as mutually agreed upon or necessary pursuant to Public Contract Code Section 9204, the City shall provide the Contractor a written statement identifying what portion of the Claim is disputed and what portion is undisputed. If the City does not respond to a Claim from the Contractor within the time

specified herein, such Claim shall be deemed rejected in its entirety.

Any payment due on an undisputed portion of the Claim shall be processed and made within sixty (60) Days after the City issues its written statement.

If the Contractor disputes the City's written response, or if the City does not respond within the time specified herein, the Contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the City shall schedule a meet and confer conference within thirty (30) Days for settlement of the dispute.

Within ten (10) business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the City shall provide the Contractor a written statement identifying the portion of the Claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the Claim shall be processed and made within sixty (60) Days after the City issues its written statement. Any disputed portion of the Claim, as identified by the Contractor in writing, shall be submitted to nonbinding mediation, with the City and the Contractor sharing the associated costs equally. The City and the Contractor shall mutually agree to a mediator within ten (10) business days after the disputed portion of the Claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the Claim remaining in dispute shall be resolved in accordance with Section 7-1.05 below.

7-1.05 **DISPUTE RESOLUTION PROCEDURE**. All Claims not resolved

pursuant to Section 7-1.04, shall be resolved pursuant to Public Contract Code Section 10240, et seq.

7-1.06 **STOP PAYMENT NOTICES.** The City, by and through the Department or other appropriate office or officers, may at its option and at any time retain out of any amounts due the Contractor, sums sufficient to cover claims, filed pursuant to Civil Code Section 9350, et seq., including an amount to provide for the reasonable cost of any litigation thereunder.

7-1.07 **PROGRESS PAYMENTS.** Within fifteen (15) Days after the effective date in the Notice to Proceed, but in any event prior to Contractor's first Application for Payment, the Contractor shall submit to the City a detailed Schedule of Values.

Upon its approval, the Schedule of Values will form a basis for determining the compensation payable to the Contractor based on its actual progress of Work with respect to each Lump Sum bid item. The City, prior to any progress payment being made, must approve the Schedule of Values.

At the Director's discretion the approved Schedule of Values may be used as the basis for calculating the adjustment in compensation for a lump sum bid item due to changes ordered by the Director. When an ordered change increases or decreases the quantities shown in an approved Schedule of Values, at the Director's discretion, the adjustment in compensation may be determined in the same manner specified for increases and decreases in the quantity of a bid item of work in accordance with Section 3-1.05(B), "Contract Price Adjustment," of these General Conditions.

The Contractor once in each month shall submit an Application for Payment, for approval by the Director. Contractor's Applications shall be based on the Schedule of Values submitted to the City. These applications shall be supported by: (1) documentation requested by the City to

substantiate the payment request; (2) statutory releases from Contractor and all Subcontractors and suppliers pursuant to Civil Code Sections 8132 and 8138; and (3) certified payroll records for the period for which payment is requested. Specifically, the Contractor will submit conditional waivers upon progress payment executed by all contractors and suppliers that will be receiving sums sought in the instant payment request and also submit unconditional waivers upon progress payment executed by all contractors and suppliers that have been paid to the date of the payment request. The Contractor shall certify that the Work for which payment is requested has been accomplished. When requested by the City, the Contractor shall submit receipts, invoices and other documentation that the City requires to be furnished for purpose of evaluating the application.

The City will pay the Contractor within thirty (30) Days after its receipt of an undisputed and properly submitted Application for Payment, after deducting all previous payments, retention, and other sums as described in the Contract Documents. Within seven (7) Days of its receipt of the Contractor's Application for Payment, the City will determine whether it complies with the provisions of the Contract Documents. As appropriate, the City will return the application to the Contractor accompanied by a document prepared by the City setting forth the reasons for the rejection. Thereafter, the Contractor shall correct and resubmit the Application for Payment. Progress payments may be withheld for Work that is not performed in accordance with the Contract Documents.

The City may deduct the following from each progress payment:

1. An amount equal to one hundred and twenty-five percent (125%) of the amount claimed under any stop payment notice or other lien filed against the Contractor, which includes an amount to provide for the reasonable cost of any litigation

thereunder.

2. Any Liquidated Damages or Assessments that have accrued as of the date of the Application for Payment.
3. Any sums expended by the City in performing any of the Contractor's obligations under the Agreement that the Contractor has failed to perform.
4. Any other sums that the City is entitled to recover from the Contractor under the terms of the Contract including damages to the City's property.
5. The failure of the City to deduct any of the above identified sums from a progress payment shall not constitute a waiver of the City's right to such sums.

No such estimate or payment shall be construed to be an acceptance of any defective Work or improper materials.

Under no circumstances will the City make payment to unlicensed Contractors. As a condition of payment, the Contractor is required to maintain the applicable Contractor's license as identified in the Notice to Contractors for the duration of the Work.

7-1.08 **PAYMENT FOR MATERIALS AND EQUIPMENT ON HAND.**

Partial payments may be made to the extent of seventy-five percent (75%) of the cost of materials and equipment plus delivery to be incorporated in the Work, provided that such materials and equipment meet the requirements of the Contract Documents and are delivered to acceptable sites on the plant site or at other sites in the vicinity that are acceptable to the City and only with the prior written approval by the City. Such delivered costs of stored or stockpiled materials and equipment may be included in the next progress payment after the following conditions are met:

A. Equipment and materials will only be eligible if given conditional or final

Acceptance by the Director and are in apparent compliance with favorably reviewed Submittals.

B. Only equipment or materials which have received favorable review of Shop Drawings will qualify.

C. The material or equipment has been stored or stockpiled adequately protected against damage in a manner acceptable to the Director at an approved site.

D. The Contractor has furnished the Director with acceptable evidence of the quantity and the quality of such stored or stockpiled materials or equipment with identification of where they will be incorporated into the project with Specification reference.

E. The Contractor has furnished the Director with satisfactory evidence that the material or equipment and transportation costs have been paid.

F. The Contractor has furnished the City legal title (free of liens or encumbrances of any kind) and lien releases to the material or equipment so stored or stockpiled.

G. The Contractor has furnished the City evidence that the material or equipment so stored or stockpiled is insured against loss by damage to or disappearance of such materials at any time prior to use in the Work.

It is understood and agreed that the transfer of title and the City payment for such stored or stockpiled materials or equipment shall in no way relieve the Contractor of its responsibility for furnishing and placing such materials or equipment in accordance with the requirements of the Contract Documents.

In no case will the amount of progress payments for materials or equipment on hand exceed the Contract Price for such materials or equipment or the Contract Price for the Contract item in which the material is intended to be used.

No partial payment will be made for stored or stockpiled living or perishable plant

materials.

The Contractor shall bear all costs associated with the progress payment of stored or stockpiled materials or equipment in accordance with the provisions of this Section.

7-1.09 **RETENTION ON PROGRESS PAYMENTS.** From each progress payment estimate, five percent (5%) will be deducted and held in retention by the City. The remainder, less any deductions described in Section 7-1.07, "Progress Payments," of these General Conditions, will be paid to the Contractor as progress payments.

Pursuant to Public Contract Code Section 22300, the successful Bidder may submit Securities in lieu of retention payments by the City. Upon the Contractor's request, the City will make payment of funds withheld from progress payments, pursuant to the requirements of California Public Contract Code Section 22300, if the Contractor deposits in escrow with the City or with a bank acceptable to the City, securities eligible for investment under California Government Code Section 16430, bank or savings and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by the Contractor and the City, upon the following conditions:

1. The Contractor shall bear the expenses of the City and the escrow agent in connection with the escrow deposit made.
2. Securities or certificates of deposit to be placed in escrow shall be of a value at least equivalent to the amounts of retention to be paid to the Contractor pursuant to this section.
3. Contractor shall enter into an escrow agreement satisfactory to the City, which agreement shall be substantially similar to the form provided in California Public Contract Code section 22300.

4. The Contractor shall obtain the written consent of the surety to such agreement.

7-1.10 **FINAL PAYMENT.** Final payment will be made only after Contractor has achieved Final Completion of the Work pursuant to the provisions of Section 7-1.01, “Acceptance,” of these General Conditions. Before final payment can be made, the Contractor shall have furnished the City with the following:

1. All Record Documents, catalogues, instruction sheets and information as required by the Contract Documents.
2. Conditional Waivers and Releases Upon Final Payment executed by Contractor and all Subcontractors and Suppliers, as provided by Civil Code Section 8136. Unconditional Waivers and Releases Upon Final Payment, as provided in Civil Code Section 8138, executed by Contractor and all Subcontractors and Suppliers, must be provided for all Subcontractors and Suppliers that have been paid in full.

Within thirty (30) Days of the date of the City’s Acceptance of the Work, the Contractor shall prepare and submit a Final Invoice, showing the proposed total amount due the Contractor, segregated by Bid item quantities, Change Order Work, and other basis for payments; deductions made or to be made for prior payment; and amounts previously retained. Prior invoices and payments shall be subject to correction in the proposed Invoice for Final Payment. Payments to the Contractor will be made only for actual quantities of the Contract items of work constructed in accordance with the Contract Documents.

The City will review the Contractor’s proposed Final Invoice and necessary changes or corrections will be forwarded to the Contractor. Within ten (10) Days thereafter, the Contractor

shall submit a revised proposed Final Invoice incorporating changes or corrections made by the City together with any new claims resulting therefrom. Upon approval by the City, the corrected proposed Final Invoice will become the approval Final Invoice.

If agreements are reached on all questions regarding the Final Invoice, the City will pay the entire sum found due on the approved application. However, the City will withhold sums sufficient to pay all unsettled claims for which stop payment notices have been filed pursuant to Section 9350, et seq. of the California Civil Code, together with the reasonable cost of any litigation thereunder.

Final payment will be made within thirty (30) Days after receipt of an approved Final Invoice and other required Submittals referenced above or within sixty (60) Days after Acceptance of the work by the City, whichever is later, provided, however, that if an approved Final Invoice has not been submitted within sixty (60) Days after Acceptance of the Work by the City, the City may elect to make payment of sums not in dispute without prejudice to the right of either the City or the Contractor in connection with such disputed sums. Notwithstanding the foregoing, if a Notice of Completion is recorded, final payment shall not be made prior to the expiration of the thirty-five (35) calendar day lien period. The start of this lien period is the date the Placer County Recorder's Office records the Notice of Completion.

The City may withhold from the Final Payment an amount not to exceed one hundred fifty percent (150%) of any amount in dispute between the City and the Contractor.

The making of Final Payment shall not operate to release the Contractor or its sureties from obligations arising under the Contract, the Contract bonds and warranties as herein provided. Specifically, the making of final payment shall not constitute a waiver and release of claims by the City arising from:

1. Unsettled or future liens;
2. Failure of the Work to comply with the requirements of the Contract Documents;
3. The terms of any warranties required by or contained in the Contract Documents;
4. The right to any insurance proceeds or the right to make any insurance or bond claims;
5. Any claims with respect to Contractor's obligations of indemnity with respect to claims asserted by third parties; or
6. Any latent deficiencies with the Work or Contractor's fraud.

7-1.11 **CLERICAL ERRORS.** Notwithstanding the provisions of Section 7-

1.10, "Final Payment," of these General Conditions, for a period of three (3) years after Acceptance of the Work, all estimates and payments made pursuant to said Section 7-1.10, are subject to correction for clerical errors in the calculations involved in the determination of quantities and payments. The Contractor and the City agree to pay to the other any sum due under the provisions of this Section 7-1.11, provided, however, if the total sum to be paid is less than \$100, no such payment shall be made.

7-1.12 **WARRANTY.** Notwithstanding inspections and Acceptance by the City of Work furnished under the Contract Documents, the Contractor hereby unconditionally guarantees that all materials and equipment furnished will be of good quality and new, that the Work will be free from defects in workmanship and materials and that the Work will conform to the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective.

This warranty by the Contractor is in addition to any warranties or guarantees required elsewhere in the Contract Documents. This warranty shall be in effect notwithstanding any disclaimers, or limiting or conditional terms contained in such separate warranties furnished by manufacturers or suppliers.

The Contractor hereby agrees to repair or replace any and all Work, together with any other adjacent Work which may be displaced in so doing, that may prove to be not in accordance with the requirements of the Contract or that may be defective in its workmanship or material during the greater of a period of one (1) year after Acceptance of the Work by the City or the period specified in the Special Conditions, without any expense whatsoever to the City, ordinary wear and tear and unusual abuse or neglect excepted.

The Contractor further agrees, that within ten (10) Days after being notified in writing by the Department of any Work not in accordance with the requirements of the Contract Documents or of any defects in the Work, the Contractor will commence and prosecute with due diligence all Work necessary to fulfill the terms of this warranty, and to complete such Work within a reasonable period of time. In the event Contractor fails to comply, it does hereby authorize the Department to proceed to have such Work done at the Contractor's expense and the Contractor will honor and pay the cost and charges therefore upon demand. The Department shall be entitled to all costs and expenses, including reasonable attorneys' fees, necessarily incurred upon the Contractor's refusal to honor and pay the above costs and charges.

All warranties set forth in the Contract Documents shall be deemed cumulative and not alternative or exclusive. Nothing contained in this section shall be construed to establish a period of limitation with respect to any other obligation, which Contractor has under the Contract Documents or under any separate warranty or guaranty required thereby. The establishment of a

specific warranty period relates only to the specific obligation of Contractor to correct defective Work, and it has no relationship to the time within which its obligation to comply with the Contract Documents or applicable provision of law may be sought to be enforced, nor to the time within which proceedings may be commenced to establish Contractor's liability with respect to its obligations other than specifically to correct the Work. Without limiting the foregoing, it is understood and agreed that Contractor shall remain responsible for latent defects with its work, regardless of the expiration of any warranty period set forth in the Contract Documents.

7-1.13 **WARRANTY OF TITLE.** No material, supplies, or equipment for the Work under this Contract shall be purchased subject to any chattel mortgage, security agreement, or under a conditional sale or other agreement by which an interest therein or any part thereof is retained by the seller or supplier. The Contractor warrants good title to all material, supplies, and equipment Installed or incorporated in the Work and agrees upon completion of all Work to deliver the Premises, together with all improvements and appurtenances constructed or placed thereon by it, to the City free from any claim, liens, security interest, or charges, and further agrees that neither the Contractor nor any person, firm, or corporation furnishing any materials or labor for any Work covered by this Contract shall have any right to a lien upon the Premises or any improvement or appurtenances thereon. Provided, that this shall not preclude the Contractor from Installing metering devices and other equipment of utility companies, the title of which is commonly retained by the utility company. In the event of the Installation of any such metering device or equipment, the Contractor shall advise the City as to the legal owner thereof. Nothing contained in this paragraph, however, shall defeat or impair the right of such persons furnishing materials or labor under any bond given by the Contractor for their protection or any rights under any law permitting such persons to look to funds due the Contractor in the hands of the City.

The provisions of this paragraph shall be inserted in all subcontracts and material Contracts, and notice of its provisions shall be given to all persons furnishing materials for the Work when no formal Contract is entered into for such materials.

[END OF GENERAL CONDITIONS]

TEXT OF AB 626

Assembly Bill No. 626

CHAPTER 810

An act to add and repeal Section 9204 of the Public Contract Code, relating to public contracts.

[Approved by Governor September 29, 2016. Filed with Secretary of State September 29, 2016.]

LEGISLATIVE COUNSEL'S DIGEST

AB 626, Chiu. Public contracts: claim resolution.

Existing law prescribes various requirements regarding the formation, content, and enforcement of state and local public contracts. Existing law applicable to state public contracts generally requires that the resolution of claims related to those contracts be subject to arbitration. Existing law applicable to local agency contracts prescribes a process for the resolution of claims related to those contracts of \$375,000 or less.

This bill would establish, for contracts entered into on or after January 1, 2017, a claim resolution process applicable to any claim by a contractor in connection with a public works project. The bill would define a claim as a separate demand by the contractor for one or more of the following: a time extension for relief from damages or penalties for delay, payment of money or damages arising from work done pursuant to the contract for a public work, or payment of an amount disputed by the public entity, as specified.

This bill would require a public entity, defined to exclude certain state entities, upon receipt of a claim sent by registered or certified mail, to review it and, within 45 days, provide a written statement identifying the disputed and undisputed portions of the claim. The bill would authorize the 45-day period to be extended by mutual agreement. The bill would require any payment due on an undisputed portion of the claim to be processed within 60 days, as specified. The bill would require that the claim be deemed rejected in its entirety if the public entity fails to issue the written statement.

This bill would authorize, if the claimant disputes the public entity's written response or if the public entity fails to respond to a claim within the time prescribed, the claimant to demand to meet and confer for settlement of the issues in dispute. The bill would require any disputed portion of the claim that remains in dispute after the meet and confer conference to be subject to nonbinding mediation, as specified. The bill would provide that unpaid claim amounts accrue interest at 7% per annum. The bill would prescribe a procedure by which a subcontractor or lower tier contractor may make a claim through the contractor.

This bill would require the text of these provisions, or a summary, to be set forth in the plans or specifications for any public work which may give rise to a claim. The bill would specify that a waiver of these rights is void and contrary to public policy, except as specified. The bill would also specify that it does not impose liability on a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

By increasing the duties of local agencies and officials, this bill would impose a state-mandated local program.

This bill would, on January 1, 2020, repeal the provision establishing the claim resolution process.

This bill would specify that these provisions constitute a matter of statewide concern.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that, if the Commission on State Mandates determines that the bill contains costs mandated by the state, reimbursement for those costs shall be made pursuant to these statutory provisions.

The people of the State of California do enact as follows:

SECTION 1. Section 9204 is added to the Public Contract Code, to read:

9204. (a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

(c) For purposes of this section:

(1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.

(2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.

(3) (A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) "Public entity" shall not include the following:

(i) The Department of Water Resources as to any project under the jurisdiction of that department.

(ii) The Department of Transportation as to any project under the jurisdiction of that department.

(iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.

(iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.

(v) The Military Department as to any project under the jurisdiction of that department.

(vi) The Department of General Services as to all other projects.

(vii) The High-Speed Rail Authority.

(4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d) (1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2) (A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each

party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

(C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

(D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

(E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

(3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

(4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

(5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

(e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.

(f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.

(g) This section applies to contracts entered into on or after January 1, 2017.

(h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

(i) This section shall remain in effect only until January 1, 2020, and as of that date is

repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

SECTION 2.

The Legislature finds and declares that it is of statewide concern to require a charter city, charter county, or charter city and county to follow a prescribed claims resolution process to ensure there are uniform and equitable procurement practices.

SECTION 3.

If the Commission on State Mandates determines that this act contains costs mandated by the state, reimbursement to local agencies and school districts for those costs shall be made pursuant to Part 7 (commencing with Section 17500) of Division 4 of Title 2 of the Government Code.

SUPPLEMENTAL CONDITIONS

Project: AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT

Scope of Supplemental Conditions

1. The Work shall be performed in accordance with the General Conditions and Department Standards, except as the General Conditions may be modified by the following additional City Standards, incorporated herein by this reference, if so indicated.

	COMMUNITY DESIGN GUIDELINES 311 Vernon Street, Roseville, CA 95678
	SPECIFICATIONS FOR COMMERCIAL CONSTRUCTION (ELECTRIC) 2090 Hilltop Circle, Roseville, CA 95747
	PARKS CONSTRUCTION STANDARDS 316 Vernon Street, Suite 400, Roseville, CA 95678
X	DESIGN AND CONSTRUCTION STANDARDS 311 Vernon Street, Roseville, CA 95678
	OTHER

Above documents are available at: www.roseville.ca.us.

2. Numbering in these Supplemental Conditions conforms to that in the General Conditions. The existence of a section in these Supplemental Conditions means that the corresponding section in the General Conditions is modified in some respect. Unless otherwise specified, the modified General Condition is deleted entirely and the provisions of these Supplemental Conditions are substituted.

SECTION 1. DEFINITIONS AND TERMS

1-1.24 **DEPARTMENT.** Section 1-1.24 of the General Conditions is amended to include the following:

The Department for Contract Administration is the Environmental Utilities Department of the City of Roseville.

1-1.28 **Engineer or Architect:** Section 1-1.28 of the General Condition is amended to the following:

Engineer. The Environmental Utilities Director or the duly authorized representative.

SECTION 2. CONTROL AND SCOPE OF THE WORK

2-1.08 **SUBMITTALS.** Section 2-1.08 of the General Conditions is amended to include the following two sentences:

The Contractor shall submit all material submittals within the timelines included in the Specifications.

The time allowed for review of each submittal is 14 Days after receipt of the submittal by the Director.

SECTION 3. CHANGES IN THE WORK

There are no amendments to the General Conditions.

SECTION 4. CONTROL OF MATERIALS

There are no amendments to the General Conditions.

SECTION 5. LEGAL RELATIONS AND RESPONSIBILITY

5-1.14 **AIR POLLUTION CONTROL AND ASBESTOS.** Section 5-1.14 of

the General Conditions is amended to include the following:

To the best of the City's knowledge, asbestos is not present in the vicinity of the project.

SECTION 6. PROSECUTION AND PROGRESS

6-1.04 **PROGRESS SCHEDULE:** Section 6-1.04A of the General

Conditions is modified to delete the first sentence and replace with the following:

The Contractor shall submit to the Director, within ten (10) calendar days after date of the Notice to Proceed, a Preliminary Progress Schedule covering the Contractor's activities over the first thirty (30) calendar days of operation in detail and the remainder of the project in summary.

6-1.04 **PROGRESS SCHEDULE.** Section 6-1.04F of the General Conditions is amended to include the following:

Progress schedules showing project completion dates more than 30 Days earlier than specified in Section 6-1.07 shall be rejected.

6-1.07 **TIME OF COMPLETION.** Section 6-1.07 of the General Conditions is amended to include the following:

The Contractor shall begin Work within 21 days after receiving a Notice to Proceed and shall diligently prosecute the Work to completion. The Work shall be completed within the Time of Completion required by the Agreement.

If landscaping plants require an establishment period, that period will be 60 Days and the start of the establishment should be per supplier planting instructions.

6-1.08 **LIQUIDATED DAMAGES.** Section 6-1.08 of the General Conditions is amended to include the following:

The amount of Liquidated Damages is included in the Agreement.

SECTION 7: ACCEPTANCE AND PAYMENT

Section 7-1.02 of the General Conditions is amended to include the following:

Unless special payment is specifically provided in the Measurement and Payment Section, all incidental work and expense in connection with the Completion of Work Under the Contract will be considered a subsidiary obligation of the Contractor and all such costs shall be included in the appropriate items in the Schedule of Bid Items in connection with which costs are incurred.

[END OF SUPPLEMENTAL CONDITIONS]

SECTION 01025

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCOPE

- A. All estimated quantities stipulated in the Bid Form or other Contract Documents are approximate and are to be used only (a) as a basis for estimating the probable cost of the Work and (b) for the purpose of comparing the bids submitted for the Work. The actual amounts of work completed and materials furnished under unit price items may differ from the estimated quantities. The basis of payment for work and materials will be the actual amount of work completed and materials furnished. Contractor agrees to make no claim for damages, anticipated profits, or otherwise on account of any difference between the amounts of work actually completed and materials actually furnished and the estimated amounts therefore as long as the difference is within 25% (+ or -) of the stated quantities on the Bid Form.
- B. Payment for the Unit Price Work items of the Schedule of Work Items, as further specified herein, shall include all compensation to be received by the **Contractor** for furnishing all tools, equipment, supplies, and manufactured articles and for all labor, operations, and incidentals appurtenant to the items of work being described that are necessary to complete the various items of the work in accordance with the requirements of the Contract Documents, including all appurtenances thereto and including all costs of compliance with the regulation of public agencies having jurisdiction, including Safety and Health Requirements of the California Division of Industrial Safety and the Occupational Safety and Health Administration (OSHA) of the U.S. Department of Labor. No separate payment will be made for any item that is not specifically set forth in the Schedule of Work Items. All costs therefore shall be included in the prices named in the Schedule of Work Items for the various appurtenant items of work.

1.02 UNITS OF MEASUREMENT

- A. Measurements shall be in accordance with United States Standard Measures.

1.03 UNIT PRICE ITEMS

- A. Materials and items of work which are to be paid for on the basis of measurement will be measured in accordance with the method stipulated in the particular sections involved. In determining quantities, all measurements shall be made in a horizontal plane unless otherwise specified. Measurement of the completed work shall be in accordance with, and by instruments and devices calibrated to United States Standard Measures, and the units of measurement for payment, and the limit thereof, shall be made as shown on the Plans, Specifications, General Conditions, and Supplementary Conditions and the Referenced City of Roseville Standards and Specifications.

1.04 LUMP SUM ITEMS

- A. The quantities of work performed under lump sum bid items will not be measured except to evaluate percent complete for each lump sum bid item as determined by the City to be necessary for the purpose of determining reasonable progress payments. Such measurements, as is determined to be necessary, shall be performed by the **Contractor** and verified by the **City**, in accordance with Paragraph 1.03 of this Section, UNIT PRICED ITEMS.

PART 2 DESCRIPTION OF BID ITEMS

2.01 GENERAL

- A. The Bid Amounts for each Bid Item will be used for comparative bid analysis. The Bid Amounts will also form the basis of progress payments. Each Lump Sum Bid Amount will undergo further breakdown as described later in this section. Bid Items are not intended to be exclusive descriptions of work categories and the **Contractor** shall determine and include in its pricing all materials, labor, and equipment necessary to complete each Bid Item (work phase) as shown and specified.

2.02 BID ITEMS

A. GENERAL (ITEMS 1-3, 21)

1. [Bid Item No. 1] Mobilization and Demobilization– (Lump Sum) Shall include but not be limited to, **Contractor's** participation in the assessment of pre-construction conditions and post construction damage assessment of the entire job site including project work described in the bid schedule to include pre-construction photographs; permits; project signs; move in of equipment, tools, supplies, materials, and manpower to the job site; providing and furnishing **Contractor's** field office (if needed), power, telephone, water and sanitary facilities; erecting, maintaining, removing and transporting of the construction project information signs, flow barriers and fencing around storage and staging areas; dust control; daily clean-up of job site; and final cleanup of job site after the project is completed and accepted by the **City**. The Lump Sum amount bid shall be divided 65 percent for mobilization and 35 percent for demobilization and shall be paid after the **City** has conducted inspections and approved all repairs and clean up and upon the **City's** review and acceptance of the As-Built Plans.
2. [Bid Item No. 2] Site to Site Mobilization– (Lump Sum) Including, but not limited to, traffic and pedestrian safety within the project limits for all project work identified in Contract Drawings including, traffic control plans (submitted to Public Works for review and approval); installation, maintenance and removal of temporary traffic control facilities including, but not limited to: cones, K-rails, fencing, barricades, trench plating, temporary backfilling and paving, striping, signals, signs, flagmen, high level warning devices, flashing arrow signs and other temporary traffic control and public safety complete in place, as is required for the execution and completion of this Work for the entire project as shown in the Specifications for Well Destruction and Well Site Facilities Demolition and Improvements. The Lump Sum amount will be paid proportionally to the work done within each payment cycle.
3. [Bid Item No. 3] Sound Attenuation Walls – (**NOT USED**).
4. [Bid item No. 21] Standby – (Hourly) Shall include any standby time incurred when the **Contractor** is instructed to stop work by either the **City** or the **Consultant**, through no fault of the work of the **Contractor**, to await further direction on the project. The **Contractor** shall be paid at an hourly rate for all working hours in which they are in standby mode.

B. WELL DRILLING (ITEMS 4-8)

1. [Bid Item No. 4] 8-inch Diameter Pilot Hole Drilling – (Unit Price per Linear Foot) Including, but not limited to, furnishing all the equipment, labor, and materials for drilling of the pilot hole to the depth specified in the Table 1, or as specified by the **Consultant**, and at locations shown in Figures 1-9. Samples of the drilling cuttings to be provided every 10 feet or at intervals specified by the **Consultant**. Equipment includes drilling pipe and mud rotary drilling unit as well as mud tanks. The **Contractor** shall be paid per linear foot drilled.
2. [Bid Item No. 5] Geophysical (E-Logs) – (Lump Sum) Including, but not limited to, all the equipment, labor, and materials required to perform geophysical logging of the entire depth of the well. The **Contractor** shall supply the **City** and **Consultant** with copies of the geophysical log following completion of each geophysical survey. The lump sum amount will be paid upon completion of each well site geophysical log.
3. [Bid Item No. 6] 14-inch Diameter Reaming – (Unit Price per Linear Foot) Including, but not limited to, furnishing all the equipment, labor, and materials for the reaming of the pilot hold to 14 inches to the depths specified in Table 1, or as specified by the **Consultant**. The **Contractor** shall be paid per linear foot of borehole reamed to 14 inches.
4. [Bid Item No. 7] 12-inch Diameter Reaming – (Unit Price per Linear Foot) Including, but not limited to, furnishing all the equipment, labor, and materials for the reaming of the pilot hold to 12 inches to the depths specified in Table 1, or as specified by the **Consultant**. The **Contractor** shall be paid per linear foot of borehole reamed to 12 inches.
5. [Bid Item No. 8] 8-inch Diameter Reaming/Hole Cleanout – (Unit Price per Linear Foot) Including, but not limited to, furnishing all the equipment, labor, and materials for the reaming of the pilot hold to 8 inches and cleaning the reamed pilot hole to the depths specified in Table 1, or as specified by the **Consultant**. The **Contractor** shall be paid per linear foot of borehole reamed to 8 inches and material excavated from the finished hole.

C. WELL CONSTRUCTION (ITEMS 9-13, 18)

1. [Bid Item No. 9] 2.5-inch Diameter Schedule 80 PVC Well Casing – (Unit Price per Linear Foot) Including, but not limited to, furnishing all equipment, labor and materials to install 2.5-inch diameter Sch. 80 PVC well casing to the depths specified in Table 1 or as specified by the **Consultant**. The **Contractor** shall be paid per linear foot of casing installed.
2. [Bid Item No. 10] 2.5-inch Diameter Schedule 80 PVC Well Screen, 0.032 Slot – (Unit Price per Linear Foot) Including, but not limited to, furnishing all equipment, labor and materials to install 2.5-inch diameter Sch. 80 PVC well screen of 0.032 slot to the depths specified in Table 1 or as specified by the **Consultant**. The **Contractor** shall be paid per linear foot of screen installed.
3. [Bid Item No. 11] Borehole Seals – (Unit Price per Linear Foot) Including, but not limited to, furnishing all equipment, labor, and materials to install borehole seals at the depth and thickness identified in Figures 10 through 17, or as specified by the **Consultant**. Borehole seals shall be bentonite seals above the screen intervals and bentonite slurry everywhere else gravel envelope isn't present. The **Contractor** shall be paid per linear foot of seal installed.

4. [Bid Item No. 12] Gravel Envelope – (Unit Price per Linear Foot) Including, but not limited to, furnishing all equipment, labor, and materials to install gravel envelope around the screened interval of the well. For each screen interval, approximately 50 feet of gravel envelope will be installed. All gravel will be washed and placed with clean water to ensure little to no fines are installed with the gravel envelope that can be entrained in the formation during development. The **Contractor** shall be paid per linear foot of gravel installed.
5. [Bid Item No. 13] Sanitary Seal – (Unit Price per Linear Foot) Including, but not limited to, furnishing all equipment, labor, and materials to install sanitary seals from the ground surface to 20 feet below ground surface at each well site. Sanitary seals shall be sand-cement grout. The **Contractor** shall be paid for linear foot of sanitary seal installed at each site.
6. [Bid Item No. 18] Furnish and Install Enclosures, Pads, and Bollards – (Lump Sum) Including, but not limited to, furnishing all equipment, labor, materials, and vehicle transport to install well enclosures, bollards, and concrete pads at each well site. Concrete pads shall be 10” thick 4’x4’ pad with potential for a future electrical conduit running to the well enclosure. The well enclosure shall be a 16” diameter steel enclosure with a locking cap. metal with the ability. Bollards shall be constructed of 4-inch diameter by 6-foot long low-carbon steel Schedule 40 pipe and grout. The bollards shall be painted bright yellow similar to other City installations. The lump sum amount shall be paid upon completion of each well site.

D. WELL DEVELOPMENT (ITEMS 14-17, 19, 20)

1. [Bid Item No. 14] Well Development: Bailing and Surging/Air Lifting – (Hourly) Including, but not limited to, furnishing all equipment, labor, and materials to properly develop the monitoring wells. Development shall include swabbing of the screen intervals for a minimum of 4 minutes per foot of well screen or until drilling fluids are removed from the well and sediments are minimal. The **Contractor** shall be paid hourly for time required for initial development of the well.
2. [Bid Item No. 15] Furnish and Install Test Pumps – (Lump Sum) Including, but not limited to, vehicle transportation, equipment, and labor to install a test pump at all well sites. The pump shall be a 2-inch diameter submersible pump capable of pumping at 10 gpm against 140 feet of head. The lump sum amount shall be paid upon completion of well development at each well site.
3. [Bid Item No. 16] Pump Development – (Hourly) Including but not limited to, furnishing all equipment, labor, and materials to completed final pump development of each monitoring well. Pump development shall occur for no less than 1 hour and until turbidity is less than 5 NTUs, or as directed by the **Consultant**. The **Contractor** shall be paid hourly for the time required to complete pump development for each well.
4. [Bid Item No. 17] Borehole Destruction – (Unit Price per Linear Foot) Including but not limited to, furnishing all equipment, labor, and materials to abandon any boreholes or wells requested by the **Consultant**. Wells shall be abandoned by filling the borehole completely with concrete. The **Contractor** shall be paid per linear foot of borehole destroyed and for mobilization and demobilization to the site. If a well or borehole is to be abandoned due to actions of the **Contractor**, no payment shall be made.

5. [Bid Item No. 19] Thin-down water, Development Water, and Mud Disposal – (Lump Sum) Including, but not limited to, furnishing all equipment labor, material, and vehicles to transport thin down water, development water, and mud to the City’s wastewater treatment facility. The lump sum amount shall be paid following completion of the monitoring wells and proper disposal of all mud along with thin-down and development water.
6. [Bid Item No. 20] Drill Cuttings Disposal – (Lump Sum) Including, but not limited to, furnishing all equipment, labor, materials and transportation to stockpile and remove drill cuttings from site. The lump sum amount shall be paid following completion of the monitoring wells and proper disposal of all cuttings.

END OF SECTION

SECTION 01110

SUMMARY OF WORK

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. The work to be performed under this Contract shall consist of furnishing all tools, equipment, materials, supplies, and manufactured articles, and for furnishing all transportation and services, including fuel, power, water, and essential communications, and for the performance of all labor, work, or other operations required for the fulfillment of the Contract in strict accordance with the Contract Documents. The work shall be complete, and all work, materials, and services not expressly shown or called for in the Contract Documents which may be necessary for the complete and proper construction of the work in good faith shall be performed, furnished, and installed by the **Contractor** as though originally so specified or shown, at no increase in cost to the **City**. Well site locations are shown in the Figures Sections as Figures 1 through 9. Well details are presented in Table 1 and illustrated in Figures 10 through 17.
2. Work covered by Contract Documents
 - a. The work required for the construction of the monitoring wells will include but not be limited to the following items:
 - 1) Obtain appropriate permits for the installation of described monitoring wells
 - 2) Move on, provide temporary facilities, and move off a minimum of six (6) and up to eight (8) sites at different locations. The **Contractor** shall mobilize at the first well site within 30 calendar days after receipt by the **Contractor** of the Notice to Proceed from the **City**.
 - 3) Drill up to eight (8) 8-inch diameter pilot holes, to the depths listed in Table 1, and shown on Figures 10 through 17, using the mud rotary drilling method. Table 1 is provided in the Figures Section. Collect drill cuttings at 10-foot intervals or changes in sediment type.
 - 4) Conduct geophysical (electric logs) of the eight (8) pilot holes.
 - 5) Ream the 8-inch diameter pilot holes to the diameters shown in Table 1. Clean-out the 8-inch diameter boreholes to the depths as listed in Table 1 or to depths as specified by the **Consultant** based on the geophysical logging.
 - 6) Construct twenty-four (24), 2.5-inch-diameter monitoring wells in the eight (8) boreholes to depths as listed in Table 1 and shown in Figures 10 through 17.
 - 7) Develop the monitoring wells by swabbing and airlifting and clean out the monitoring well to their total depths using a bailer or airlift.
 - 8) Provide temporary pumps to pump the wells until water is clear to allow water quality sampling by the **Consultant**.
 - 9) Furnish and install eight (8) concrete pads, enclosures, and bollards.

1.02 PROJECT CONDITIONS

A. General Conditions

1. The monitoring well locations shown in Figures 1 through 9 are generally flat, publically accessible, with some native grasses. Few locations have nearby trees, a generally small work area, and have a slight grade as well as greater vehicle traffic. If impact to surrounding trees is required, the **Contractor** shall work with the **City** to determine proper mitigation measures. No overhead powerlines are present at any of the sites. One site is within 50 feet of an underground gas line and will required notification to PG&E prior to beginning work. Locations may be near flowing creeks, residential neighborhoods, or business parks.
2. Drilling materials are expected to include sand, silt, clay, and gravel. Geologic formations expected to be encountered include the Riverbank, Laguna, Mehrten, and Ione Formations. Hard drilling through consolidated and cemented sandstone, conglomerate, and lahars may be encountered within the Mehrten for between 50- and 100-foot intervals, based on information from *Well Installation Completion Report Western Placer County AB303 Grant and City of Roseville ASR Well Installation Project* (MWH 2011).

B. Activities by Others

1. The **Contractor** shall cooperate fully with all utility forces, regulating agencies, the ingress/egress landowner, and personnel of the **City** and the **Consultant**.

C. Noise Abatement

1. The work shall be carried out as quietly as possible to prevent possible annoyance to nearby residents. Unnecessary noise shall always be avoided. The **Contractor** shall comply with the requirements of any and all local ordinances and the instructions of the **Consultant**.

D. Contractor Use of the Project Site

1. The **Contractor's** use of the project site shall be limited to the construction operations, including on-site storage of materials, sanitary facilities, and field equipment.
2. The **Contractor** shall be responsible for site protection of equipment and drill sites.
3. **City** ordinances allow for construction activities to occur between 7:00 AM to 5:00 PM, Monday through Saturday. No work shall be allowed on Sundays or national holidays.

1.03 QUALITY ASSURANCE

A. Pre-Construction Conference

1. The **Contractor** shall contact the **Consultant** to arrange for conference date and time. Conference shall occur no later than five (5) days after **Contractor's** receipt of the Notice of Award.
2. Prior to the commencement of work at the site, a pre-construction conference will be held at a mutually agreed time and place which shall be attended by the **Contractor**, the **Contractor's** superintendent, and all subcontractors as appropriate. Other attendees will

include: **Consultant**; **City**; governmental representatives as appropriate; others as requested by the **Contractor**; **City**, or **Consultant**.

3. The **Consultant** will preside at the pre-construction conference and will arrange for keeping the minutes and distributing the minutes to all persons in attendance.
4. Purpose of conference
 - a. The purpose of this pre-construction conference is to designate responsible personnel and establish a working relationship. Matters requiring coordination will be discussed and procedures for handling such matters established. The complete agenda will be furnished to the **Contractor** prior to the meeting date, which may include the following:
 - 1) **Contractor's** projected schedule.
 - 2) Water for construction.
 - 3) Transmittal, review, and distribution of the **Contractor's** submittals.
 - 4) Processing applications for payment.
 - 5) Maintaining record documents.
 - 6) Critical work sequencing.
 - 7) Field decisions and Change Orders.
 - 8) Use of project site, storage areas, security, housekeeping, and **Consultant's** needs.
 - 9) Major equipment deliveries and priorities.
 - 10) The **Contractor's** assignments for safety and first aid.
 - 11) Labor compliance requirements and issues.

PART 2 MATERIALS

(Not Used.)

PART 3 EXECUTION

(Not Used.)

END OF SECTION

SECTION 01501

TEMPORARY FACILITIES

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Temporary facilities, utilities including but not limited to water, electrical power, drainage, sanitary facilities, lighting, and security.

B. Measurement and Payment

1. No price is fixed for TEMPORARY FACILITIES in the proposal. The **Contractor** is to do the work or furnish materials and equipment to complete all the work as may be needed to provide temporary facilities.
2. The cost of providing such temporary facilities as needed to complete the work or furnishing materials or equipment not otherwise specified in the Special Provisions or Technical Specifications shall be included in the LUMP SUM price bid for the BID ITEM MOBILIZATION and no additional compensation shall be paid.

1.02 WATER

- A. The **Contractor** shall arrange for construction water at the site one week, five (5) working days, prior to the pre-construction meeting.
- B. Water shall be obtained from municipal fire hydrants for use by the **Contractor**. The **Contractor** shall obtain an approved back flow prevention device from the **City** for use in connecting to the hydrant. A refundable deposit is required.
- C. All water necessary for drilling and construction of the monitoring wells shall be conveyed or transported to the drilling sites by the **Contractor**.
- D. Water used for well drilling shall be kept free from contamination and shall conform to the requirements of the state and local authorities for potable water and water well drilling.

1.03 ELECTRICAL POWER

- A. The **Contractor** shall provide, at his own expense, all electric power required for construction, testing, general and security lighting, and all other purposes whether supplied through temporary or permanent facilities. The **Contractor** may arrange with the local utility to provide adequate temporary electrical service at a mutually agreeable location or provide his own generating equipment provided it meets the conditions of the County Noise Ordinance.
- B. When power cords are used at the site, the **Contractor** shall provide adequate job site electrical distribution facilities conforming to applicable codes and safety regulations.

1.04 DRAINAGE

- A. **Contractor** shall prevent any drilling, equipment, and/or other fluids from entering the on-site drainage facilities, nearby creeks, or drainage tributaries.

1.05 SANITARY FACILITIES

- A. The **Contractor** shall provide and maintain suitable chemical toilets or water closets (cleaned a minimum of twice a week) at the monitoring well locations. Upon completion of the contract work, the **Contractor** shall remove such toilets and disinfect the premises in the event of a spill or leakage.

1.06 LIGHTING

- A. The **Contractor** shall provide temporary lighting in all work areas sufficient to maintain a lighting level during working hours not less than the lighting level required by California OSHA standards. When used, lighting shall be shielded so that adjacent property owners are not adversely impacted.

1.07 NUISANCE WATER

- A. It is anticipated that nuisance water, such as drilling water, rainfall, groundwater or surface runoff may be encountered within the construction site during the period of construction under this contract. The **Contractor** shall at all times protect the work from damage by such waters and shall take all due measures to prevent delays in progress of work caused by such waters. The **Contractor** shall dispose of nuisance water without adverse effects upon the **City's** property or any other property.

1.08 WATER DISPOSAL

- A. The **Contractor** should expect to transport and dispose of drilling muds, thin down water, and initial development water off-site.
- B. Water purged from monitoring wells during pump development must not flow off-site or into the stormwater system. Purged water can be applied to the adjacent land and allowed to percolate on-site following approval from the **City** prior to pump development.

1.09 FENCES

- A. Fences, Barricades, Warning Signs, and Lights.
 - 1. When used, shall conform to CAL-OSHA regulations, other State of California and local codes, rules, regulations, and ordinances for protection of workers, public and private property, and provide, install and maintain barricades, warning devices and other protection required therefor.
 - 2. **Contractor** shall provide temporary barriers as needed to protect materials, equipment, and miscellaneous items from theft, vandalism, unauthorized access and/or harm.

PART 2 PRODUCTS

(Not used.)

PART 3 EXECUTION

(Not used.)

END OF SECTION

SECTION 01505

MOBILIZATION

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:

1. Mobilization shall include the obtaining of all permits; the transportation of personnel, equipment; materials, temporary facilities, site cleanup, and/or operating supplies to the site and from (Demobilization) the site, all as required for the proper performance and completion of the work.
2. Mobilization shall include but not be limited to the following principal items:
 - a. Moving onto and off the site all **Contractor's** equipment, materials, supplies required for work to commence, continue, and finish within the contracted time.
 - b. Installing, operating, maintaining, and removing temporary facilities including but not limited to storage tanks and drainage for well development and testing, construction water, electrical power, communications (telephone), security (fencing and other as required), traffic control, portable sanitary facilities, and lighting.
 - c. Obtaining all required permits and posting all OSHA required notices and establishment of safety programs.
 - d. Submittal and updating of the Projected Construction Schedule as directed by the **City or Consultant**.
 - e. Site cleanup.

B. Related Sections

1. Section 01501 - Temporary Facilities
2. Section 02523 – 440 - Site Cleanup

C. Measurement and Payment

1. Measurement

- a. The unit for this work is Lump Sum for all work associated with mobilization and demobilization.

2. Payment

- a. Unit prices for mobilization shall be as set forth in the BID SCHEDULE for items:
 - 1) Item No. 1 Mobilization/Demobilization
 - 2) Item No. 2 Site to Site Mobilization
- b. Progress payments and final payment may be made for this Item.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

3.01 WELL PERMITS

- A. Well permits for all well sites shall be obtained from the City of Roseville Environmental Utilities Engineering Division (916-774-5669). Permits from the City will be provided at no cost to the Contractor.

END OF SECTION

SECTION 02523-141

PILOT BOREHOLE DRILLING

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:

1. This section includes the products, materials, and procedures associated with the drilling of a pilot boreholes with subsequent reaming operations of the pilot boreholes to reach the final diameter and collecting formation samples for up to eight (8) boreholes to approximate depths below ground surface as indicated in Table 1 and Figures 10 through 17.
2. The method of drilling shall be by mud rotary drilling in which the uncased wall of the drill hole is held in place at all times with a circulating drilling fluid.

B. Related sections:

1. Section 02523-160: Drilling Fluid
2. Section 02523-180: Geophysical Surveys
3. Section 02523-241 Borehole Reaming

C. Measurement and Payment

1. Measurement

- a. The unit for this work is Linear (vertical) Feet of final borehole drilled. The value for payment shall be as measured to the nearest foot. Measurement shall be as taken from the bottom of the borehole as specified and as verified by the geophysical surveys.

2. Payment

- a. Unit prices for mobilization shall be as set forth in the BID SCHEDULE for items:

- 1) Item No. 3, 8-inch Diameter Pilot Borehole Drilling.

1.02 SUBMITTALS

- A. The **Contractor** shall submit a drilling equipment schedule listing proposed equipment with sizes and rated capacities to the **Consultant** upon award of the Contract.
- B. The **Contractor** shall submit Safety Data Sheets (SDS) for all drilling fluid additives upon award of the Contract.

PART 2 PRODUCTS

2.01 MATERIALS

A. Drilling Fluid

1. The **Contractor** shall maintain controlled drilling fluid material characteristics per Section 02523-160: Drilling Fluid.
2. The **Contractor** will record these measurements on the daily drilling report.

2.02 EQUIPMENT

A. Drill Rig:

1. The **Contractor** shall provide a complete mud rotary drilling unit of sufficient size and capacity to conduct the drilling operations required in these Specifications.
2. The drilling unit(s) and associated equipment shall be in good condition and of sufficient capacity to lower the specified casing assemblies to the specified depths without the use of flotation devices or “float plugs.”
3. The drilling pipe shall be of adequate size to conduct drilling, shall be in good condition, and shall be connected by standard tool or flanged-type joints. Each pipe shall be measured and recorded in a tally book available for review at all times by the **City**. Mast capacity should be at least 150% of the casing load anticipated and the rig capacity shall not be limited by insufficient power train components (engine and clutch).
4. The **Contractor** shall provide tools, accessories, power, lighting, water, other equipment, and experienced personnel necessary to conduct efficient drilling operations at the project site at all times.

B. Mud Tanks

1. Above ground mud tank(s) shall be of a volume and shape to allow proper settlement and removal of cuttings from the drilling operations and return a drilling fluid suitable for mud rotary drilling. If required, the above ground tanks shall be cleaned to maintain proper drilling fluid characteristics.

PART 3 EXECUTION

3.01 PREPARATION

A. Equipment Disinfection

1. All equipment used down hole or that comes into contact with materials or equipment down hole shall be thoroughly cleaned and disinfected prior to use.

3.02 CONSTRUCTION

A. Pilot Borehole

1. An 8-inch diameter pilot hole shall be drilled to the total depth for the boring as indicated in Table 1. The pilot borehole may be reamed as specified in Borehole Reaming section 02523-241. Cuttings shall be collected at 10-foot intervals and at changes in sediment type.

B. Sequences of Operations

1. Borehole Drilling

- a. The pilot borehole shall be drilled with diligence and without undue delay in a continuous operation to depths below ground surface as listed in Table 1, or other depth as directed by the **Consultant**.
 - 1) Drilling fluid properties must conform to those specified in Section 02523-160: Drilling Fluid.
 - 2) Formation samples shall be collected as specified in this Section.
- b. The **Consultant** will be on-site at the times necessary during the drilling operations to direct the **Contractor** as to the exact drilling depth. The exact depth will be dependent upon cuttings and lithology from the borehole.
- c. The **Contractor** shall not drill below the depth for each site as indicated in Table 1 unless directed by the **Consultant** in writing.
- d. The **Contractor** shall maintain a record indicating the time and depth when drilling fluid additives are mixed. The **Contractor** shall also record the approximate amount of water added to the drilling fluid during each shift.
- e. Upon completion of the pilot borehole a geophysical survey shall be conducted.

C. Formation Sampling

1. The **Contractor** shall collect representative formation samples during the drilling of the borehole. Samples will be collected at each formation change in addition to samples taken at 10-foot intervals.
 - a. The **Contractor** shall provide a sample collection splitter box in the discharge pipe to the mud tanks or other approved methods to obtain representative samples as approved by the **Consultant**.
 - b. The **Contractor** shall place each sample in a quart-size zip-lock freezer plastic bag. All containers will be labeled to indicate the well number and depth interval of the collected sample and stored in a manner to prevent breakage or loss. The **Contractor** will furnish containers. The **Contractor** shall prepare a "drillers log" of the formation samples indicating the types of soil encountered and the associated formation changes. The samples shall be laid out during

drilling operations in a location that is easily accessible for inspection and in an area that will not be susceptible to damage from construction activity or site traffic.

3.03 FIELD QUALITY CONTROL

A. Reports

1. A daily report with a drilling log including shift records of construction activities shall be prepared by the **Contractor** for the **Consultant**. The report shall include but shall not be limited to:
 - a. A record shall be kept showing any variation in the addition, and amount of drilling fluid or water required during the drilling operation. The depths at which such changes are required shall be shown in the daily reports.

END OF SECTION

SECTION 02523-160

DRILLING FLUID

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. This section includes the products, materials, and procedures associated with the drilling fluid used throughout the construction of the monitoring wells to facilitate the removal of formation cuttings and stabilize drilling and completion operations. This work includes all materials, labor, tools, and equipment to maintain and utilize the drilling fluid.

B. Measurement and Payment

1. Measurement

- a. No measurement shall be made for Drilling Fluid.

2. Payment

- a. No payment for Drilling Fluid will be made in this contract. Payments and final payment for any Drilling Fluid work or costs shall be included under Bid Items No. 4, 6, 7, and 8.
- b. Transport of used drilling mud and drill cuttings shall be made as set forth in the BID SCHEDULE, Bid Item No. 19 and No.20.

C. Related Sections

1. Section 01501 Temporary Facilities, Water
2. Section 02523-141 Pilot Borehole Drilling
3. Section 02523-180 Geophysical Logs
4. Section 02523-241 Borehole Reaming

1.02 REFERENCES

- A. Standard 13-A, Drilling Fluid Materials, American Petroleum Institute (API).
- B. Standard 13-B, Recommended Practice Standard Procedure for Field Testing Oil-Based Drilling Fluids, API.

1.03 SUBMITTALS

A. Drilling Fluids Program

1. The **Contractor** shall submit to the **Consultant** for approval prior to the pre-construction meeting a Drilling Fluids Program that will include but not be limited to:
 - a. A list of all additives other than potable water that are proposed or anticipated to be used to stabilize or otherwise aid in drilling

operations. Material Safety Data Sheets (SDS) shall be submitted with each proposed additive.

PART 2 PRODUCTS

2.01 MATERIALS

A. Drilling Fluid

1. Only potable water shall be used in drilling fluids. The **Contractor** shall provide potable water for drilling fluid purposes. See Section 01501 Temporary Facilities, Water.
2. Drilling additives, when approved to be used by the **City**, shall meet or surpass Standard 13-A, Drilling Fluid Materials, API and shall be NSF approved.
3. All drilling fluid additives used will comply with industry standards and practices for use in the construction of a water supply well. The additives shall be applied and used as prescribed by the manufacturer and shall be reviewed with respect to the impact they may impose on the successful development of the well.

2.02 EQUIPMENT

A. Drilling Fluid Control Equipment

1. To maintain drilling fluid density and viscosity, the **Contractor** shall employ the necessary equipment to facilitate a relatively rapid dropout or removal of cuttings without the use of a below ground mud pit. The **Contractor** shall utilize such equipment as shale shakers, desanders/desilters, and other as required to remove cuttings from the drilling fluid to maintain drilling fluid properties.
2. A Marsh Funnel shall be supplied and used for the measurement of drilling fluid.
3. Mud balance equipment to determine Weight (fluid density) shall be supplied by the **Contractor** in accordance with standard practice and API RP13B—Recommended Practice Standard Procedure for Field Testing Oil-Based Drilling Fluids and as applied to fresh water municipal well drilling.

B. Tank/Shaker Table

1. The **Contractor** shall provide mud tank/shaker table at the project site.
2. Tanks shall be of such configuration that proper settlement of solids from the drilling fluid occurs prior to exiting the tank and fluid return to the borehole.

PART 3 EXECUTION

3.01 APPLICATION

A. Drilling Fluid

1. The Contractor shall maintain controlled drilling fluid characteristics during the entire operation of well construction.
2. Should loss of circulation or other drilling problems require the addition of other additives, prior approval of the **City** and the **Consultant** is required. The **Contractor** shall take into consideration additional development procedures to ensure the complete removal of additives should they be used.
3. If proper control of the drilling fluid is not maintained to the satisfaction of the **Consultant**, the **Contractor** shall be required to retain or employ, at his own expense, an experienced qualified mud engineer on the job during all operations to design, supervise and maintain drilling fluid characteristics to the satisfaction of the **Consultant**.
4. The **Contractor** shall maintain the drilling fluid properties as follows:

Parameter	Criteria	Units
Weight (Fluid Density)	9.33 to 11.36	Pounds per gallon, lb./gal.
Viscosity, Marsh Funnel	32 to 50	Seconds per quart, sec./qt.
Sand Content	0 to 4	Percent (%) by Volume

5. The **Contractor** is cautioned to maintain the minimum viscosity of the drilling fluid that will raise cuttings and adequately condition the wall of the hole. The **Contractor** shall remove all mud cake on the wall of the borehole during the development of the well or placing of the gravel.
6. All drilling fluids shall be disposed of by the **Contractor** in accordance with the applicable ordinances and regulations of governmental agencies having jurisdiction. No additional compensation will be paid to the **Contractor** for disposal of cuttings or drilling fluids.

3.02 DRILL CUTTINGS

A. Containment

1. Mud tanks shaker tables will be allowed for the collection and settlement of drill cuttings.

B. Disposal

1. All drill cuttings and drilling mud shall be contained and disposed of by the **Contractor** off-site. Drilling cuttings shall be stockpiled and transported off-site following completion of the monitoring well. No additional compensation will be paid to the **Contractor** for disposal of cuttings or drilling fluids.

3.03 RECORDS/QUALITY CONTROL

A. Drilling Fluid Properties

1. Drilling fluid properties shall be tested, measured, and recorded once during each 60 feet of borehole or reaming drilled or 4 hours of circulation time, whichever is more frequent. The recorded results shall be included in the daily report.
2. Failure by the **Contractor** to test, measure, record, or provide such drilling fluid data to the **City** or the **Consultant** in accordance with this specification may result in delay of work at no cost to the **City**.

END OF SECTION

SECTION 02523-180

GEOPHYSICAL SURVEYS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes

1. This section includes the products, materials, and procedures/services associated with geophysical surveys proposed in the pilot borehole(s). The **Contractor** shall secure the services of a firm approved by the **Consultant** to conduct the surveys.

B. Related Sections

1. Section 02523-141 Pilot Borehole Drilling
2. Section 02523-160 Drilling Fluid

C. Measurement and Payment

1. Measurement

- a. The unit for this work/service is lump sum and includes any incidentals thereof.
- b. The **Consultant** shall be present to witness the geophysical logging of the pilot boreholes.
- c. Measurements of the service provided shall be per log completed as recorded by the **Consultant**. If more or less logging is completed as stated in this specification, measurement for payment shall be proportioned accordingly; proportion shall be as agreed upon by the **Contractor** and **City** or **City Representative**.
- d. There will be no additional payment for rig time or idle time while logging is being run. No standby time will be paid for a 24-hour period after the logs are run while the **Consultant** interprets the logs.

2. Payment

- a. Unit prices for mobilization shall be as set forth in the BID SCHEDULE for items:
 - 1) Item No. 5 Geophysical (E-Logs).
- b. Progress payments and final payment shall be made for this Item.

PART 2 PRODUCTS

2.01 QUALIFIED FIRMS

A. The following firms are approved by the **City** to conduct geophysical and other borehole surveys; no other firm shall be used. The **Contractor** shall list one of these firms in the Subcontractor's list provided as part of the Bid Package:

1. Pacific Surveys, 4456 El Circuito, Claremont, CA 91711, (909) 625-6262
2. Dewey Data Inc, 1634 W Alpine Ave, Stockton, CA 95204, (209) 942-0480

2.02 LOGGING

A. Electric Logs

1. The electric logs shall consist of a spontaneous potential, 16-inch normal, 64-inch normal, and point resistivity.
2. The anticipated horizontal scale for the printed plots of the spontaneous potential shall be 20 millivolts per inch. The anticipated horizontal scale for the plot of the 16-inch normal, 64-normal is 40 ohmmeter²/meter per inch.
3. The vertical scale for all printed plots of logs shall be 20 feet per inch. The vertical adjustment required to determine the true depth for each of the electric log curves shall be indicated on the plot.

2.03 EQUIPMENT

- A. The logging shall be run using digital logging equipment recording both real time and on analog paper during the actual logging.
- B. Digital information is to be stored on a compact disk. The information shall be stored in ASCII and DXF formats and shall record 1 data point for every foot logged in the borehole as a minimum.

2.04 REPORT FORMAT

- A. All logs and heading shall comply with the API RP-38 standards for format and log scales. All pertinent well data is to be recorded on log headings.
- B. The electric conductivity of the mud filtrate shall be measured and entered into each log.

2.05 CALIBRATION

- A. The well surveying Company is required to present proof of the last equipment calibration. This calibration must be printed on each log at the time of run. The calibration date should not be greater than 14 days prior to the date of the surveying.

PART 3 EXECUTION

3.01 PROCEDURES

A. Geophysical Logging

1. Upon completion of the borehole, digital geophysical logs shall be run by a firm specializing in Geophysical Logging retained by the **Contractor** and approved by the **Consultant**.
2. Before running geophysical logs, the **Contractor** shall cease drilling and circulate fluid for not less than 1 hour.
3. The logs will be run in the presence of the **Consultant**. The geophysical logs shall become the property of the **City** at the time the logging is completed.
4. The logging speed for all logs shall be 40 feet per minute, unless otherwise approved by the **Consultant**.
5. The **Contractor** shall be required to provide whatever assistance may be necessary to accomplish the geophysical logs; this includes reaming the borehole should logging equipment fail to reach the bottom.
6. The **Contractor** shall perform necessary measures after the geophysical logs are run to ensure the stability and preservation of the pilot bore.
7. The **Contractor** shall provide, immediately upon completion, 3 field copies of each log and one electronic file of each log to the **Consultant** for interpretation.
8. If logging information indicates that further development is not warranted, the **Consultant** reserves the right to terminate further work on the pilot hole.

END OF SECTION

SECTION 02523-241

BOREHOLE REAMING

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:

1. Reaming of the pilot borehole to the final borehole diameter or any other reaming required in completion of the work as specified. Reaming shall be conducted to complete the borehole to the sizes and depths specified in Table 1 and Figure 10 through 17.

B. Related Sections:

1. Section 02523-141: Pilot Borehole Drilling
2. Section 02523-160: Drilling Fluid

C. Measurement and Payment

1. Measurement

- a. The unit for this work is Linear (vertical) Feet of borehole reamed. The value for payment shall be as measured to the nearest foot.

2. Payment

- a. Unit prices for mobilization shall be as set forth in the BID SCHEDULE for items:
 - 1) Item No. 6, 14-inch Diameter Reaming
 - 2) Item No. 7, 12-inch Diameter Reaming
 - 3) Item No. 8, 8-inch Diameter Reaming/hole cleanout
 - 4) Item No. 19, Thin-down Water, Development Water, and Mud Disposal
 - 5) Item No. 20, Drill Cuttings Disposal

PART 2 PRODUCTS

2.01 MATERIALS

A. Drilling Fluid

1. The **Contractor** shall maintain controlled drilling fluid characteristics during the entire drilling operation as specified in Section 02523-160, Drilling Fluid.

PART 3 EXECUTION

3.01 CONSTRUCTION

A. Sequences of Operations

1. Reaming Borehole

- a. Upon completion of the Geophysical Surveys as specified in Section 02523-180, and written authorization by the **Consultant**, the **Contractor** shall proceed with reaming the pilot borehole, if necessary.
- b. The borehole shall be reamed to complete the borehole to the sizes and depths specified in Table 1, or as directed by the **Consultant**.
- c. Upon completion of reaming, the **Contractor** shall clean out the remaining portions of the 8-inch diameter borehole to the depths listed in Table 1 or to the depths specified by the **Consultant** based on the geophysical logging.
- d. A record shall be kept showing any variation in the addition, and amount of drilling fluid or water required during the drilling operation. The depths at which such changes are required shall be shown in the daily reports.

END OF SECTION

SECTION 02523-281

MONITORING WELL CASING AND SCREEN

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:

1. This work includes all materials, labor, tools, and equipment to install monitoring well casing as specified for a gravel-packed single or nested monitoring wells concentric within the drilled and accepted borehole. Table 1 lists the monitoring well depths. Figure 10 through 17 show the construction details for each well.

B. Measurement and Payment

1. Measurement

- a. The unit for this work is Linear (vertical) Feet of blank or screened well casing installed. The value for payment shall be as measured to the nearest foot.

2. Payment

- a. Unit prices for payment of blank and screened sections shall be as set forth in the BID SCHEDULE:
 - 1) Item No. 9, 2.5" Dia. SCH 80 PVC Well Casing
 - 2) Item No. 10, 2.5" Dia. SCH 80 PVC Well Screen, 0.032 slot
 - 3) Item No. 19, Thin-down Water, Development Water, and Mud Disposal
 - 4) Item No. 20, Drill Cuttings Disposal
- b. Progress payments and final payment can be made for these Items.

1.02 REFERENCES

- A. American Society of Testing and Materials (ASTM)

1.03 SUBMITTALS

- A. The **Contractor** shall provide documentation that the screen meets this specification, and proof of casing and screen manufacturer.

PART 2 PRODUCTS

2.01 MATERIALS

A. Blank Casing (PVC)

1. All PVC casing and material shall be new and unused.

2. The well casing shall be manufactured in accordance with ASTM F 780 with the following additions.
 - a. Well casing shall be coupled.
 - b. The PVC casing shall be Schedule 80.
- B. Well Screen (PVC Mill Slot)
 1. All PVC screens and material shall be new and unused.
 2. The screen shall:
 - a. Have a 0.032-inch slot size,
 - b. Shall be constructed from Schedule 80, and
 - c. Be coupled.
 3. The well screen perforations shall be mill slot by the manufacturer.

PART 3 EXECUTION

3.01 GENERAL

- A. Well casing shall be continuous and watertight from the top to the bottom of the installed casing except for well screen sections.
- B. **Contractor** shall provide caps and plugs for the top and bottom of the well casing.
- C. The tremie pipe for filling the annular space with filter pack shall be installed before placement of the well casing and screens.

3.02 SCHEDULE

- A. Within eight (8) normal working hours of completion of the geophysical survey, the **Consultant** will provide the **Contractor** with a written schedule for the final position and depths of the screen and blank sections including the type of material to be used.

3.03 JOINTS (PVC)

- A. The **Contractor** may decide the appropriate lubricating joint compound, if any. However, the pipe compound must be approved for use for drinking water. Grease or compounds containing volatile organic compounds will not be allowed.

3.04 CENTRALIZERS

- A. PVC guides shall be attached to all blank casing sections. Centralizers will be constructed of stainless steel or PVC. The centralizers will be installed at not more than 60 feet apart to centralize and hold the casings in the proper position until the gravel and sanitary seals are in place. At least one centralizer will be set above and below each screened interval. Centralizers shall not be placed onto the screen sections.

3.05 SEQUENCE INSTALLATION OF CASING, SCREEN, AND OTHER PIPES

- A. Upon completion of the drilling and/or reaming, evaluation of the geophysical survey, backfilling, and approval from the **Consultant** that the borehole is acceptable, the **Contractor** may proceed with the construction of the monitoring well.
- B. The **Contractor**, after landing the casing at its correct location, shall reduce the drilling fluid viscosity to 30 seconds per quart (sec./qt.) by Marsh funnel and density to less than 8.9 pounds per gallon (lbs/gal).
 - a. Fluid properties shall be changed by the addition of fresh water. Care should be exercised to avoid setting up a density inversion in the borehole between the drilling fluid and the fresh water.
 - b. Circulation shall be commenced using fluid from the mud tanks having the same viscosity as the conditioned fluid.
 - c. Circulation shall be maintained for at least 30 minutes following the measured change in the drilling fluid.
- C. Water generated during the thin down process shall be contained, transported, and properly disposed of off-site. No water shall be allowed to flow off property or to the stormwater system.
- D. Installation of the casing shall proceed in accordance with the contract drawings with the circulation tremie pipe remaining and circulation continuing during the installation. The installation shall be by methods that will ensure no damage to casing, screen, borehole, or other appurtenances will occur.
- E. The use of floatation plugs to land and set the well string will not be permitted.
- F. The well casing string shall be suspended in tension from the surface by means of an appropriate hanger or clamp. The bottom of the casing shall be at a sufficient distance above the bottom of the reamed hole as to ensure that none of the casing will be supported from the bottom of the hole.
- G. The **Contractor** shall gain the verification that the total weight of the well string is supported by the drill rig by having the **Consultant** observe the dial weight indicator.
- H. If, for any reason, the casing cannot be landed in the correct position or at a depth acceptable to the **Consultant**, the **Contractor** shall remove the casing and ream the borehole. In no event shall the **Contractor** attempt to drive or “spud” the well string.
- I. The well casing shall be completed to a minimum height of two (2)-feet above ground surface and plugged with an expandable plug.
- J. Upon completion of well development activities, the casing shall be sealed with a water-tight, expandable plug.

- K. If, for any reason the casing cannot be placed in the correct position, or at a depth acceptable to the **Consultant**, the **Contractor** shall construct another well immediately adjacent to the original location and complete this well in accordance with the specifications and drawings at no additional cost to the **City**. The abandoned hole shall be properly sealed at the **Contractor's** expense.
- L. If any of the casings should collapse prior to well completion, they shall be withdrawn and replaced at the **Contractor's** expense.
- M. All work required to be repeated, and all additional materials, labor, and equipment required, shall be furnished at the expense of the **Contractor** and no claim for additional compensation shall be made or be allowed therefore, except as specifically provided herein.

END OF SECTION

SECTION 02523-321

BOREHOLE SEALS AND GRAVEL ENVELOPE

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:

1. This work includes all materials, labor, tools, and equipment to install the borehole seals (bentonite and bentonite slurry) to isolate the monitoring wells and the gravel envelope (pack) to surround the well screens. Figures 10 through 17 shows typical seal and gravel envelope placement for each well.

B. Related Sections

1. Section 02523-141: Pilot Borehole Drilling
2. Section 02523-160: Drilling Fluid
3. Section 0243-241: Borehole Reaming
4. Section 02523-331: Borehole Sanitary Seals

1.02 MEASUREMENT AND PAYMENT

1. Measurement

- a. The unit for this work is Linear (vertical) Feet of borehole seals (bentonite and common fill gravel) installed.
- b. The unit for this work is Linear (vertical) Feet of gravel envelope installed and shall be based on measurement from the top of the borehole seal or annular seal and shall include payment for consolidating and maintaining the gravel envelope through development and final acceptance of the monitoring well.

2. Payment

- a. Unit prices for payment shall be as set forth in the BID SCHEDULE for items:
 - 1) Item No. 11 Borehole Seals
 - 2) Item No. 12 Gravel Envelope
 - 3) Item No. 13 Sanitary Seal

1.03 SUBMITTALS

A. Prior to gravel packing operation:

1. A description and recent (less than 1-month) certified sieve analysis of gravel envelope to be used to surround the well screens must be submitted

to the **Consultant** at least three (3) days prior to the anticipated date of shipment of gravel from the supplier.

2. The **Contractor** shall submit for approval the type of bentonite to be used for the seals.
3. The **Contractor** shall submit for approval, the type of bentonite slurry to be used.
4. The **Contractor** shall submit a written estimate of the volume of gravel envelope to be installed in the monitoring well annulus.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. The gravel, if stockpiled on site, shall be separated from the adjacent ground and kept free of all foreign matter at all times.

PART 2 PRODUCTS

2.01 MATERIALS

A. Borehole Seals:

1. Bentonite Slurry: Bentonite slurry shall be used adjacent formations where the gravel envelope is not installed, and impervious sealing material is not required.
2. Bentonite:
 - a. The bentonite shall be 3/8 or 1/2 -inch diameter pellets or chips manufactured by Barrio or approved equal.
 - b. Used driller's mud or cuttings or pellets or chips from drilling the borehole shall not be used.

B. Gravel Envelope

1. All gravel shall be hard, water worn gravels, washed clean of shale, mica, clay, dirt, loam and organic impurities of any kind (crushed gravel will not be accepted). The materials shall be mostly siliceous with a limit of five (5)- percent by weight of calcareous material. It shall be semi to well-rounded and graded.
2. All gravel is subject to approval by the **Consultant** prior to use in the packing process. For bidding purposes:
3. The gravel envelope filter pack shall be:
 - a. SRI 8 x 16 or approved equal.

2.02 EQUIPMENT

- A. A gravel pump will be required to install the gravel. A gravel hopper as part of an approved gravel installation system shall be employed to measure the gravel placed downhole.
 1. The **Contractor** shall submit a schematic drawing of the gravel installation system.

- B. A minimum of 2-inch diameter tremie pipe shall be provided to reach within five (5) feet of the bottom of the borehole.
- C. A device approved by the **Consultant** shall be used to sound the level of the gravel throughout the placement of the envelope.

PART 3 EXECUTION

3.01 PROCEDURES

A. Borehole Seal Placement

1. A combination of bentonite and bentonite slurry shall be used to seal the bottom of the 8-inch pilot hole as specified by the **Consultant**
2. The **Contractor** shall submit his estimate of the volume of bentonite and bentonite slurry to be installed.
3. Prior to placement of the bentonite or bentonite slurry, the drilling fluid shall be thinned with clean water. Initial circulation of fluid will be accomplished through the tremie pipe. The drilling fluid viscosity must be 30 sec./qt. Per Marsh funnel measurement and the drilling fluid density below 8.9 lbs/gal before gravel packing commences. Refer to Section 02523-160 Drilling Fluid
4. The borehole seals, bentonite slurry, and bentonite shall be installed using a tremie pipe and a positive placement technique from the bottom of the borehole.
 - a. The tremie pipe shall be removed in approximately twenty (20) foot intervals when the common gravel in the borehole reaches the bottom of the tremie pipe.
 - b. At no time shall the bottom of the tremie pipe be greater than 40 feet above the top of the sealing material.
5. The sealing materials placement shall continue uninterrupted to the depth as specified by the **Consultant**.
6. The top of the seals shall be sounded to confirm the placement of the bentonite intervals, and to ensure that no bridging occurred during placement. Sounding shall occur after bentonite placement, and at the top of the borehole seals.
7. Bentonite clay shall be placed opposite potentially confining formations to prevent vertical movement of groundwater from the producing formations. Bentonite clay intervals will be installed from 10 feet below to 10 feet above a potentially confining unit.
8. The quantities of gravel initially placed around the casing and screen assembly shall not be less than the estimated volume of the annular space as determined by the **Consultant**.

- a. A quantity less than the computed value may be judged as an indication of voids and corrective measures may be required by the **Contractor**.
- b. If a significant (35%) difference between the estimated and actual volume of seal installed is found to exist, the discrepancy may be grounds for rejection of the well by the **Contractor**.

B. Gravel Envelope Placement

1. The **Contractor** shall submit his estimate of the volume of gravel to be installed.
2. The **Contractor** shall supply the devices required to measure the volume of gravel placed in the well as submitted and approved in the gravel installation system.
3. The gravel envelope shall be installed in the annular space between the reamed hole and the casing through the tremie pipe installed for the borehole seals.
 - a. The tremie pipe shall be removed in approximately twenty (20) foot intervals when the gravel in the borehole reaches the bottom of the tremie pipe.
 - b. At no time shall the bottom of the tremie pipe be greater than 40 feet above the top of the gravel during gravel installation.
4. The gravel placement shall continue uninterrupted until the height of the gravel envelope reaches the depth of the next borehole seal or annular seal as specified by the **Consultant**.
5. After the gravel envelopes have been placed to the depth specified, a swab shall be carefully worked opposite all screened sections. As the gravel settles, more shall be added. This operation shall continue until there is no further measurable settlement of the gravel.
6. Upon completion of the initial gravel placement and swab operation, and after removal of the swab, all rock, sand, and foreign materials shall be removed from the casing by bailing.
7. The quantities of gravel initially placed around the casing and screen assembly shall not be less than the estimated volume of the annular space as determined by the **Consultant** from the bit diameter and total depth.
 - a. A quantity less than the computed value may be judged as an indication of voids and corrective measures may be required by the **Contractor**.
 - b. If a significant (35%) difference between the estimated and actual volume of pack installed is found to exist, the discrepancy may be grounds for rejection of the well by the **Contractor**.

END OF SECTION

SECTION 02523-331

BOREHOLE SANITARY SEAL

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:

1. This work includes all materials, labor, tools, and equipment to install the sanitary seal as specified.

B. Related Sections

1. Section 02523-160 Drilling Fluid

C. Measurement and Payment

1. Measurement

- a. The unit for this work is Linear (vertical) Feet of annular seal installed and shall be based on measurement from the bottom of the seal to the top of the seal, respectively, for any given sanitary seal.

2. Payment

- a. Unit prices for payment for the annular seals shall be as set forth in the BID SCHEDULE for items:

- 1) Item No. 13 Sanitary Seal

D. Progress payments and final payment can be made for this Item.

E. Measurement and Payment Procedures

1. Payment for the annular seal will be based on measurement of vertical feet of sand-cement grout installed.

1.02 DEFINITIONS

A. Sanitary Seal

1. Seals the annular space between the well casing and the borehole wall.

1.03 SUBMITTALS

- A. The **Contractor** shall submit the positive placement technique, which will be employed to place the annular seal for approval. The submittal shall include the equipment, appurtenances, and techniques proposed for placement of the seal under positive pressure.

- B. Certified test reports to show compliance with both the physical and chemical properties of the sealing material used for the seal is required including delivery receipts for commercially prepared and supplied sealing material. This includes additives for a quick-setting cement for a less than 24-hour set time per State Standards.

PART 2 PRODUCTS

2.01 MATERIALS

A. Sealing Material

1. Sand-Cement Sealing Material: A sand-cement sealing material shall be used for the annular seal.
 - a. Sand-Cement “grout”: “Sand-cement shall be mixed at a ratio of not more than 188 pounds of sand to one 94-pound sack of Portland cement (2 parts sand to 1 part cement, by weight) about 7 gallons of clean water, where Type I or Type II Portland cement is used. This is equivalent to a “10.3 sack mix.”
 - b. Cement: Cement used in sealing mixtures shall meet the requirements of American Society for Testing and Materials C150, Standard Specification for Portland Cement, including the latest revisions thereof.
 - 1) Special cement setting accelerators and retardants and other additives may be used in some cases with **City** approval. Special field additives for Portland cement mixtures shall meet the requirements of ASTM C494, Standard Specification for Chemical Admixtures for Concrete, including the latest revisions thereof. ASTM C150 Type I cement is equal to API Class A cement.
 - c. Water: Water used to prepare sealing mixtures should generally be of drinking water quality, shall be compatible with the type of sealing material used, be free of petroleum and petroleum products, and be free of suspended matter. The quality of water to be used for sealing mixtures shall be determined where unknown.
 - d. Additives: Materials used as additives for Portland cement mixtures in the field shall meet the requirements and latest revisions thereof, ASTM-C494, Standard Specifications for Chemical Admixtures for Concrete and be Approved by the **City** prior to use by the **Contractor**.
 - e. Mixing: Cement-based sealing materials shall be mixed thoroughly to provide uniformity and ensure that no lumps exist.
2. Variations: Ratios of the components of cement-based sealing materials can be varied, depending upon the type of cement and additives used. **City** and Environmental Health Department (Lead District for Permit) approval of variations must be received prior to placement.
3. Bentonite: Bentonite is allowed as an additive to cement-based sealing mixes, at a ratio of up to 6% by weight of cement used. If bentonite is to be used, it must be proposed in the submittal for sealing material.

B. Bentonite (Transition Seal)

1. The bentonite shall be 3/8 or 1/2 -inch diameter pellets manufactured by Bariod or approved equal.

2. Using driller's mud or cutting or pellets or chips from drilling the borehole shall not be used.

PART 3 EXECUTION

3.01 TYPES OF SEALS

A. Seal shall be composed of:

1. A minimum three (3) foot bentonite transition seal placed above the gravel envelope used around the monitoring well screen.

3.02 PROCEDURES

A. After approval from the **Consultant** to proceed with and at the completion of monitoring well construction, the Contractor shall install the sanitary seal.

B. The **Contractor** shall notify the permitting agency of the intent to place the seal and request inspection.

C. Placement of the Transition Seal:

1. Transition seals shall be installed using a tremie pipe.
2. The top of the seals shall be sounded to ensure that no bridging occurred during placement. Sounding shall occur after placement of sand packs or bentonite seals.

D. Annular Seal Placement

1. After completion of placement of the gravel envelope around the well screens, the **Contractor** shall place the sanitary seal to depths specified by the **Consultant**.
2. The sanitary seal will be placed in one continuous pour.
3. Where sealing material is to be introduced under water or the interval cannot be observed from the surface, the **Contractor** shall employ a positive placement technique as submitted to the **Consultant** for approval.
4. The sealing material shall always be introduced at the bottom of the interval to be sealed. The tremie pipe shall be gradually withdrawn as the sealing material is placed to prevent excessive pressures against the well casing. The end of the tremie pipe must remain submerged in the sand-cement sealing material during placement.
5. After the sand-cement sealing material is placed, no work shall be conducted on the monitoring wells for 24 hours.

END OF SECTION

SECTION 02523-341

NESTED MONITORING WELL DEVELOPMENT

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:

1. This work includes all materials, labor, tools, and equipment to conduct monitoring well development.

B. Purpose

1. The purpose of well development is to remove drilling fluids and residues and to develop the gravel pack and aquifer to maximize the yield of the well.
2. The process shall consist of swabbing and airlift pumping of the well following gravel packing; bailing the well of materials introduced into the casing during swabbing; the installation of a submersible test pump; and pumping of the well until the well is fully developed and meets the requirements of minimum sand and turbidity production.

C. Related Sections

1. Section 02523-331 Borehole Sanitary Seals

D. Measurement and Payment

1. Measurement

- a. The unit for this work is by hourly unit rate time for all work associated with monitoring well development.

2. Payment

- a. Unit prices for well development shall be as set forth in the BID SCHEDULE for items:
 - 1) Item No. 14, Well development – Bailing and Surging/Air Lifting
 - 2) Item No. 15, Furnish and Install Test Pumps
 - 3) Item No. 16, Pump Development
- b. Progress payments and final payment can be made for this Item.
- c. No payment will be made for running equipment into or out of the well.

PART 2 PRODUCTS

2.01 EQUIPMENT

- A. General: The **Contractor** shall provide sufficient drill pipe and mechanical swab tool with a single rubber packer assembly designed to be operated in the screen casing of the wells.
- B. Test Pump
 - 1. The **Contractor** shall furnish a 2-inch diameter submersible pump capable of pumping up to 10 gpm against up to 140 feet of head not including friction losses. The bowl setting shall be at 50 feet below the water surface unless otherwise specified by the **Consultant**.

PART 3 EXECUTION

3.01 TIMING

- A. Upon Approval by the **Consultant** of the annular seal, the **Contractor** shall perform monitoring well development after the specific set time for the annular seal.

3.02 PROCEDURES

A. General Development Methods

- 1. Development is required to clean all drilling fluids, mud wall cake, and other substances from the envelope area to prevent any impairment of flow into the well.
 - a. Initial Development: Cleaning shall be initially accomplished by swabbing the screen sections. Following swabbing of the well screen, water from the borehole shall be airlifted until sediments in the water decrease to a minimal level.
 - b. Final Development: final development will be by submersible pump, pumping to waste until the water is clear (Turbidity of less than 5 NTUs).

B. PROCEDURES FOR INITIAL WELL DEVELOPMENT

1. Swab Development

- a. Swabbing operations will be conducted from the bottom screen section to the top.
- b. Screen sections will be swabbed for a minimum of four (4) minutes per foot of well screen or until cleaned of all drilling fluids.
- c. During development, the swab shall be moved slowly, up and down, to achieve a swabbing action across the screen section.

2. Air-lift Development

- a. After completion of the swab development, airlift pumping shall commence.

- b. Screen sections will be air-lifted for a minimum of four (4) minutes per foot of well screen or until cleaned of all drilling fluids.
- c. Water from the airlifts may not flow off property or reach the stormwater system. It may be applied to the land and allowed to percolate on-site following approval by the **City** prior to development.

C. FINAL DEVELOPMENT

- 1. Within five (5) days after the completion of initial development, the submersible pump and piping assembly shall be installed and functioning.
- 2. The water generated during final development shall not be allowed to flow off-site or to the stormwater system but may be applied to the adjacent land and allowed to percolate on-site following approval of the **City**.
- 3. In no case shall development pumping-time be less than 1 hour.
- 4. Development pumping shall commence at a low rate and increase in increments until the maximum flow rate of the pump is reached.
- 5. Development records shall be maintained at a frequency of 30 minutes showing:
 - a. Production rate
 - b. Pumping water level
 - c. Water surface drawdown to the nearest 0.01 foot
 - d. Sand production observations
 - e. And all other pertinent information concerning well development, quality of water, presence of gases, color or other information.
- 6. Development shall be considered complete when the turbidity is less than 5 NTUs, or as directed by the **Consultant**.
- 7. At the end of the final development, water quality samples shall be collected by the **Consultant**.
- 8. After completion of development pumping, the **Contractor** shall measure the depth of the well to determine the amount of sediment deposited in the bottom. If the amount of sediment is greater than five (5) feet, the **Contractor** shall pull the pump and clean the well of all accumulated sediment and foreign material.

END OF SECTION

SECTION 02523-420

BOREHOLE DESTRUCTION

PART 1 GENERAL

1.01 DESCRIPTION

- A. The **Contractor**, at the specific direction of the **Consultant**, may be required to abandon all or portions of the pilot borehole.

1.02 SUBMITTALS

Not used.

1.03 MEASUREMENT AND PAYMENT

A. Measurement

- 1. Abandonment of the borehole specifically requested by the **Consultant** shall be paid for on a per linear foot basis at the unit price in Bid Item No. 17.

B. Payment

- a. Unit prices for payment for the annular seals shall be as set forth in the BID SCHEDULE for items:
- 2. Item No. 17, Borehole Destruction
- 3. Payment shall be considered full compensation for furnishing all labor, materials, tools, and equipment necessary and incidental to completion of the work, as specifically requested by the **Consultant**.
- 4. No payment will be granted for destruction or abandonment of the borehole or well due to actions of the **Contractor**.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

A. Abandonment Prior To Installation of Monitoring Well Casing

- 1. Abandonment Due to Actions of The **Contractor**
 - a. If abandonment of the drilled hole is by reason of any actions of the **Contractor**, including but not limited to such causes as losing tools, damaging the well, misalignment, or any other cause attributed to careless or poor workmanship, the hole shall be completely filled with bentonite or other impervious earth materials in accordance with applicable State and County Standards. No payment will be made for drilling and filling the hole for abandoned, or for mobilization and

demobilization, and the **Contractor** shall drill a new hole within 50 feet of the same location.

2. Abandonment at Request of **Consultant**

- a. If abandonment of the drilled hole is specifically requested by the **Consultant**, including, but not limited to such causes as total lack of potential aquifers, insufficient number of potential aquifers, or unacceptable water quality, the hole shall be completely filled with concrete. In this event, the Contractor will be paid for mobilization and demobilization at this site, as well as for the footage of drilling completed.
- b. Abandonment hereunder shall also include payment for abandonment of any remaining or unused portion of the pilot hole that is not being used for final well completion. Unused portions of the borehole will be filled with bentonite.

B. Abandonment During or After Installation of Casing And/Or Well Screen

1. Abandonment Due to Actions of The **Contractor**

- a. Abandonment of the reamed hole can be caused by reason of any action of the **Contractor** or negligence. In such event, the **Contractor** shall pull or leave the casing(s) in place, at his discretion. If the casing is pulled, the hole shall be abandoned in accordance with applicable state and county standards. No payment will be granted for lost or damaged casings and/or their installation in a well abandoned by reason of any action of the **Contractor**. The **Contractor** shall be required to drill a new well within 50 feet of the original site.
- b. The **Contractor** may salvage as much casing and screen from the well as possible and may use it in the new well, subject to acceptance by the **Consultant**. Salvaged material, if not used in another well, will remain the property of the **Contractor**.

2. Abandonment at Request of **Consultant**

- a. If abandonment of the drilled hole is specifically requested by the **Consultant**, including, but not limited to such causes as total lack of potential aquifers, insufficient number of potential aquifers, or unacceptable quality, the hole shall be completely filled with bentonite or other impervious earth materials in accordance with applicable State and County Standards. In this event, the **Contractor** will be paid for mobilization and demobilization at this site, as well as for the footage of drilling completed. The Contractor may then be requested to remobilize at a second pilot hole site selected by the **Consultant**. No payment for stand-by time while awaiting a second pilot hole site will be made.

- b. Abandonment hereunder shall also include payment for abandonment of any remaining or unused portion of the pilot hole that is not being used for final well completion.
- c. Payment for pilot hole abandonment, if required, and if specifically requested by the **Consultant** as set forth above shall be made on a unit price per linear foot, and shall be considered full compensation for all time, materials, and equipment required to complete the abandonment.

END OF SECTION

SECTION 02523-440

SITE CLEANUP

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:

1. This work includes all materials, labor, tools, and equipment to perform all site cleanup and any incidentals, therefore.

B. Related Sections

1. Section 01501 - Temporary Facilities
2. Section 01505 - Mobilization

C. Measurement and Payment

1. Measurement - no measurement shall be made for Site Cleanup.
2. Payment - no separate payment for Site Cleanup will be made in this contract. Progress payments and final payment for all Site Cleanup shall be included under Section 01505 – Mobilization.
3. There will be no additional payment for rig time or idle time while site cleanup is being conducted.

PART 2 PRODUCTS

(NOT USED)

PART 3 EXECUTION

3.01 CLEANING

- ###### A. The **Contractor** shall keep the premises free from accumulations of waste materials, rubbish, and other debris resulting from the work, and at completion of the work, he shall remove all waste materials, rubbish, and debris from and about the well site as well as all tools, construction equipment, fuel tanks, machinery, and surplus materials.

1. The **Contractor** shall leave the site clean and ready for use by the **City**.
2. The **Contractor** shall restore, to an equal or better condition, all temporary work areas.
3. All mud trenches are to be backfilled and compacted.
4. All fill materials placed for access shall be removed.
5. The **Contractor** is responsible for any damages to properties adjacent to the well caused by drilling, construction, or well testing activities associated with the work described in the contract documents.

END OF SECTION

SECTION 02523-501

WELL APPURTENANCES

PART 1 GENERAL

1.01 SUMMARY

A. Section includes:

1. This section describes the installation of the well enclosure, well pad, and installation of the well seals and crash posts.

B. Measurement and Payment

1. Measurement

- a. The unit for well appurtenances shall be by LUMP SUM for each single or nested monitoring well.

2. Payment

- a. Unit prices for payment for the well appurtenances shall be set forth in the BID SHEET for items:

- 1) Item No. 18, Furnish and Install Enclosures and Bollards.

PART 2 MATERIALS

2.01 WELL PAD

- A. The well pad shall be concrete. No rebar is required. Pad shall be of sufficient thickness to allow for future electrical vault and conduit to be installed. PVC conduit shall be installed to allow for the future installation of measurement devices.

2.02 WELL SEAL

- A. The monitoring wells shall have a 2-inch diameter water-tight locking expansion plug.

2.03 WELL ENCLOSURE

- A. The well enclosure shall be 16-inch diameter x 5-foot-tall steel monument well cover or approved alternate.
- B. The monument shall be equipped with a locking cap.

2.04 BOLLARDS

- A. Bollards shall be constructed of 4-inch diameter by 6-foot long low-carbon steel Schedule 40 pipe and grout.

PART 3 EXECUTION

3.01 WELL PADS AND ENCLOSURE

- A. The **Contractor** shall construct the well pad to the dimensions specified below.
 - 1. The pad shall be four (4) feet long by four (4) feet wide by ten (10) inches thick.
 - 2. The pad shall be formed and finished so that the concrete gently slopes away from the well enclosure.
- B. The **Contractor** shall construct the well enclosure to the dimensions specified below.
 - 1. The well enclosure shall be installed with an approximate 2.5-foot stickup above the ground surface and shall be seated in the sanitary seal.
 - 2. The top of the well casing shall be no more than six (6) inches and no less than three (3) inches below the rim of the well enclosure cover. The inside of the well enclosure shall be filled with sand to no more than six inches below the top of the well casings.
 - 3. Four (4) 1/8-inch diameter holes shall be drilled into the well enclosure, about 90 degrees apart, within 2-inches of the top of the concrete pad to allow any accumulated water to drain.

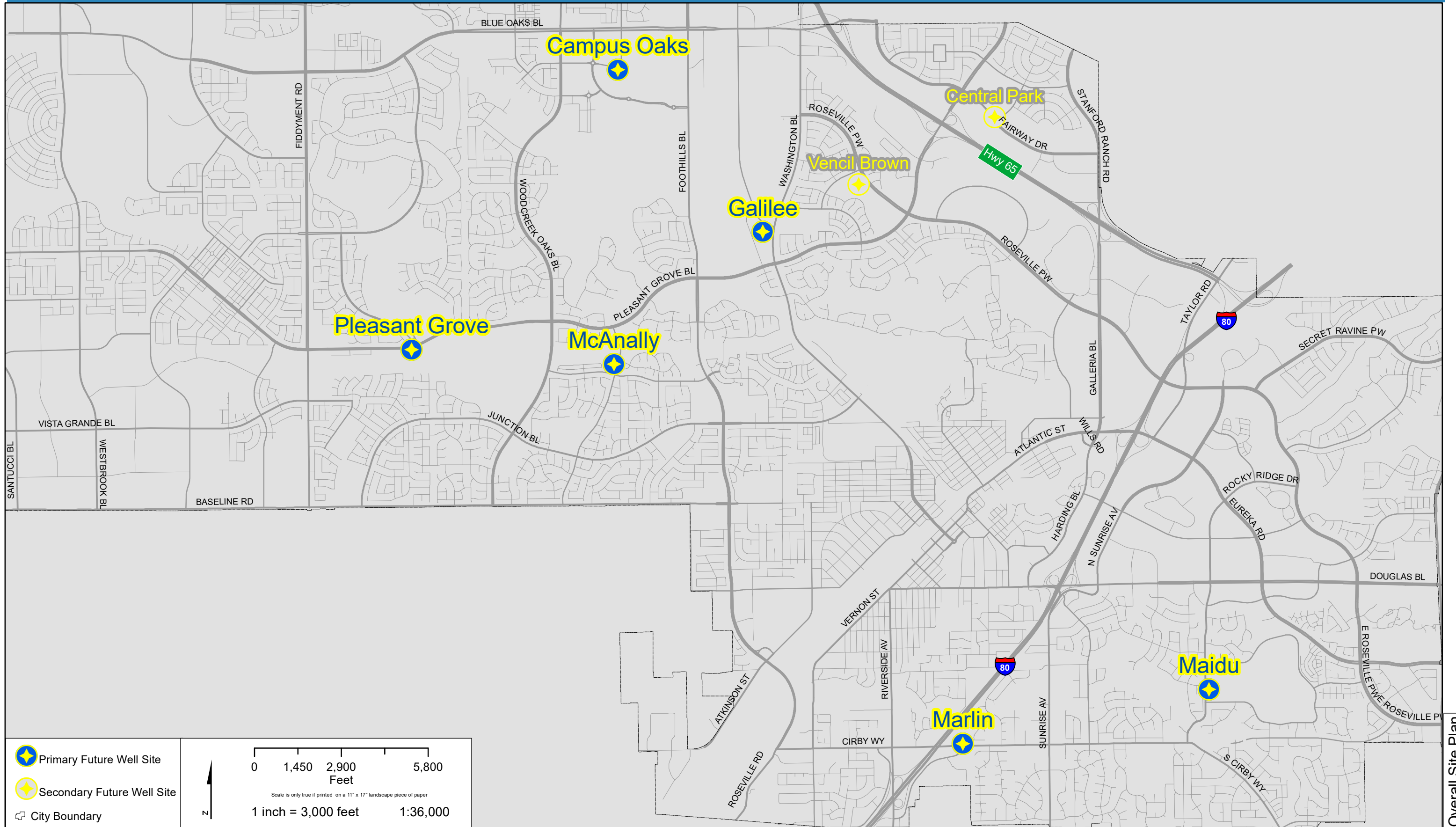
3.02 BOLLARDS

- A. Four (4) bollards shall be installed surrounding each well pad.
 - 1. The Contractor shall drill 8-inch diameter holes to a depth of 2-feet below ground surface.
 - 2. Upon completion of drilling the holes, the Contractor shall center the 4-inch diameter pipe in the holes and grout them in place.
 - 3. The entire 4-inch pipe shall be grouted to the top of the pipe and mounded

3.03 PAINTING

- A. The enclosure and crash posts shall be painted bright yellow paint similar to other Roseville installations.

END OF SECTION



Primary Future Well Site

Secondary Future Well Site

City Boundary

0

1,450

2,900

5,800

Feet

Scale is only true if printed on a 11" x 17" landscape piece of paper

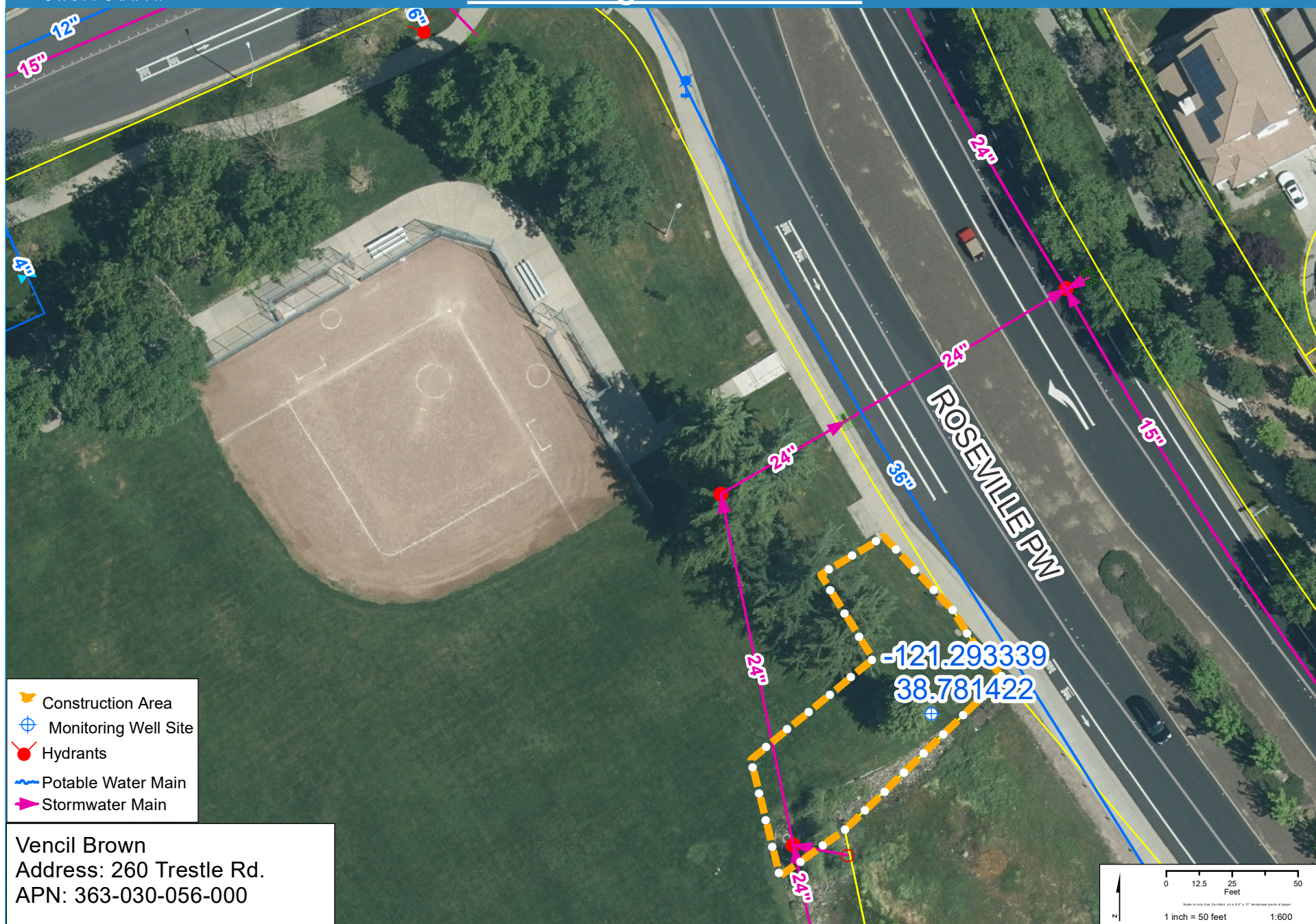
1 inch = 3,000 feet

1:36,000

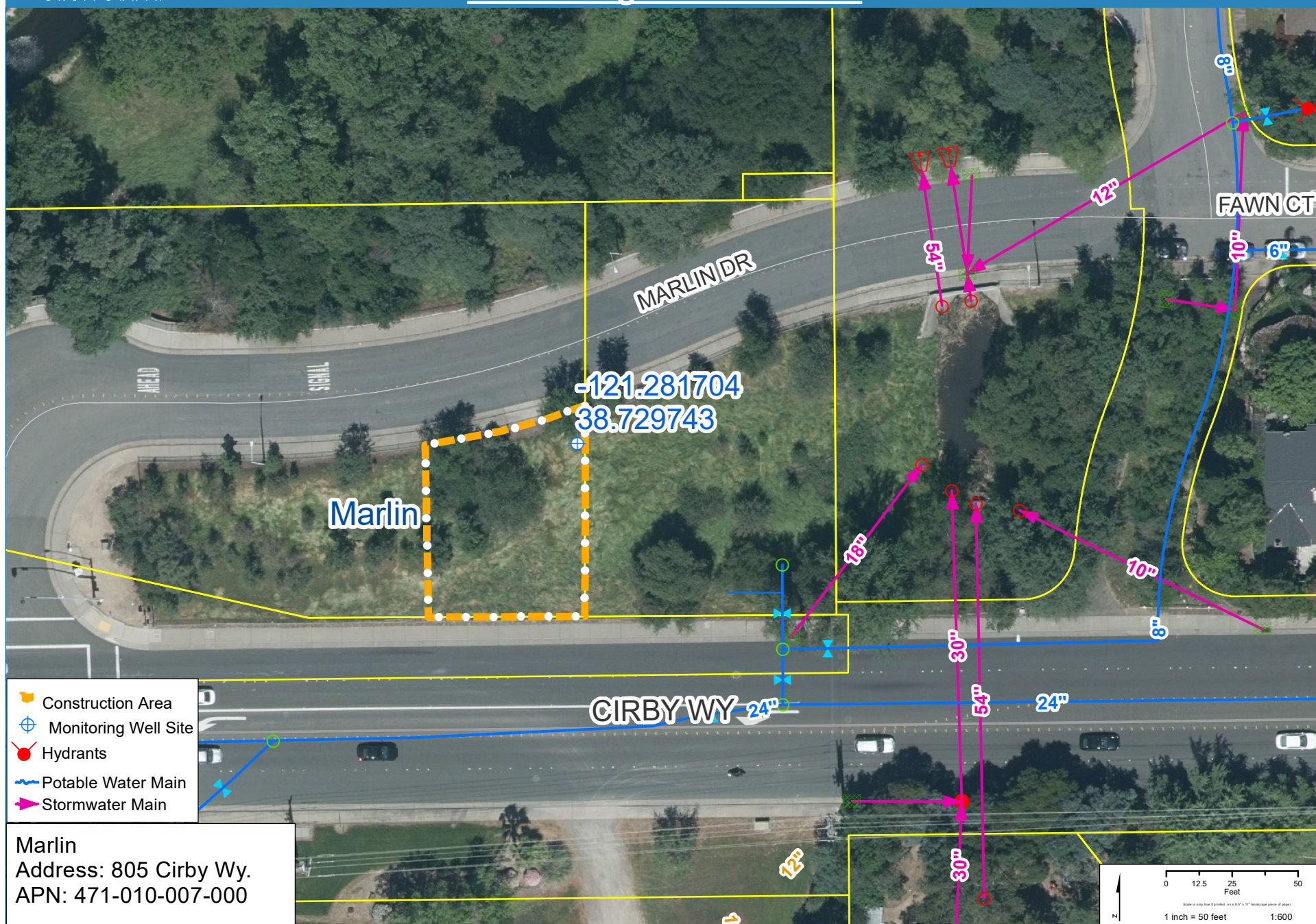
Monitoring Well Site Plan







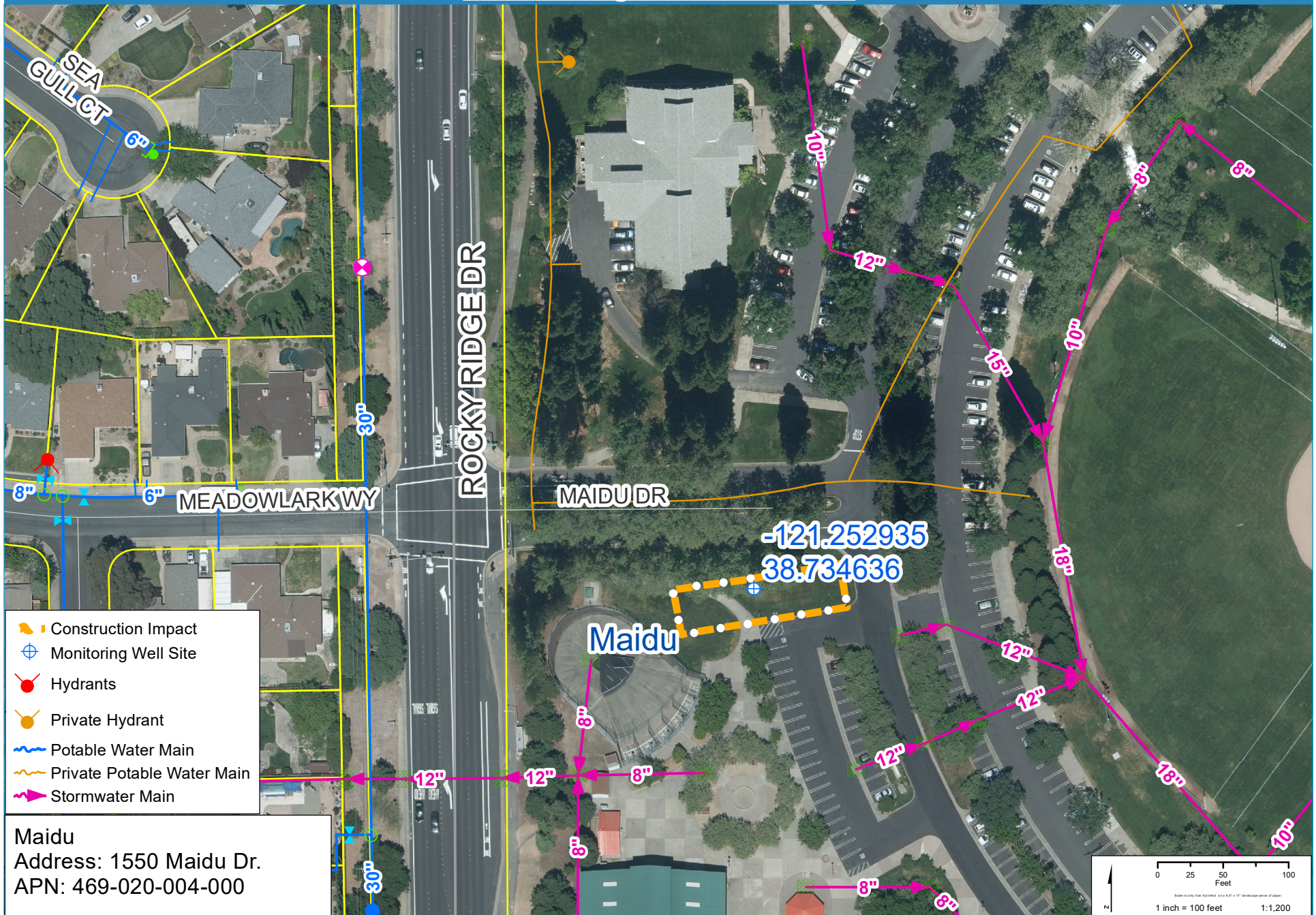
Monitoring Well Site Plan





McAnally
Address: 3801 Country Club Dr.
APN: 017-380-013-000

Monitoring Well Site Plan

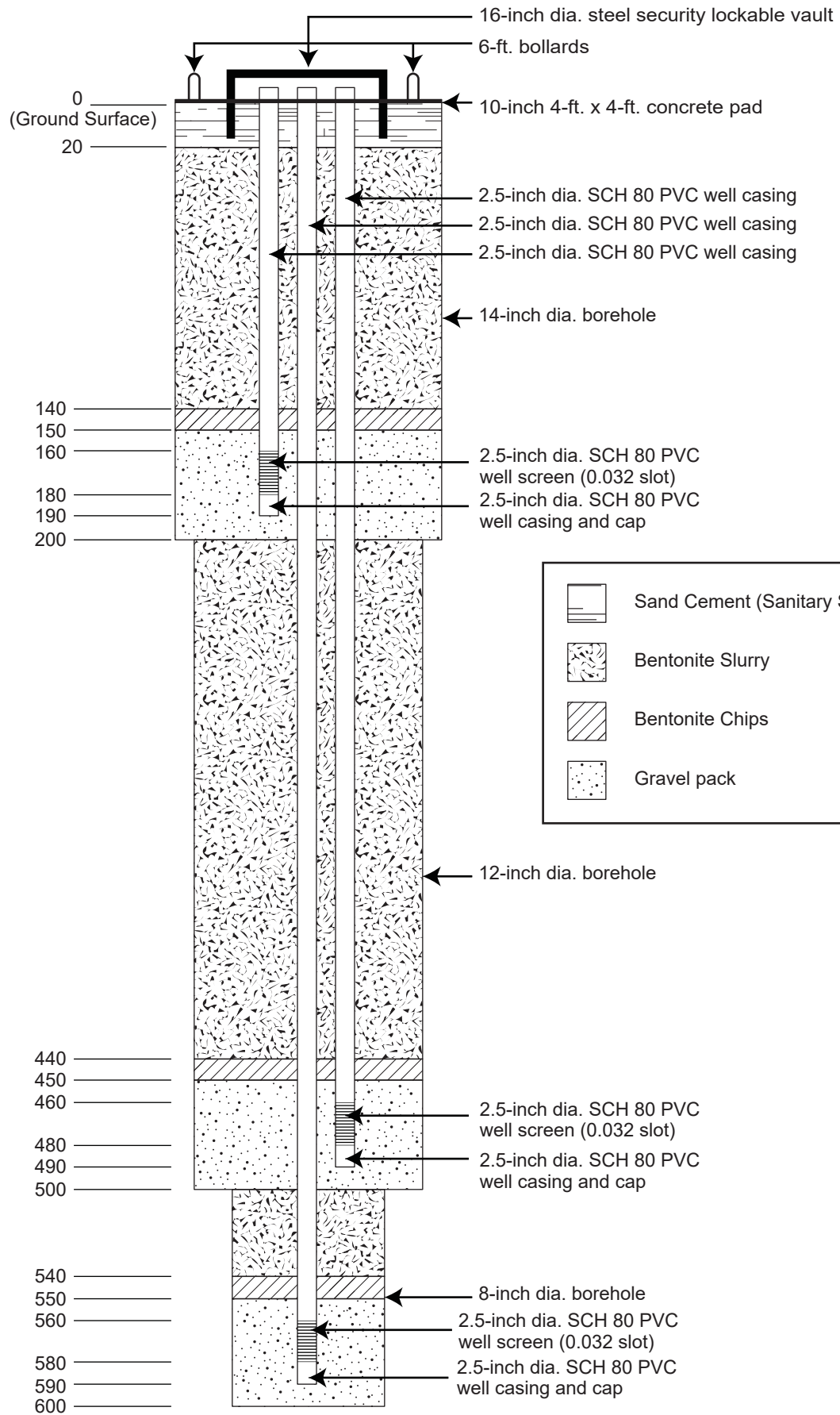




Monitoring Well Site Plan



Depth Below Ground Surface (feet)



NOTE: NOT TO SCALE

Typical Monitoring Well Design
City of Roseville

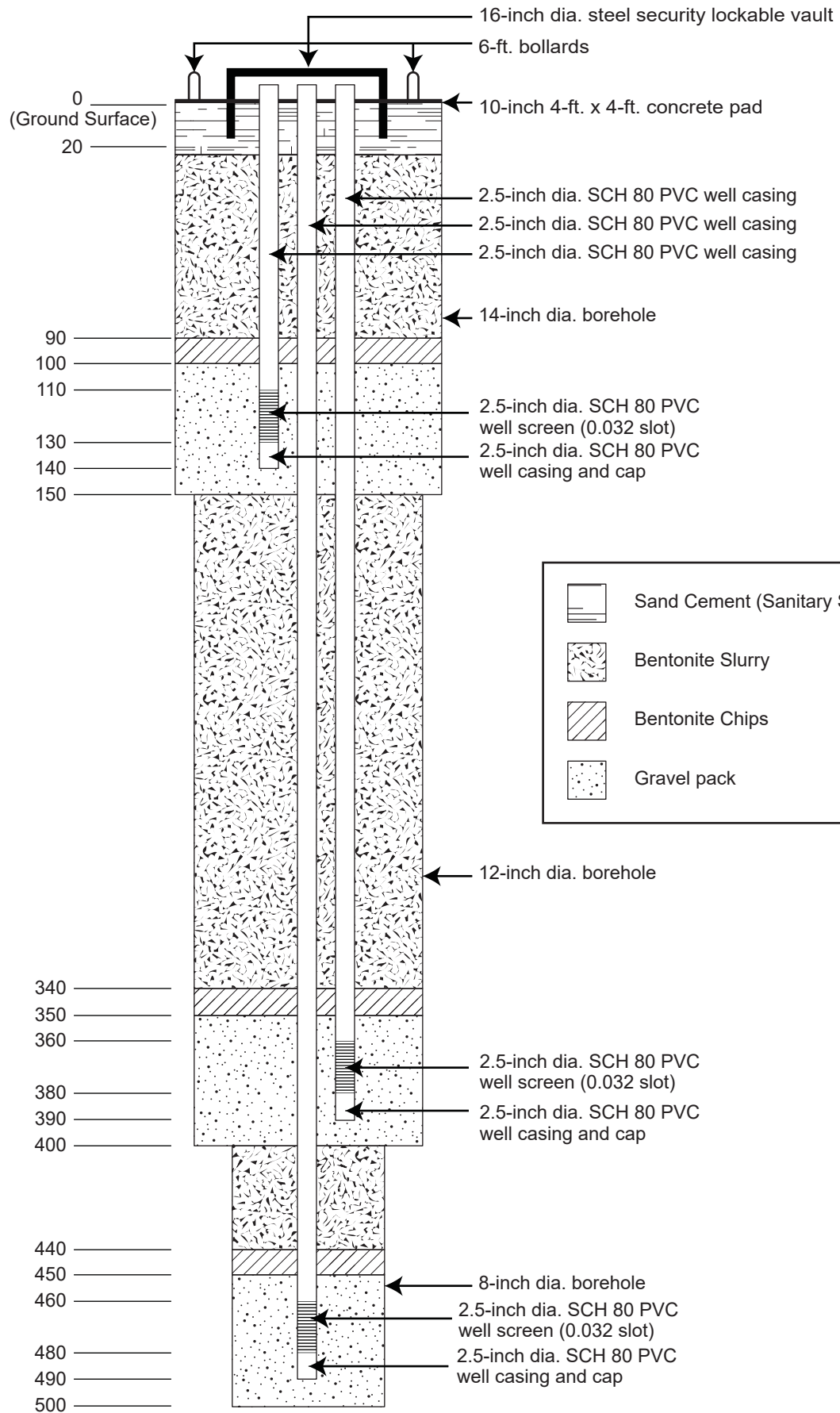
ASR Monitoring Well Construction

Nested Monitoring Well
Construction Details
Pleasant Grove

March 2020

Figure 10

Depth Below Ground Surface (feet)



Typical Monitoring Well Design
City of Roseville

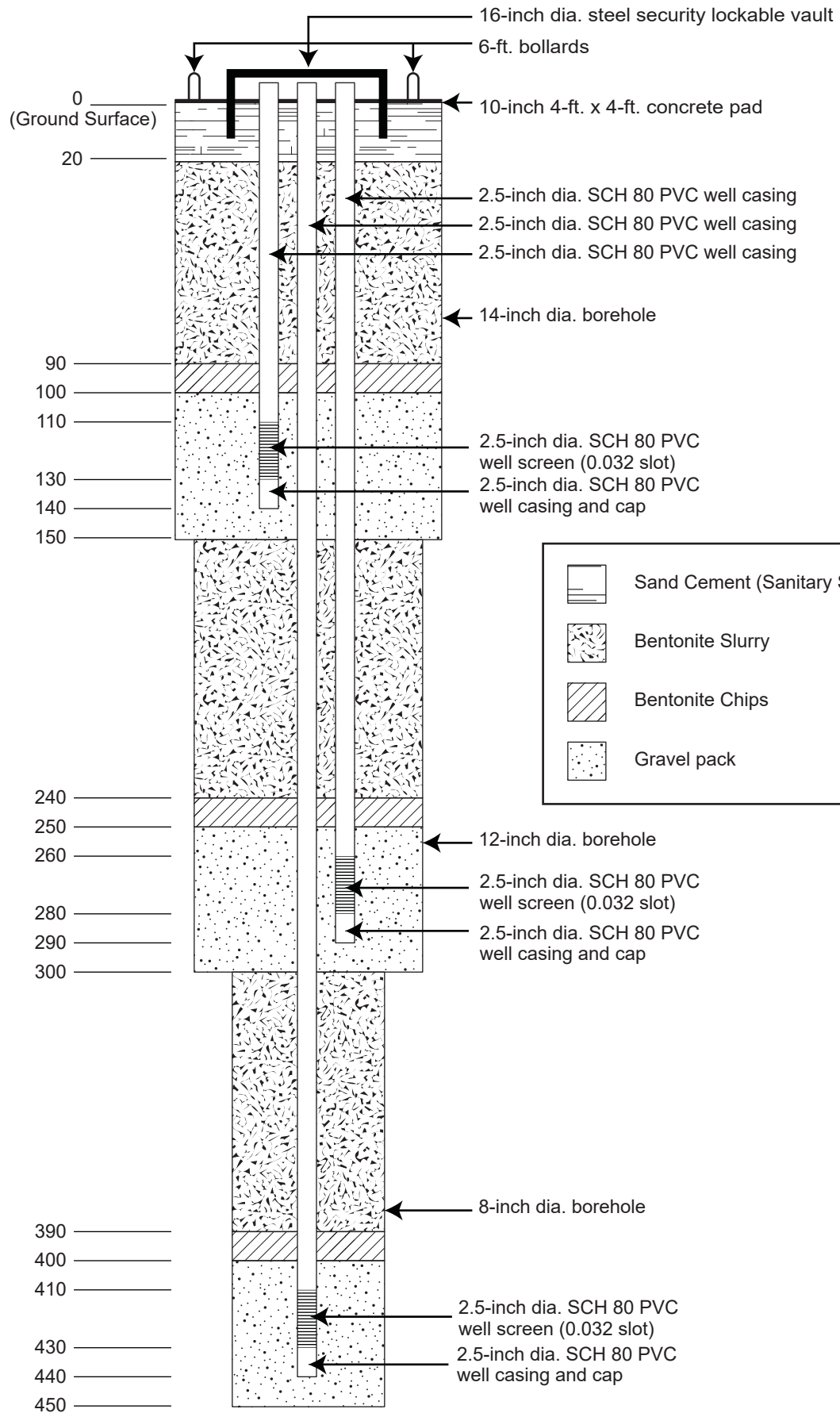
ASR Monitoring Well Construction

Nested Monitoring Well
Construction Details
Campus Oaks

March 2020

Figure 11

Depth Below Ground Surface (feet)



NOTE: NOT TO SCALE

Typical Monitoring Well Design
City of Roseville

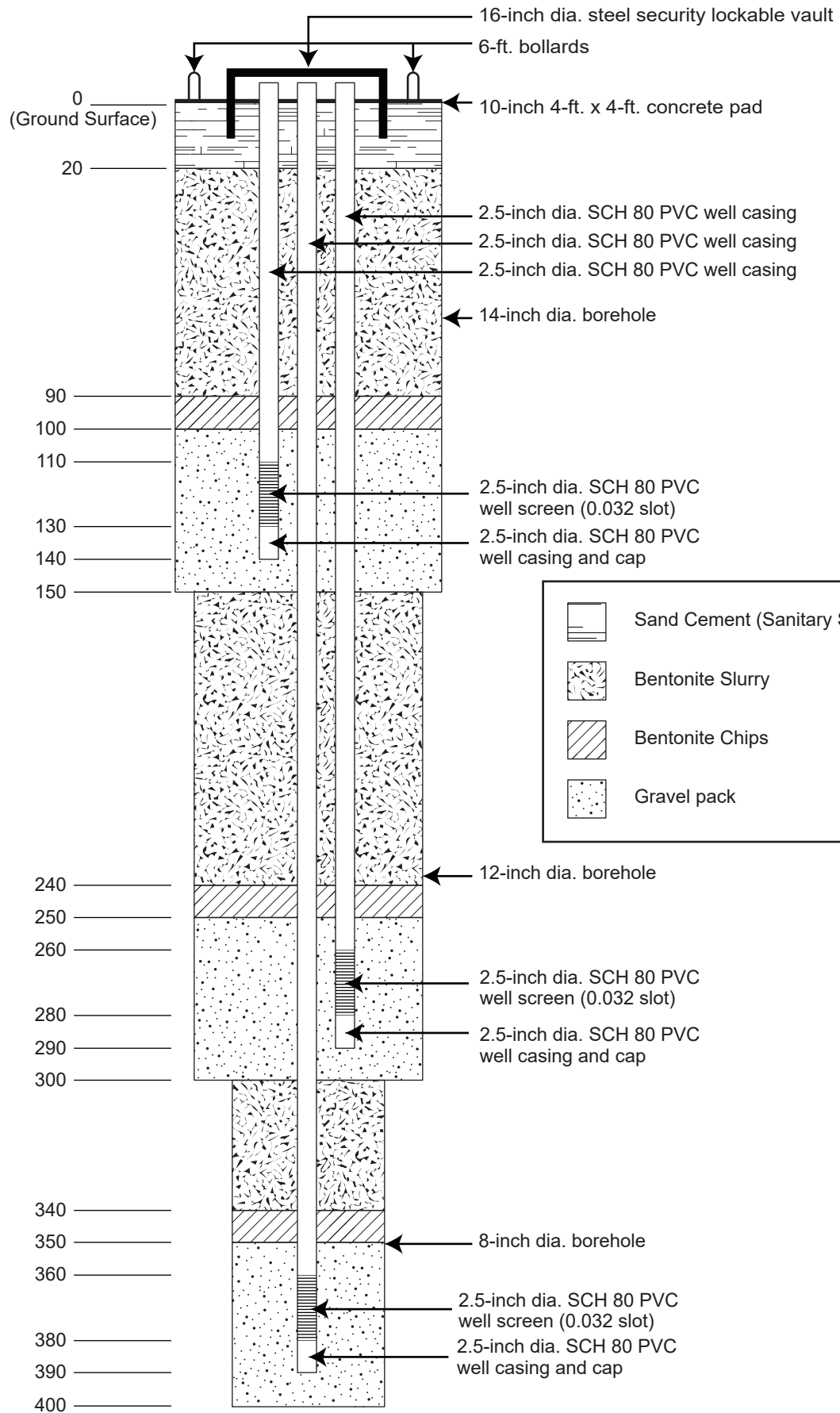
ASR Monitoring Well Construction

Nested Monitoring Well
Construction Details
Galilee

March 2020

Figure 12

Depth Below Ground Surface (feet)



NOTE: NOT TO SCALE

Typical Monitoring Well Design
City of Roseville

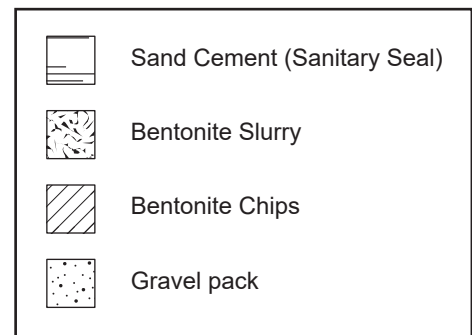
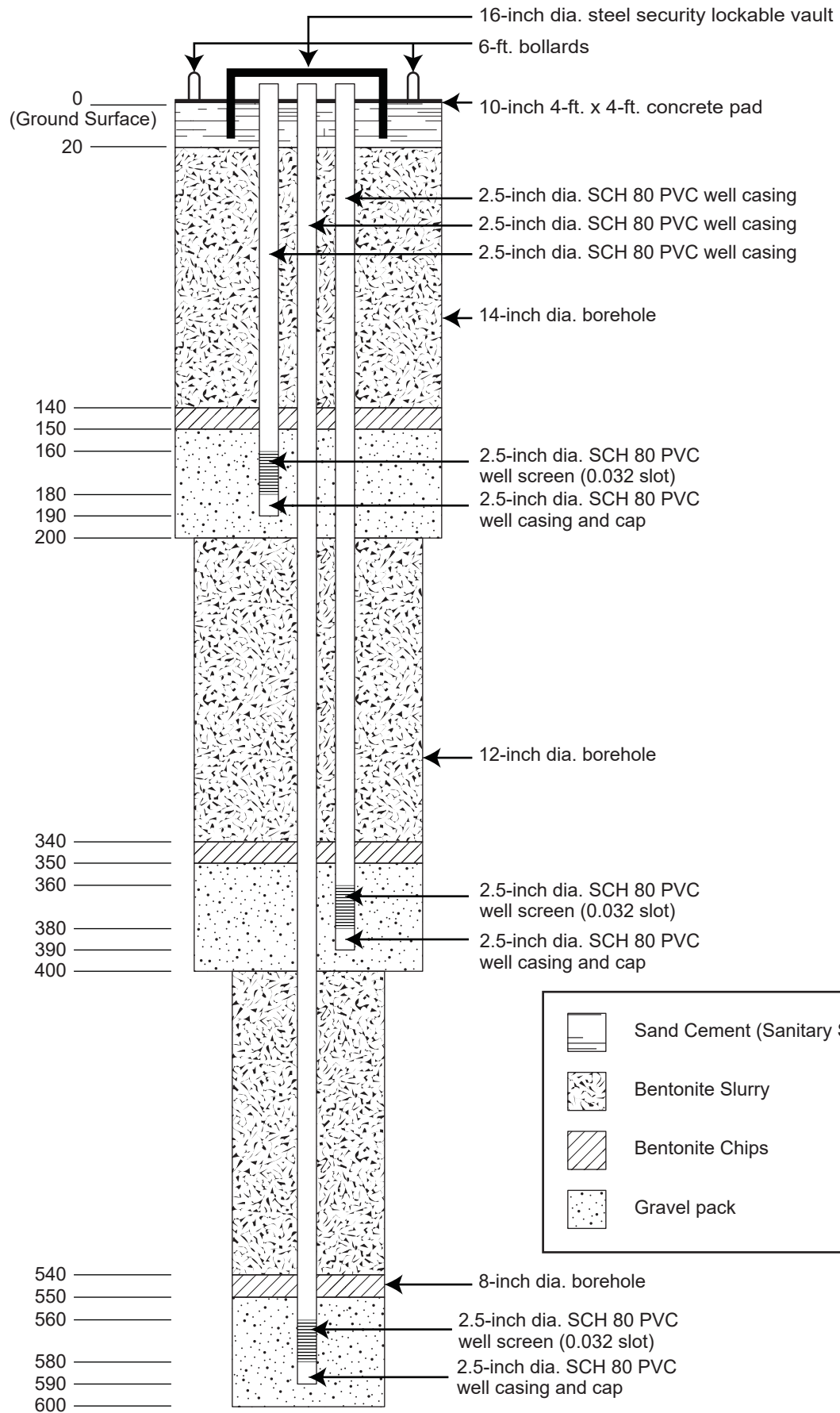
ASR Monitoring Well Construction

Nested Monitoring Well
Construction Details
Marlin

March 2020

Figure 13

Depth Below Ground Surface (feet)



NOTE: NOT TO SCALE

Typical Monitoring Well Design
City of Roseville

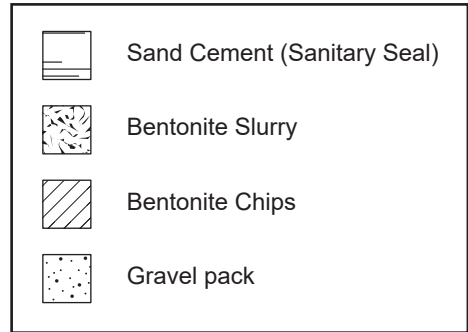
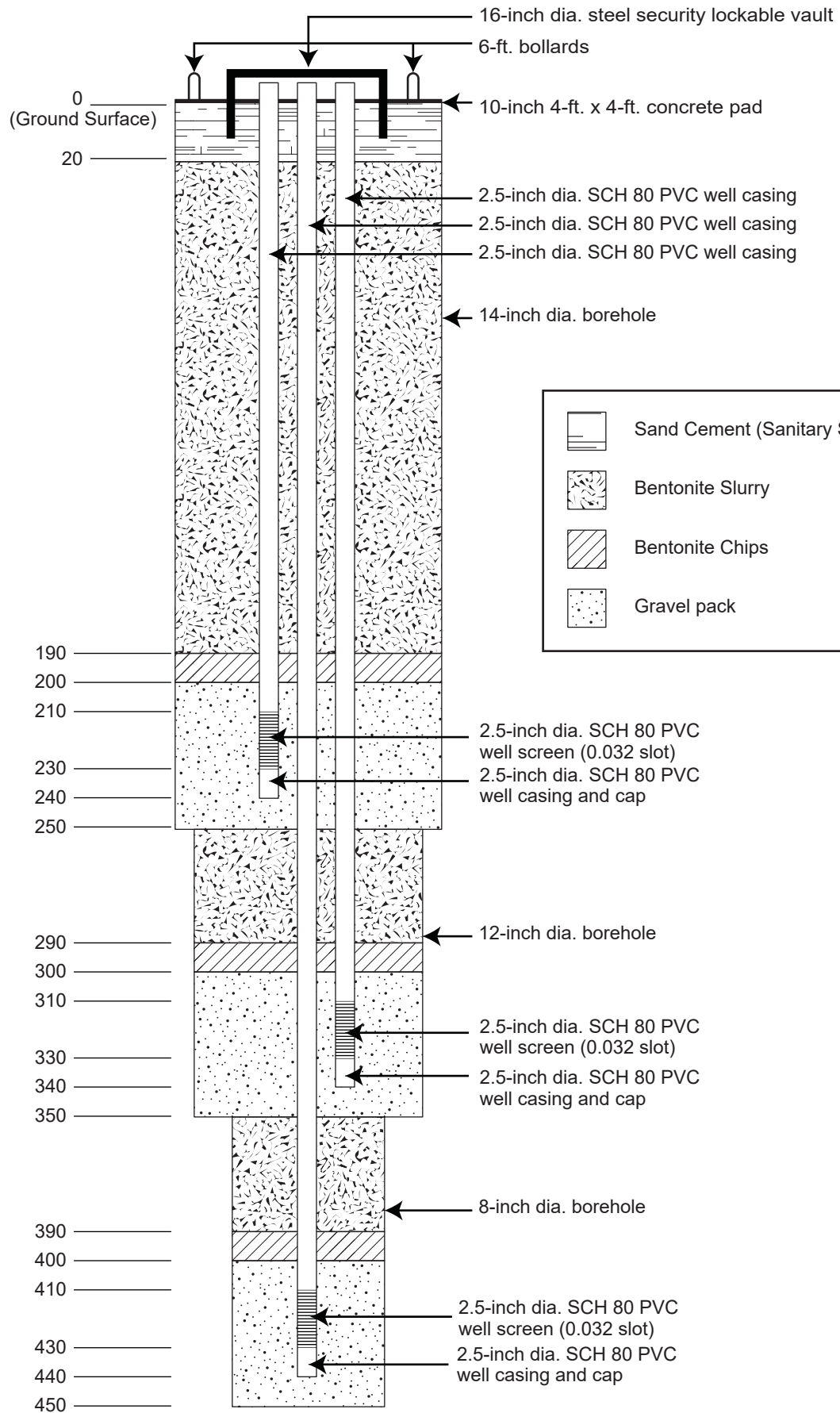
ASR Monitoring Well Construction

Nested Monitoring Well
Construction Details
McAnally

March 2020

Figure 14

Depth Below Ground Surface (feet)



Typical Monitoring Well Design
City of Roseville

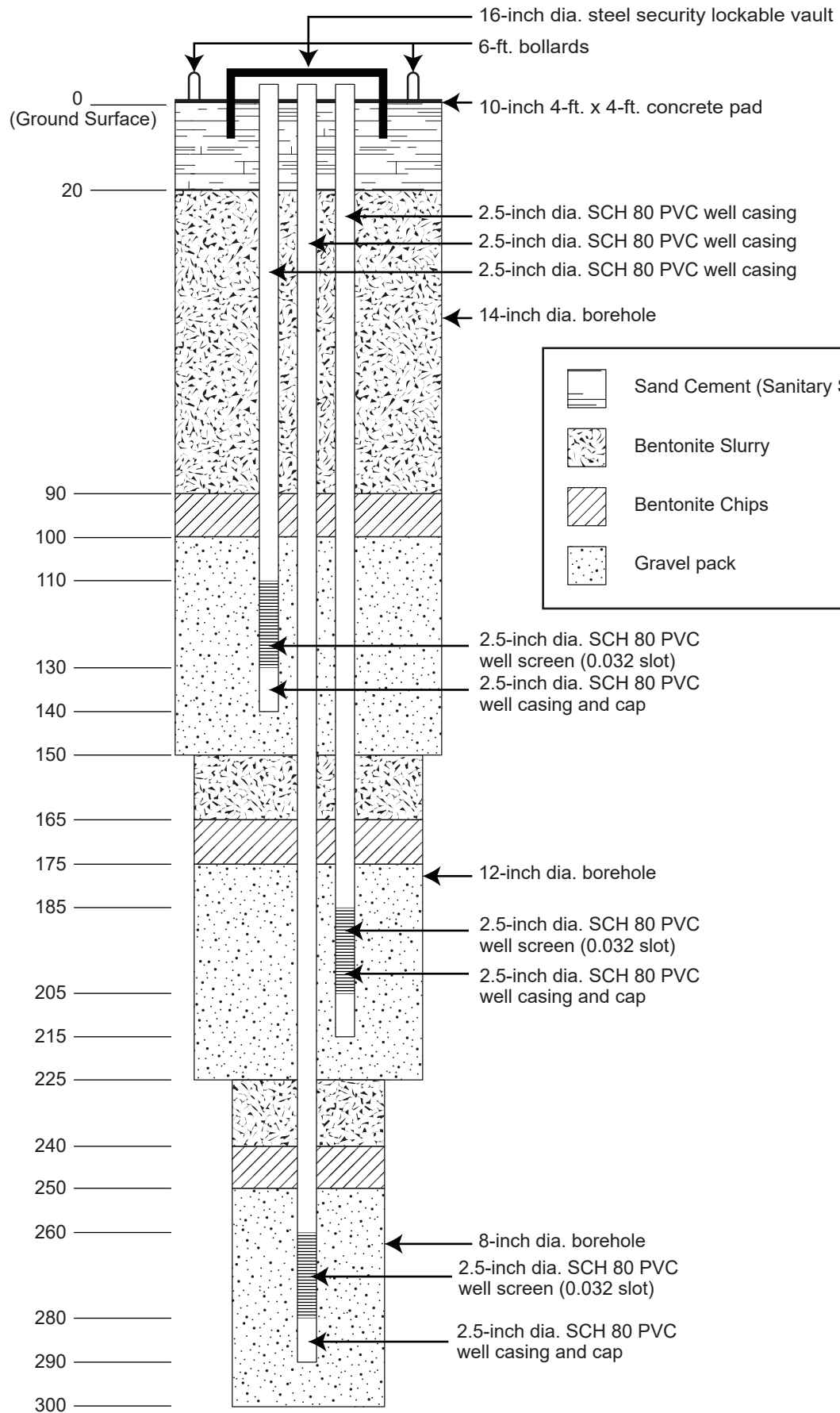
ASR Monitoring Well Construction

Nested Monitoring Well
Construction Details
Maidu

March 2020

Figure 15

Depth Below Ground Surface (feet)



NOTE: NOT TO SCALE

Typical Monitoring Well Design
City of Roseville

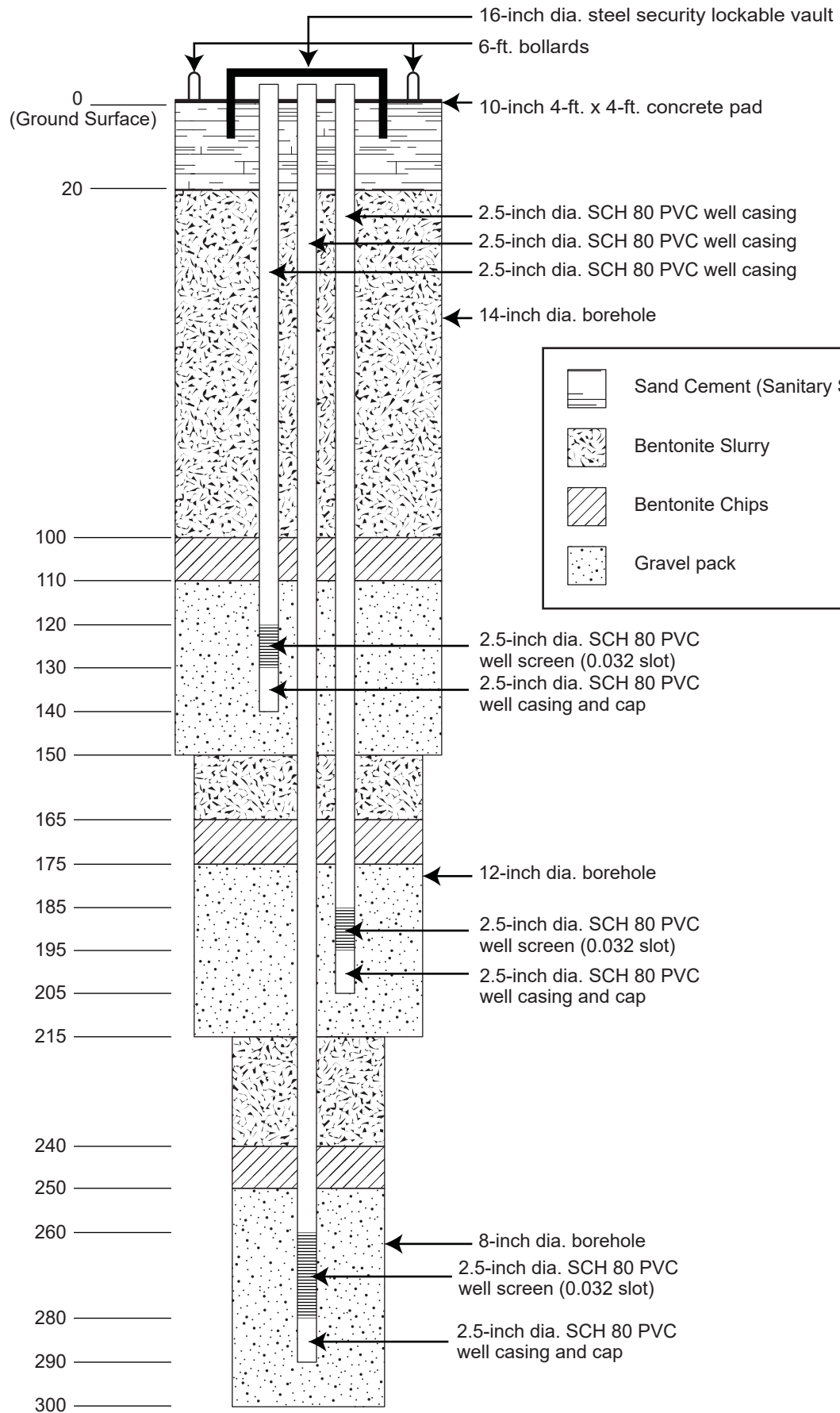
ASR Monitoring Well Construction

Nested Monitoring Well
Construction Details
Central Park

March 2020

Figure 16

Depth Below Ground Surface (feet)



NOTE: NOT TO SCALE

Typical Monitoring Well Design
City of Roseville

ASR Monitoring Well Construction

Nested Monitoring Well
Construction Details
Vencil Brown

March 2020

Figure 17

Table 1: Monitoring Well Details

	Well Site	Monitoring Well Name	8" Diameter Borehole Depth (feet)	Sanitary Seal Depth (feet bgs)	14" Diameter Ream (feet)	12" Diameter Ream (feet)	8" Diameter Ream /Borehole Cleanout (feet)	Screen Interval (feet bgs)	Total Monitoring Well Depth (feet)
Primary Well Sites	Pleasant Grove	PGMW-A	650	20	200			160-180	190
		PGMW-B				300		460-480	490
		PGMW-C					100	560-580	590
	Campus Oaks	COMW-A	550	20	150			110-130	140
		COMW-B				250		360-380	390
		COMW-C					100	460-480	490
	Galilee	GAMW-A	500	20	150			110-130	140
		GAMW-B				150		260-280	290
		GAMW-C					150	410-430	440
	Marlin	MLMW-A	450	20	250			210-230	240
		MLMW-B				50		260-280	290
		MLMW-C					100	360-380	390
	McAnally	MCMW-A	650	20	200			160-180	190
		MCMW-B				200		360-380	390
		MCMW-C					200	560-580	590
	Maidu	MAMW-A	500	20	250			210-230	240
		MAMW-B				100		310-330	340
		MAMW-C					100	410-430	440
Back-up Well Sites	Central Park*	CPMW-A	350	20	150			110-130	140
		CPMW-B				75		185-205	215
		CPMW-C					75	260-280	290
	Vencil Brown*	VBMW-A	350	20	150			110-130	140
		VBMW-B				75		185-205	215
		VBMW-C					75	260-280	290
Total for 8 Well Sites:			4000	160	1500	1200	900	480 (feet)	7560

*Optional well sites are included for the basis of cost estimating and budgeting, but may or may not be drilled for the completion of the project.



COUNCIL COMMUNICATION

CC #: 0751
File #: 0800-03

Title: Utility Tree Trimming Services – Contract Purchase Agreement
Contact: Jeff Beaubier 916-774-5611 jbeaubier@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.3.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt a resolution authorizing the City Manager to execute a contract purchase agreement with West Coast Arborists, Inc. (WCA) to perform Utility Tree Trimming services for three years, with an option to renew two additional one-year periods.

Funding for the first year of the agreement is \$1,378,125 and is included in the proposed Electric FY2020-21 budget and all future funding shall be contingent upon budget approval each year.

BACKGROUND

Roseville Electric is subject to State-required compliance mandates, and construction and maintenance requirements for high voltage electric line clearance trimming. The California Public Utilities Commission (CPUC) General Order 95, Rule 35 Vegetation Management, requires electric utilities to have an active high voltage tree trimming program to maintain the minimum clearance requirements for distances of trees or vegetation from energized lines.

Roseville Electric solicited proposals through Request For Proposals No. 07-076 Utility Tree Trimming seeking a vendor to assist with meeting the State-mandated tree trimming requirements. One vendor proposal was received and evaluated based on qualifications of firm and team, project understanding and plan, cost, and experience and references. The evaluation team reviewed and scored the proposal, finding WCA, Inc. qualified across all evaluation criteria, and selected WCA to provide the requested scope of services.

FISCAL IMPACT

The first year of the three-year agreement will cost \$1,378,125 and will be included in the proposed Electric Department FY2020-21 budget. FY2021-22 will cost \$1,433,250 and FY2022-23 of the agreement will cost \$1,488,375. The total cost of the agreement will not exceed \$4,299,750 over an initial three year period Should the two optional one-year renewals be

executed, FY2023-24 costs shall not exceed \$1,543,500 and FY2024-25 costs shall not exceed \$1,598,625. All future funding shall be contingent upon budget approval each year.

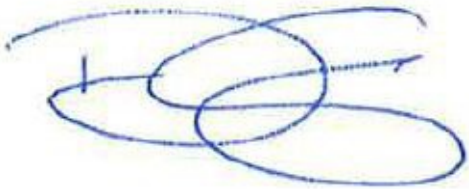
ENVIRONMENTAL REVIEW

The proposed project involves minor alteration in the condition of the land, water, and or vegetation which will not remove healthy, mature scenic trees. The project is limited to tree trimming for power line clearance and does not include tree removal, therefore this activity is categorically exempt from CEQA as a Class 4 Exemption (State CEQA Guidelines Section 15304). The Exemption has been prepared and no further CEQA action is required.

Respectfully Submitted,

Jeff Beaubier, Electric Operations Supervisor

Michelle Bertolino, Electric Utility Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-165

Contract Purchase Agreement

Scoresheet

RESOLUTION NO. 20-165

APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND WEST COAST ARBORISTS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a contract purchase agreement (3000262) for utility tree trimming services, between the City of Roseville and West Coast Arborists, Inc., has been reviewed by the Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said contract purchase agreement is approved and the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute two (2) additional one (1) year renewals without further City Council approval, provided that the applicable budget is approved by the City Council each year, and upon receipt and approval of bonds by the City Attorney's office each year.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 2020, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



Contract Purchase Agreement 3000262

Supplier Details:

Company West Coast Arborists Inc
Contact
Address 2200 E. Via Burton Street

Anaheim, CA 92806

Submit your response to:

Company City of Roseville
Contact Babette Owens
Address Purchasing Division
2075 Hilltop Circle
Roseville, CA 95747
Phone (916) 774-5704
Fax (916) 774-5736
E-mail BOwens@roseville.ca.us

This Contract Purchase Agreement is sent for your review and acceptance. Notify the Buyer via email of any needed changes to the company name, address, and contact information. The Buyer will update the agreement prior to you signing the document.

Return signed copies of the agreement to the Buyer noted on the agreement. Alterations or modifications to the agreement are not allowed. Upon receipt of all necessary documents, the City will sign the agreement and return a fully executed copy to you. Receipt of the signed copy will be your notice to proceed with the work in accordance with the terms and conditions of the agreement. Work must not begin until the contract has been fully executed.

The following guidelines must be followed for the signature block on the agreement:

Sole proprietorship - By owner

Partnership - Any general partner

Corporation - Two options:

(1) A signature from the President and the corporate seal; OR

(2) One signature from the Chairman of the Board, President, or any Vice President AND one signature from the Secretary, any Assistant Secretary, Chief Financial Officer, or any Treasurer or Assistant Treasurer of the corporation

***General Manager, Office Manager and/or Sales Manager are not corporate officer titles.** The agreement will be rejected if not signed in accordance with these guidelines.

Insurance requirements:

The City's insurance requirements are referenced on Attachment A of the agreement. By signing the agreement, you are confirming that your company has the minimum insurance limits required.



Contract Purchase Agreement 3000262

Agreement	3000262
Agreement Date	31-MAR-2020
Revision	0
Agreement Amount	4,299,750.00 USD

Invoice To **City of Roseville**
Accounts Payable
311 Vernon St
ROSEVILLE CA 95678

Phone: (916) 774-5488

Fax: (916) 784-3796

Email: accounts payable@roseville.ca.us

Supplier **West Coast Arborists Inc**
 2200 E. Via Burton Street

Anaheim, CA 92806

Phone: ()

Fax: ()

Email: vgonzalez@wcainc.com

Description of Labor, equipment and/or materials THE SERVICES CALLED FOR UNDER CITY OF ROSEVILLE REQUEST FOR PROPOSAL #07-067 AND CONTRACTOR'S PROPOSAL THERETO TITLED UTILITY TREE TRIMMING SERVICES #07-067 DATED 2/21/2020 (HEREINAFTER "PROPOSAL"). THE TERMS AND SCOPE OF WORK OF CITY OF ROSEVILLE REQUEST FOR PROPOSAL #07-067, CONTRACTOR'S PROPOSAL, AND THE ATTACHED "ATTACHMENT H - REVISED 3/17/2020" ARE HEREIN MADE PART OF THIS CONTRACT PURCHASE AGREEMENT AND FULLY INCORPORATED BY REFERENCE.

CONTACT JEFF BEAUBIER AT (916) 774 5611 OR JBEAUBIER@ROSEVILLE.CA.US FOR QUESTIONS REGARDING THIS AGREEMENT.

The total cost of service is an approximate value only. The City cannot guarantee whatsoever the actual value of this contract.

Customer #	Supplier #	Payment Terms	Freight Terms	FOB	Shipping Method
	11428	Net 30	Freight on Board at the destination	Destination	Best Method
Start Date	End Date	Confirm To			
01-Jul-2020	30-Jun-2023	Babette Owens Phone 1-916-774-5704			

Attention: Total Cost not to exceed the agreement amount without prior approval of the Purchasing office.

Contract Terms and Conditions

1. To the fullest extent allowed by law, Contractor shall defend, indemnify, and save and hold harmless City, its officers, agents, employees and volunteers from any claims, suits or actions of every name, kind and description brought forth, or on account of, injuries to or death of any person (including but not limited to workers and the public), or damage to property, resulting from or arising out of Contractor's willful misconduct or negligent act or omission while engaged in the performance of obligations or exercise of rights created by this Agreement, except those matters arising from City's sole negligence or willful misconduct. The parties intend that this provision shall be broadly construed. Contractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.
2. Contractor is an independent contractor, and shall not be considered an officer, agent or employee of the City.
3. Without the written consent of the City, this Agreement is not assignable by Contractor either in whole or in part.
4. Time is of the essence of this Agreement.
5. At any time during the term of this Agreement, the City has the right to terminate this Agreement, provided Contractor is given thirty (30) days written notice. City's termination shall be without further liability to City; however, Contractor shall be entitled to all costs reasonably incurred prior to the date of termination. Contractor acknowledges that City may terminate this Agreement should funds not be appropriated by its governing body to continue services under this Agreement.
6. This Agreement may only be amended or modified in writing. It is integrated and contains the complete understanding of the parties.
7. All equipment, supplies and services sold to the City of Roseville shall conform to the general safety orders of the State of California.
8. Unless notified to the contrary, in writing, the City assumes that the Contractor has accepted the work in accordance with the plans and specifications (if any) and agrees to do the work in compliance with this Agreement.
9. All fair employment practices must be adhered to. In addition, if the project referenced on this service agreement is a Public Works project, all prevailing wage laws must be complied with. For prevailing wage contracts over \$25,000, copies of certified payroll must be submitted with invoices. Prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>.
10. Contractor agrees to the below insurance requirements:
 - a. Unless otherwise specified, the Contractor shall maintain the policies of insurance outlined in Attachment A, incorporated herein by this reference, in full force and effect during the term of this Agreement. The City of Roseville retains sole discretion in determining the types and proper levels of insurance coverage.

- b. Form. Contractor shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney.
- c. Additional Insureds. Contractor shall also provide a separate endorsement or section of the policy showing City, its officers, agents, employees, and volunteers as additional insureds for each type of coverage, except for Workers' Compensation. Such insurance shall specifically cover the contractual liability of Contractor. The additional insured coverage under the Contractor's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from City's insurance or self-insurance. In addition, the additional insured coverage shall be at least as broad as the Insurance Services Office (ISO) CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be:
 - (1) the minimum coverage and limits specified in this Agreement; or
 - (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.
- d. Cancellation/Modification. Contractor shall provide ten (10) days written notice to City prior to cancellation or modification of any insurance required by this Agreement.
- e. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of City (if agreed to in a written contract) before City's own insurance shall be called upon to protect it as a named insured.
- f. Subcontractors. Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Agreement, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor's work. Furthermore, Contractor shall require its subcontractors to agree to be bound to Contractor and City in the same manner and to the same extent as Contractor is bound to City under this Agreement. Additionally, Contractor shall obligate its subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request.
- g. Self-Insured Retentions. All self-insured retentions (SIR) must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.
- h. Waiver of Subrogation. Contractor hereby agrees to waive subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General Liability and Automobile Liability policies shall be endorsed with a waiver of

subrogation in favor of City, its officers, agents, employees and volunteers for all work performed by Contractor, its employees, agents and subcontractors.

- i. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve Contractor of liability in excess of such coverage, nor shall it preclude City from taking such other actions as are available to it under any other provisions of this Agreement or law.
11. Contractor shall comply with all federal, state and local laws and ordinances, including but not limited to the City's storm water regulations, as may be applicable to the performance of services under this Agreement. Failure to comply with local ordinances may result in monetary fines and cancellation of this Agreement. Refer to www.roseville.ca.us/stormwater for links to more information on the City's storm water regulations.
12. In the event that the terms of any attachment or exhibit conflict with any terms of this Agreement, the terms of this Agreement shall control.
13. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a ".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original hereof.
14. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorneys' fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. This Agreement shall be governed by and construed in accordance with the laws of the State of California.
15. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.
16. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.
17. For purposes of this Agreement, the terms "Contractor," "Consultant," and "Supplier" are used interchangeably.
18. If the project referenced on this agreement is a Public Works project, then the following shall apply: No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this agreement, Contractor and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
19. If the project referenced on this agreement is a Public Works project, then the following shall apply: Contractor must submit all claims as defined in and in accordance with the claim resolution process set forth in Section 9204 of the Public Contract Code. Each such claim must be sent to the City by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the claim. All claims must be received prior to acceptance of the work.

Contract Purchase Agreement 3000262

Contractor agrees to defend and indemnify City if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that Contractor and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of City. Contractor and City agree that: (a) Contractor is free from the control and direction of City in connection with the performance of the work; (b) Contractor is providing services directly to City; (c) Contractor has and will maintain at all relevant times a business license; (d) Contractor maintains a business location that is separate from City; (e) Contractor is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) Contractor actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from City; (g) Contractor advertises and holds itself out to the public as available to provide the same or similar services; (h) Contractor provides its own tools, vehicles, and equipment to perform the services; (i) Contractor has negotiated its own rates; (j) Contractor set its own hours and location of work in accomplishing City's on-call needs; and (k) Contractor has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.

The supplier named hereon by the acceptance of this order agrees to the provisions of this document titled "Contract Purchase Agreement" and all accompanying terms, conditions, and attachments.

Roseville Business License No. 00815686

Contractor License No. 366764

DIR Registration No. 1000000956

Check mark the applicable company type below:

☒ Corporation

☐ Limited Liability Company

☐ Partnership

☐ Sole Proprietor

*City Reserves the right to withhold any payments to contractor in the event of noncompliance with insurance requirements or if required by law.
General T&C
REV 6/23/20 JS*

**ATTACHMENT A
HUMAN RESOURCES/RISK MANAGEMENT DIVISION
INSURANCE REQUIREMENTS
AGREEMENT OVER FORMAL BID LIMIT OR INVOLVING HIGH RISK ACTIVITIES**

General - Required Coverage/Documentation

- General Liability: \$1 Million per occurrence /\$2 Million aggregate
- Automobile Liability: \$1 Million combined single limit
- Workers' Compensation: Statutory *Must provide a Waiver of subrogation
- Additional Insured Endorsement (AIE) - General Liability policy: CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsement shall cover the City of Roseville, its officers, agents, employees and volunteers as additional insured.
- Policies must be primary and non-contributory
- A 30 day notice of cancellation must be provided
- List certificate holder as: The City of Roseville - Insurance Compliance, PO Box 100085-R1, Duluth, GA 30096

Additional Liability/Insurance Requirements if required by Agreement (and marked below):

Construction: _____

General Liability:
\$2 Million/occurrence
\$4 Million aggregate

Design Professional: _____

General Liability:
\$2 Million/occurrence
\$4 Million aggregate
Professional Liability:
\$2 Million/occurrence

Professional Consultant: _____

Professional Liability:
\$1 Million/occurrence

IT Services: _____

Professional Liability:
\$1 Million/occurrence
No auto required

Hazardous Materials: _____

Pollution Liability:
\$1 Million/occurrence

Special Events/Caterers-Vendors: _____

No auto required
No workers' comp required

Professional Counseling/ Psychological: _____

Professional Liability:
\$1 Million/occurrence
No auto required

Pyrotechnics: _____

General Liability:
\$5 Million/occurrence
\$10 Million aggregate
Auto - \$2 Million/occurrence

Contract Purchase Agreement 3000262

Chemical/Environmental:_____

General Liability:

\$3 Million/occurrence

\$6 Million aggregate

Pollution – \$2 Million/Occurrence

Auto - \$2 Million/Occurrence

Insurance Submission Process

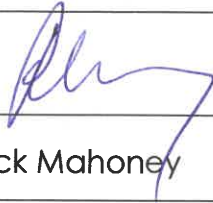
The City of Roseville Human Resources/Risk Management Department uses a service called EBIX to manage our insurance certificate tracking.

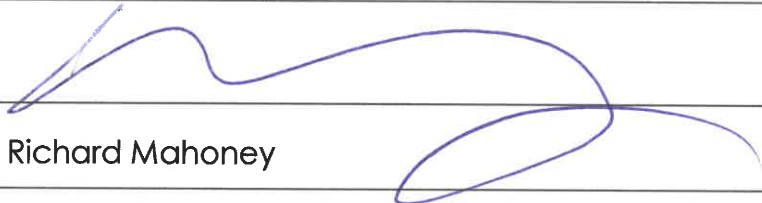
How It Works

- The vendor's contact information is entered into EBIX. EBIX will contact the vendor to request proof of insurance.
- The Vendor can forward the request to their Insurance Agent(s) if necessary.
- Vendor/Insurance Agent submits insurance to EBIX by email to roseville@ebix.com or by fax to (770) 325-5727. After faxing or emailing the certificate, please DO NOT send the certificate by mail to EBIX. Please do not mail, email or fax any certificates to the City of Roseville.
- Once submitted, EBIX reviews the insurance documentation. If there are deficiencies, EBIX will send a follow up letter or email requesting additional information.

Questions Regarding Insurance Submission: Contact EBIX at (951) 652-4239

Questions Regarding Insurance Requirements Contact Risk Management at (916) 774-5202

Supplier	
Signature:	
Print Name:	Patrick Mahoney
Title:	President

Supplier	
Signature:	
Print Name:	Richard Mahoney
Title:	Secretary

City of Roseville, A Municipal Corporation	
Signature:	
Print Name:	Dominick Casey
Title:	City Manager

Attachment H

Proposed Rate Sheet for RFP 07-067 Utility Tree Trimming Services

Populate the below tables with proposed regular hourly rates for labor and equipment by fiscal year. All rates shall be inclusive of tools, supplies, administrative, and overhead expenses. Additional proposed rates for equipment not listed by the City, but anticipated by the Contractor, shall be added by the Contractor. Space is provided below and Contractor may attach additional sheets if needed.

Regular Hourly Rates for:	2020/2021	2021/2022	2022/2023	*2023/2024	*2024/2025
Crew Leader (Foreman)	\$ <u>125.00</u> /hr	\$ <u>130.00</u> /hr	\$ <u>135.00</u> /hr	\$ <u>140.00</u> /hr	\$ <u>145.00</u> /hr
Patrolman/Inspector (Foreman)	\$ <u>125.00</u> /hr	\$ <u>130.00</u> /hr	\$ <u>135.00</u> /hr	\$ <u>140.00</u> /hr	\$ <u>145.00</u> /hr
Certified Line Clearance Tree Trimmer	\$ <u>125.00</u> /hr	\$ <u>130.00</u> /hr	\$ <u>135.00</u> /hr	\$ <u>140.00</u> /hr	\$ <u>145.00</u> /hr

Overtime charge is 25 % times regular hourly rate.

Equipment Hourly Rates for:	2020/2021	2021/2022	2022/2023	*2023/2024	*2024/2025
Aerial Boom w/ Dump	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr
Chipper	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr
Patrol Vehicle	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr	\$ <u>0.00</u> /hr
Other Equipment: Crane	\$ <u>125.00</u> /hr	\$ <u>130.00</u> /hr	\$ <u>135.00</u> /hr	\$ <u>140.00</u> /hr	\$ <u>145.00</u> /hr
Other Equipment: Roll off or Loader	\$ <u>125.00</u> /hr	\$ <u>130.00</u> /hr	\$ <u>135.00</u> /hr	\$ <u>140.00</u> /hr	\$ <u>145.00</u> /hr

Based on the bid cost information above, provide your total annual cost for:

- One (1) crew leader (foreman) \$125.00
- One (1) patrolman/inspector (foreman) \$125.00
- Three (3) certified line clearance tree trimmers \$375.00
- One (1) combination aerial lift dump truck with insulated boom containing incidental power and hand tools \$0.00
- One (1) chipper \$0.00
- One (1) patrol vehicle with tools \$0.00

Base total cost using a full year of **2080 regular hours** and **100 hours of overtime** between 12am and 6am. Total rate for each year shall be Contractor proposed rate multiplied by 2080 hours, plus the overtime figure. Initial award shall be for a three (3) year contract period. *Two one-year optional renewal years are contingent upon satisfactory performance and all terms, conditions, and prices remain the same as initial agreement. Optional renewal years are additionally contingent upon budget approval and at the discretion of the Electric Operations Manager or designee.

	2020/2021	2021/2022	2022/2023		*2023/2024	*2024/2025
TOTAL ANNUAL BID COST BY YEAR	\$ 1,378,125.00	\$ 1,433,250.00	\$ 1,488,375.00	TOTAL ANNUAL BID COST BY OPTIONAL YEAR	\$1,543,500.00	\$1,598,625.00

Attachment H
Proposed Rate Sheet for RFP 07-067 Utility Tree Trimming Services

- Should there be a need to obtain permits such as Encroachment Permits or Traffic Control Plans, WCA will pass the actual cost to the City of Roseville under this contract.
- Should there be a need to dispose of diseased or pest-infested trees/logs that require special handling and/or disposal fees, WCA will pass the actual cost to the City of Roseville under this contract.
- The cost for specialty equipment (Crane or Roll-off or Loader,) should the need arise, is for the equipment use only. The operator will be charged additionally, at the employee hourly rate of \$125.00 FY20-21, \$130.00 FY21-22, \$135.00 FY22-23, \$140.00 FY23-24, and \$145.00 FY24-25.
- Trees that are deemed as hazardous material and/or require extraordinary fees to dispose or handle, WCA will pass the actual cost to the City of Roseville under this contract.



COUNCIL COMMUNICATION

CC #: 0740

File #: 0900-03 & 0201-01

Title: Compressed Natural Gas Fueling Station Upgrade Phase 1 – Contract Purchase Agreement and Budget Adjustment

Contact: Janice R. Gainey 916-774-5535 jrgainey@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.4.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council:

1. Adopt a resolution to approve a Service Agreement with EFS West, Inc. (EFS) for Phase 1 of the Compressed Natural Gas Fueling Station Upgrade Project (Project No. 500095) in the amount of \$225,665.00, authorize the City Manager to execute it, and authorize the Environmental Utilities (EU) Director or his designee to approve and pay for contract change orders for this project that could increase the contract amount by no more than 10% (\$22,567.00) for a not-to-exceed total contract amount of \$248,232.00.
2. Adopt an ordinance approving the attached budget adjustment that will transfer \$288,232.00 from the Waste Services Annual Rehabilitation budget in the Waste Services Rehabilitation Fund to a newly created CIP in the same fund.

BACKGROUND

The City of Roseville has had alternative fueled vehicles (AFV) in its fleet since 1997. The AFV mix includes hybrids, electric, and Compressed Natural Gas (CNG) vehicles. The City funded and constructed a small fast-fill and time-fill CNG fueling station in 1997 at the Corporation Yard and has operated and maintained the station for its transit and municipal vehicles since then.

The City is currently in the planning phases of construction of a new fast-fill Renewable Natural Gas (RNG) fuel station at the Pleasant Grove Wastewater Treatment Plant. When constructed, this will be the primary fueling infrastructure for the Waste Collection fleet.

The City plans to upgrade and maintain the current fueling infrastructure to provide reliability by having two fuel sources in the event the primary fueling station experiences any system failure.

On November 22, 2019, a Request for Proposals was issued for a Condition Assessment, Upgrade and Maintenance Plan of the Corporate Yard CNG Fueling Station.

On January 24, 2020, one proposal was received. The proposal was evaluated by an EU Proposal Evaluation Committee and determined that the proposal was responsible and responsive; however, Phase 2-Major Systems Upgrades and Phase 3-Maintenance Plan Agreement would be considered optional tasks to be executed only after the Condition Assessment and initial critical upgrades have been completed.

Based upon the findings of the Condition Assessment, staff may submit a separate request to the City Council for additional support from EFS West for Phase 2 and Phase 3 support services.

This project supports the City's Strategic Plan Goal F - Invest in Well-Planned Infrastructure and Growth by reinvesting in aging infrastructure.

FISCAL IMPACT

The planned costs for the CNG Fueling Station Upgrades project are \$288,232 (\$225,665 for the services agreement with EFS West, \$22,567 for a ten percent contingency, and \$40,000 for staff time charged to the project). This budget adjustment transfers \$288,232 from already-appropriated funds in the Waste Services Annual Rehabilitation budget to a new Compressed Natural Gas (CNG) Fueling Station Upgrade project (500095), with no net effect on the available resources in that fund. The budget adjustment provides an increase in the available resources of the EU operating funds (Water: \$18,000, Wastewater: \$18,000, Waste Services: \$4,000) due to EU Technical Services staff charging their time to the project.

ENVIRONMENTAL REVIEW

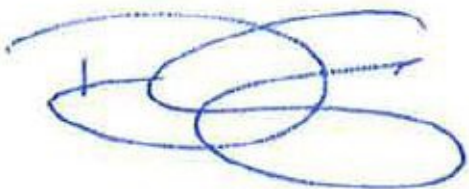
The California Environmental Quality Act (CEQA) only applies to projects which have the potential to cause a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. (CEQA Guidelines §15061(b)(3)).

This is a Service Agreement contract, and the criteria above apply, therefore no additional environmental review is required.

Respectfully Submitted,

Janice R. Gainey, Senior Engineer

Richard D. Plecker, Environmental Utilities Director

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, positioned above a solid horizontal line.

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-129

EFS Service Agreement

Ordinance No. 6215

CNG Budget Adjustment

Request for Proposal

RESOLUTION NO. 20-129

APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF
ROSEVILLE AND EFS WEST, AND AUTHORIZING THE CITY MANAGER TO
EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a contract purchase agreement (3000274) for the Compressed Natural Gas (CNG) Fueling Station Upgrade project, between the City of Roseville and EFS West, has been reviewed by the City Council;

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said contract purchase agreement is approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 2020, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



Contract Purchase Agreement 3000274

Supplier Details:

Company EFS West
Contact Jay Persaud
Address 28472 Constellation Road

Valencia, CA 91355

Submit your response to:

Company City of Roseville
Contact Babette Owens
Address Purchasing Division
2075 Hilltop Circle
Roseville, CA 95747

Phone (916) 774-5704
Fax (916) 774-5736
E-mail BOwens@roseville.ca.us

This Contract Purchase Agreement is sent for your review and acceptance. Notify the Buyer via email of any needed changes to the company name, address, and contact information. The Buyer will update the agreement prior to you signing the document.

Return signed copies of the agreement to the Buyer noted on the agreement. Alterations or modifications to the agreement are not allowed. Upon receipt of all necessary documents, the City will sign the agreement and return a fully executed copy to you. Receipt of the signed copy will be your notice to proceed with the work in accordance with the terms and conditions of the agreement. Work must not begin until the contract has been fully executed.

The following guidelines must be followed for the signature block on the agreement:

Sole proprietorship - **By owner**

Partnership - **Any general partner**

Corporation - **Two options:**

(1) A signature from the President and the corporate seal; **OR**

(2) One signature from the Chairman of the Board, President, or any Vice President **AND** one signature from the Secretary, any Assistant Secretary, Chief Financial Officer, or any Treasurer or Assistant Treasurer of the corporation

*General Manager, Office Manager and/or Sales Manager are not corporate officer titles. The agreement will be rejected if not signed in accordance with these guidelines.

Insurance requirements:

The City's insurance requirements are referenced on Attachment A of the agreement. By signing the agreement, you are confirming that your company has the minimum insurance limits required.



Contract Purchase Agreement 3000274

Agreement	3000274
Agreement Date	08-APR-2020
Revision	0
Agreement Amount	225,665.00 USD

Invoice To **City of Roseville**
Accounts Payable
311 Vernon St
ROSEVILLE CA 95678

Phone: (916) 774-5488

Fax: (916) 784-3796

Email: accountspayable@roseville.ca.us

Supplier EFS West
 28472 Constellation Road

Valencia, CA 91355

Phone: (661) 705-8200

Fax: (661) 7759623

Email: info@efswest.com

Description of Labor, equipment and/or materials THE SERVICES CALLED FOR UNDER CITY OF ROSEVILLE REQUEST FOR PROPOSAL #08-059 AND CONTRACTOR'S PROPOSAL THERETO TITLED EXHIBIT A - SCOPE OF WORK FOR THE CITY OF ROSEVILLE; COMPRESSED NATURAL GAS FUELING STATION UPGRADE AND MAINTENANCE PLAN PHASE 1, PHASE 2, AND PHASE 3 DATED MARCH 20, 2020 (HEREINAFTER "PROPOSAL"). THE TERMS AND SCOPE OF WORK OF CITY OF ROSEVILLE REQUEST FOR PROPOSAL #08-059 AND CONTRACTOR'S PROPOSAL ARE HEREIN MADE PART OF THIS SERVICE AGREEMENT AND FULLY INCORPORATED BY REFERENCE.

PLEASE CONTACT JANICE GAINNEY AT (916) 774-5535 OR
 JGAINNEY@ROSEVILLE.CA.US FOR QUESTIONS REGARDING THIS AGREEMENT.

START DATE: EXECUTED AGREEMENT
 END DATE: UPON FINAL PAYMENT

The total cost of service is an approximate value only. The City cannot guarantee whatsoever the actual value of this contract.

Customer #	Supplier #	Payment Terms	Freight Terms	FOB	Shipping Method
	14433	Net 30	Freight on Board at the destination	Destination	Best Method
Start Date	End Date	Confirm To			
Babette Owens Phone 1-916-774-5704					

Attention: Total Cost not to exceed the agreement amount without prior approval of the Purchasing office.

Contract Terms and Conditions

1. To the fullest extent allowed by law, Contractor shall defend, indemnify, and save and hold harmless the City, its officers, agents, employees and volunteers from any claims, suits or actions of every name, kind and description brought forth, or on account of, injuries to or death of any person (including but not limited to workers and the public), or damage to property, resulting from or arising out of Contractor's willful misconduct or negligent act or omission while engaged in the performance of obligations or exercise of rights created by this Agreement, except those matters arising from City's sole or active negligence or willful misconduct. The parties intend that this provision shall be broadly construed. Contractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.
2. Contractor is an independent contractor, and shall not be considered an officer, agent or employee of the City.
3. Without the written consent of the City, this Agreement is not assignable by Contractor either in whole or in part.
4. Time is of the essence of this Agreement.
5. At any time during the term of this Agreement, the City has the right to terminate this Agreement, provided Contractor is given thirty (30) days written notice. City's termination shall be without further liability to City; however, Contractor shall be entitled to all costs reasonably incurred prior to the date of termination. Contractor acknowledges that City may terminate this Agreement should funds not be appropriated by its governing body to continue services under this Agreement.
6. This Agreement may only be amended or modified in writing. It is integrated and contains the complete understanding of the parties.
7. All equipment, supplies and services sold to the City of Roseville shall conform to the general safety orders of the State of California.
8. Unless notified to the contrary, in writing, the City assumes that the Contractor has accepted the work in accordance with the plans and specifications (if any) and agrees to do the work in compliance with this Agreement.
9. All prevailing wages and fair employment practices must be adhered to. For prevailing wage contracts over \$25,000, copies of certified payroll must be submitted with invoices. Prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address:
<http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>.
10. Contractor agrees to the below insurance requirements:
 - a. Unless otherwise specified, the Contractor shall maintain the policies of insurance outlined in Attachment A, incorporated herein by this reference, in full force and effect during the term of this Agreement. The City of Roseville retains sole discretion in determining the types and proper levels of insurance coverage.

- b. Form. Contractor shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney.
- c. Additional Insureds. Contractor shall also provide a separate endorsement or section of the policy showing City, its officers, agents, employees, and volunteers as additional insureds for each type of coverage (except Workers' Compensation) and for ongoing and completed operations. Such insurance shall specifically cover the contractual liability of Contractor. The additional insured coverage under the Contractor's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from City's insurance or self-insurance. In addition, the additional insured coverage shall be at least as broad as the Insurance Services Office (ISO) CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be:
 - (1) the minimum coverage and limits specified in this Agreement; or
 - (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.
- d. Cancellation/Modification. Contractor shall provide ten (10) days written notice to City prior to cancellation or modification of any insurance required by this Agreement.
- e. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of City (if agreed to in a written contract) before City's own insurance shall be called upon to protect it as a named insured.
- f. Subcontractors. Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Agreement, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor's work. Furthermore, Contractor shall require its subcontractors to agree to be bound to Contractor and City in the same manner and to the same extent as Contractor is bound to City under this Agreement. Additionally, Contractor shall obligate its subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request.
- g. Self-Insured Retentions. All self-insured retentions (SIR) must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.
- h. Waiver of Subrogation. Contractor hereby agrees to waive subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General

Liability and Automobile Liability policies shall be endorsed with a waiver of subrogation in favor of City, its officers, agents, employees and volunteers for all work performed by Contractor, its employees, agents and subcontractors.

- i. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve Contractor of liability in excess of such coverage, nor shall it preclude City from taking such other actions as are available to it under any other provisions of this Agreement or law.
11. Contractor shall comply with all federal, state and local laws and ordinances, including but not limited to the City's storm water regulations, as may be applicable to the performance of services under this Agreement. Failure to comply with local ordinances may result in monetary fines and cancellation of this Agreement. Refer to www.roseville.ca.us/stormwater for links to more information on the City's storm water regulations.
12. In the event that the terms of any attachment or exhibit conflict with any terms of this Agreement, the terms of this Agreement shall control.
13. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a ".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original thereof.
14. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorneys' fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. This Agreement shall be governed by and construed in accordance with the laws of the State of California.
15. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.
16. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.
17. For purposes of this Agreement, the terms "Contractor," "Consultant," and "Supplier" are used interchangeably.
18. No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this agreement, Contractor and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
19. Contractor must submit all claims as defined in and in accordance with the claim resolution process set forth in Section 9204 of the Public Contract Code. Each such claim must be sent to the City by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the claim. All claims must be received prior to acceptance of the work.

20. Contractor agrees to defend and indemnify City if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that Contractor and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of City. Contractor and City agree that: (a) Contractor is free from the control and direction of City in connection with the performance of the work; (b) Contractor is providing services directly to City; (c) Contractor has and will maintain at all relevant times a business license; (d) Contractor maintains a business location that is separate from City; (e) Contractor is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) Contractor actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from City; (g) Contractor advertises and holds itself out to the public as available to provide the same or similar services; (h) Contractor provides its own tools, vehicles, and equipment to perform the services; (i) Contractor has negotiated its own rates; (j) Contractor set its own hours and location of work in accomplishing City's on-call needs; and (k) Contractor has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.

The supplier named hereon by the acceptance of this order agrees to the provisions of this document titled "Contract Purchase Agreement" and all accompanying terms, conditions, and attachments.

Roseville Business License No. 00840261

Contractor License No. CA #826003 (A, B, C10)

DIR Registration No. 1000011646

Check mark the applicable company type below:

 X Corporation

 Limited Liability Company

 Partnership

 Sole Proprietor

City Reserves the right to withhold any payments to contractor in the event of noncompliance with insurance requirements or if required by law.

*Construction T&C
REV 5/3/18 JS*

**ATTACHMENT A
HUMAN RESOURCES/RISK MANAGEMENT DIVISION
INSURANCE REQUIREMENTS
AGREEMENT OVER FORMAL BID LIMIT OR INVOLVING HIGH RISK ACTIVITIES**

General - Required Coverage/Documentation

- General Liability: \$1 Million per occurrence /\$2 Million aggregate
- Automobile Liability: \$1 Million combined single limit
- Workers' Compensation: Statutory *Must provide a Waiver of subrogation
- Additional Insured Endorsement (AIE) - General Liability policy: CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsement shall cover the City of Roseville, its officers, agents, employees and volunteers as additional insured.
- Policies must be primary and non-contributory
- A 30 day notice of cancellation must be provided
- List certificate holder as: The City of Roseville - Insurance Compliance, PO Box 100085-R1, Duluth, GA 30096

Additional Liability/Insurance Requirements if required by Agreement (and marked below):

Construction:____
General Liability:
\$2 Million/occurrence
\$4 Million aggregate

Design Professional: X
General Liability:
\$2 Million/occurrence
\$4 Million aggregate
Professional Liability:
\$2 Million/occurrence

Professional Consultant:____
Professional Liability:
\$1 Million/occurrence

IT Services:____
Professional Liability:
\$1 Million/occurrence
No auto required

Hazardous Materials:____
Pollution Liability:
\$1 Million/occurrence

Special Events/Caterers-Vendors:____
No auto required
No workers' comp required

Professional Counseling/ Psychological:____
Professional Liability:
\$1 Million/occurrence
No auto required

Pyrotechnics: _____
General Liability:
\$5 Million/occurrence
\$10 Million aggregate
Auto - \$2 Million/occurrence

Chemical/Environmental: _____
General Liability:
\$3 Million/occurrence
\$6 Million aggregate
Pollution – \$2 Million/Occurrence
Auto - \$2 Million/Occurrence

Insurance Submission Process

The City of Roseville Human Resources/Risk Management Department uses a service called EBIX to manage our insurance certificate tracking.

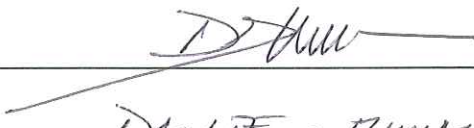
How It Works

- The vendor's contact information is entered into EBIX. EBIX will contact the vendor to request proof of insurance.
- The Vendor can forward the request to their Insurance Agent(s) if necessary.
- Vendor/Insurance Agent submits insurance to EBIX by email to roseville@ebix.com or by fax to (770) 325-5727. After faxing or emailing the certificate, please DO NOT send the certificate by mail to EBIX. Please do not mail, email or fax any certificates to the City of Roseville.
- Once submitted, EBIX reviews the insurance documentation. If there are deficiencies, EBIX will send a follow up letter or email requesting additional information.

Questions Regarding Insurance Submission: Contact EBIX at (951) 652-4239

Questions Regarding Insurance Requirements Contact Risk Management at (916) 774-5202

Supplier	
Signature:	
Print Name:	ART BABCOCK
Title:	PRESIDENT

Supplier	
Signature:	
Print Name:	DANTE JUMANAN
Title:	V.P.

City of Roseville, A Municipal Corporation	
Signature:	
Print Name:	Dominick Casey
Title:	City Manager



PLANNING • DESIGN • CONSTRUCTION

28472 Constellation Rd, Valencia, CA 91355

March 20, 2020

City of Roseville
Attn: City Clerk
Department 311 Vernon
Street
Roseville, CA 95678

Subject: EXHIBIT A - Scope of Work for the City of Roseville; Compressed Natural Gas Fueling Station Upgrade and Maintenance Plan Phase 1, Phase 2 and Phase 3

EFS WEST will provide the following work to be performed as detailed below for the Compressed Natural Gas Fueling Station Upgrade for the City of Roseville. EFS West agrees to provide appropriately licensed contracting, and/or engineering services as needed pursuant to the Service Agreement in addition to all labor, tools, equipment, and materials, and transportation required to complete the services outlined in this RFP. A price breakdown as well as preliminary schedule are included as attachments to this scope of work.

TECHNICAL REQUIREMENTS:

EFS WEST agrees to comply with all federal, state, and local safety regulations and all applicable Cal-OSHA requirements. The project design, installation and maintenance shall conform at a minimum to the following applicable codes and standards:

- NFPA 52 Vehicular Fuel Systems Code, Chapter 8 CNG Compression, Gas Processing, Storage, and Dispensing Systems, General requirements for compressed natural gas (CNG) compression, gas processing, storage, and dispensing systems
- NFPA 52 Vehicular Fuel Systems Code, 8.4 System Siting Requirements for system setback distances
- NFPA 52 Vehicular Fuel Systems Code, Table 8.4.2.9 Electrical Installations, Requirements for classified areas
- Natural Gas Vehicle (NGV) 2 Natural Gas Vehicle Containers
 - o Set of standards that address component testing for certification purposes for natural gas vehicle fueling infrastructure and vehicle tanks
- NGV 1 Compressed NGV Fueling Connection Devices
 - o Set of standards that address component testing for certification purposes for natural gas vehicle fueling infrastructure and vehicle tanks
- NGV 3.1 Fuel System Components for Natural Gas Powered Vehicles
 - o Certification document for fuel system components
- NGV 4.1 Dispensing Systems Certification document for fuel systems

- NGV 4.2 Hoses for Natural Gas Vehicles (NGV) and Dispensing Systems
 - o Certification document for fueling hoses
- NGV 4.3 Temperature Compensation
 - o Devices for Natural Gas Dispensing Systems Standard to address fueling parameters required to achieve defined state-of-charge
- NGV 4.4 Breakaway Devices for Natural Gas Dispensing Hoses and Systems
 - o Certification document for dispenser hoses
- NGV 4.5 (draft) Priority and Sequencing
 - o Equipment for Natural Gas Dispensing Systems Document in development that sets procedures for fueling operations
- NGV 4.6 Manually Operated Valves for Natural Gas Dispensing Systems
 - o Certification document for dispensing system valves
- NGV 4.7 (draft) Automatic Valves for Use in Natural Gas Vehicle Fueling Stations Certification document for fuel system compressors
- NGV 4.8 Natural Gas Fueling Station Reciprocating Compressor Guidelines Pressure Relief Devices -1 for NGV Fuel Container Certification document for fueling compressors
- ASME B31.3 Process Piping Process design piping standard
- C-6 Standards for Visual Inspection of Steel Compressed Gas Cylinders
- Inspection standard to complement design standard
- S-1.1 Pressure Relief Device Standards -
 - o Part 1- Cylinders for Compressed Gases S-1.3 Pressure Relief Device Standards -
 - o Part 3 - Stationary Storage Containers for Compressed Gases and Pressure relief for different container configurations

SCOPE OF WORK:

Phase 1 – Assessment, Design, and Repair/Upgrade of CNG Fueling Station Facilities

1.1 Project management

EFS West will provide overall project management to ensure all tasks are fully completed, within the allocated budget and timeframe. This task includes all costs for mobilization, demobilization, bonds, insurance, permits (at a minimum a City Business Permit is required), and other administrative requirements including but not limited to; travel, accommodations, preparation for and participation in meetings, submittal of payment requests, technical submittals, development and maintenance of progress schedules.

1.2 Condition Assessment and Analysis

EFS West will conduct a condition and reliability assessment of the CNG fueling station facilities. Assessment will include all system components and field testing as necessary to determine remaining useful life. Provide a Technical Memorandum summarizing the assessment methodology, findings, and alternatives/options for equipment repair or replacement, cost estimates and revised service life for each identified option, and recommendations for City's facilities.

An outline of major system components to be included in the Technical Memorandum (but not limited to these items) is as follows. Site maps as included in the Request for Proposals.

- Site 1a: Storage vessels, supply line configuration, priority sequencing cabinet, dome-loaded regulator panel, and all PRV's and bleed valves associated with fuel storage.

Site 1b: Compressor skid, compressors, existing coalescing gas filter/dryer system (Xebec), blowdown tank, associated PRV's for gas supply, and compressor PRV piping system.

- Site 3: All electrical conduits, compressor control system, entire Emergency Shutdown System (ESD) system, paddle switches, power supply conductors and 480 station feeder panel.
- Site 1-4: Confirm adequacy of supply line sizing between compression skid to fuel dispensing stations.
- Site 4: Analyze condition of the time-fill fueling stations; nozzles, controls, and appurtenances.
- Filter Banks: Engineering analysis of the potential need for additional Coalescing Filter Bank and if so, appropriate location, sizing, and appurtenances that will be required.
- E-Stop System Analysis: Analyze existing emergency stop system for safety, ease of access, and integration with existing, and potential future facilities.
- Painting and Corrosion Protection: Analyze and recommend appropriate painting and corrosion protection for each area of the CNG facilities.
- Other Sites: All appurtenances related to the CNG Fueling Station.
- Testing of the CNG Fueling system as a whole including:
 - performance evaluation of the compressors by EFS West and a manufacturer's rep,
 - observation of the fueling process to estimate compressor flow rate,
 - leak testing of the piping systems,
 - testing of all ESD devices and circuits,
 - Evaluating the condition of the existing equipment from current maintenance records and recommendations from the equipment manufacturers.

Deliverables:

- a. Technical Memorandum – CNG Fueling Station Condition Assessment

Assumptions:

- a. This scope of work allows for 160 man-hours of senior staff to conduct the Condition Assessment. These man-hours will be used to develop a work plan/test protocols and to perform the inspections and testing detailed in the work plan.
- b. The cost also includes allowances for participation by manufacturers reps for

the equipment and compressors, as well as engineering time for development of permitable plans for repairs/improvements identified during the assessment work, as requested in the RFP.

- c. The work plan will be reviewed and approved by Roseville staff prior to performing the onsite assessment. Once EFS West and Roseville have agreed on the inspections and tests to be performed, the actual field inspection work will be performed.
- d. Following completion of the inspections and tests, EFS West will prepare the Technical Memorandum called for in the RFP addressing the items listed.

1.3 Facility Upgrades and Modifications

EFS West will provide the engineering design, equipment, and installation for the following upgrades and modifications to the CNG fueling station.

- 1.3.1. **Dome-Loaded Regulator Panel Upgrade (Site 1).** Remove the existing Dome Loaded Regulator Panel and install a new Priority Panel with temperature compensation. This work includes all required piping and electrical for an operating priority panel with temperature compensation.
- 1.3.2. **Hose Replacement at Time-fill Stations (Site 4).** Includes all labor, material and equipment to repair, or replace up to 12 existing Time Fill hoses and nozzles. Remove the twelve (12) fill/vent hoses from all Six (6) of the time-fill posts. New conductive fill/vent hoses should be furnished and installed to serve the anticipated fill demand. The hoses to be furnished shall be per the following specifications: Parker Parflex or approved equal. Fill nozzles shall be replaced as needed.
- 1.3.3. **Emergency Shutdown System Improvements (Site 3).** Includes all labor, material, and equipment to replace up to three existing ESD switches. Also, to test and evaluate the entire ESD system and make recommendations for national and local code compliance upgrades if needed.
- 1.3.4. **Fast Fill Dispenser Removal (Site 2).** Includes all labor, material, and equipment to remove the existing non-operational Fast Fill Dispenser. This includes capping the high pressure lines at the base of the dispenser and at the priority panel. Cutting the electrical conduits and conductors at the dispenser base and disconnecting the conductors at the breaker panel. Removing any communication cables that are connected.
- 1.3.5. **CNG Compressors (Optimize Operation) (Site 1).** Includes labor, material and equipment for EFS West and Atlas Copco to evaluate the current compressor PLC configurations and reconfigure the PLC for optimal performance including reconfiguring (by installing tubing as required) the new priority panel to a cascade system.
- 1.3.6. **As-built, Diagram and Drawings.** EFS West will provide a complete set of AS- BUILT drawings from information provided from the City of Roseville and as observed from the aboveground equipment configurations. It does not include any subsurface investigations for piping or electrical

routing.

- 1.3.7. **Truck Defueling Station.** Includes labor, material, and equipment required to install one defueling station vented to the atmosphere.

Deliverables:

- a. Design Submittals for each facility upgrade/modification; equipment, plans and technical specifications. Two submittals shall be provided to the City for review and comment prior to finalizing the submittals for the improvements.
- b. An updated flow schematic and Process and Instrumentation Diagram (PID) shall be included in the submittals.
- c. Labor, equipment and installation of all task 1.3 fueling station modifications.
- d. 1-year parts and labor warranty on all task 1.3 fueling station modifications.

Assumptions:

- a. EFS West costs assumes that we will be using the Priority panel and Defueling panel provided by Atlas Copco.
- b. Contract is a not-to-exceed budget, allocated as shown in attached cost proposal.

Phase 2 Optional Upgrades and Modifications

The City may choose to issue amendments to EFS West's scope of work to implement recommendations for fueling station modifications or equipment replacement as identified in Phase 1 of this scope of work. This optional phase is not a part of current scope of work and exercise of this option is at City's discretion with no obligation to EFS West.

Phase 3 Optional Facility Maintenance Agreement

The City may choose to enter into a maintenance service plan with EFS West for the routine inspection and service of the CNG fueling station including on-call repair services. This optional phase is not a part of current scope of work and exercise of this option is at City's discretion with no obligation to EFS West.

If you have any questions please do not hesitate to contact our office at (661-705-8264).

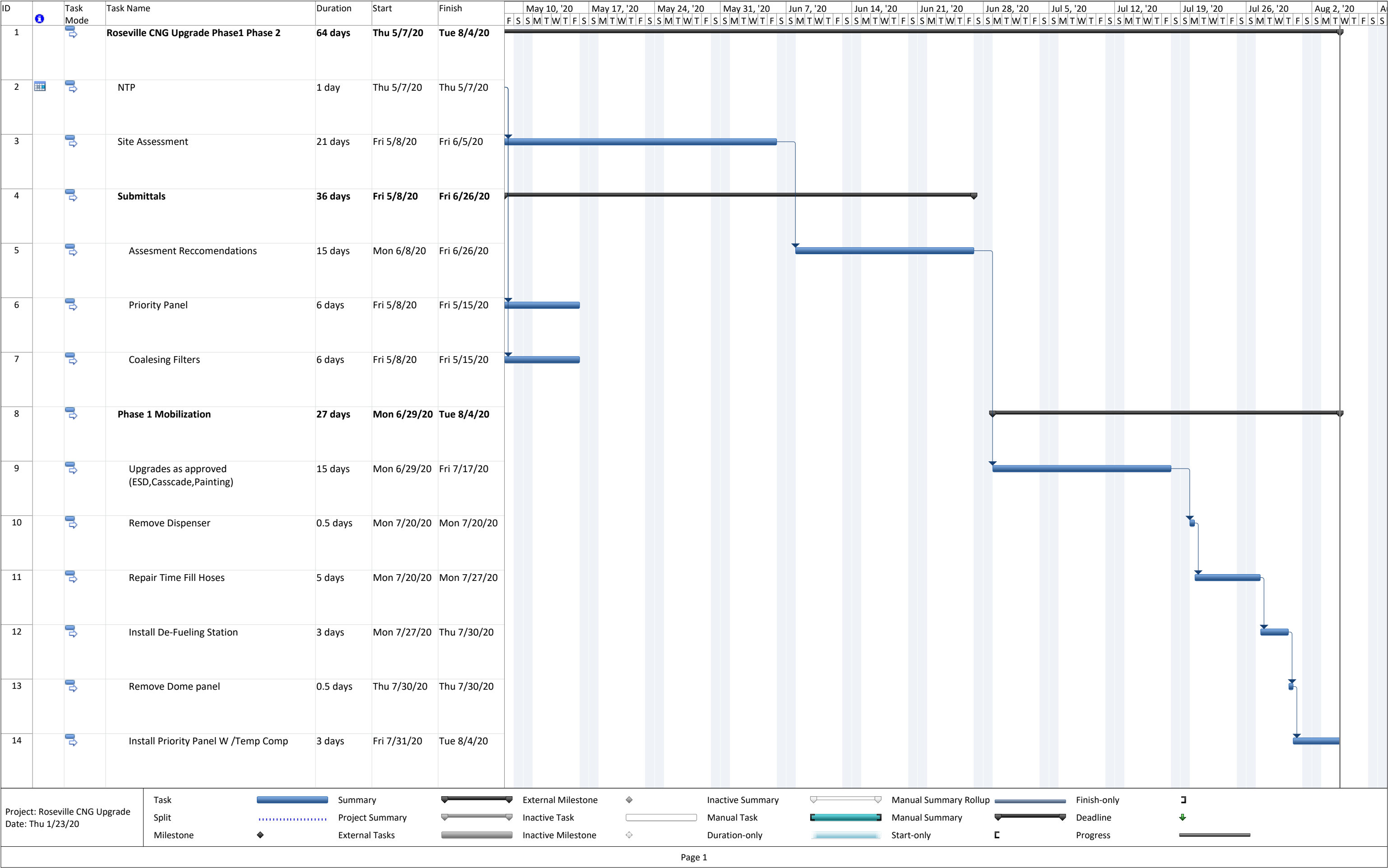
Sincerely,

Von Regli

Von Regli
EFS WEST SR. Division Manager

**EFS West
Inc. City of
Roseville
Cost
Proposal**

[illegible]



ORDINANCE NO. 6215

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20
BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY
EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2019-20, is hereby amended by transferring appropriation to and from the activities indicated below:

Appropriate funds for the Compressed Natural Gas (CNG) Fueling Station Upgrade project, per request of the Environmental Utilities Department, as listed on the attached Request for Budget Adjustment in the amount of \$40,000.

SECTION 2. This ordinance is hereby declared to be an appropriation measure, immediately effective pursuant to the provisions of Section 5.03 of the Charter.

SECTION 3. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the ordinance book, under the record of the ordinance, a certificate under her hand stating the time and place of such publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville, this
_____ day of _____, 2019, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITLE: Janice Gainey, Senior Engineer FISCAL YEAR: 2020
PREPARER NAME & TITLE: Nancy Rothlisberger, EU Rate Analyst COUNCIL DATE (if applicable): 5/6/2020
DEPARTMENT/DIVISION: EU/Technical Services ORDINANCE: _____

EXPENDITURES/EXPENSES/TRANSFERS OUT

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6330	6587	84001	500095	248,232	Service agreement (construction) and 10% contingency
6330	5080	84001	500095	40,000	Secondary labor - charged to project from EU Tech Services
6101	5980	74188	000000	(18,000)	Secondary labor - reimbursement (EU Tech Svcs/Water)
6201	5980	74388	000000	(18,000)	Secondary labor - reimbursement (EU Tech Svcs/Wastewater)
6301	5980	74288	000000	(4,000)	Secondary labor - reimbursement (EU Tech Svcs/Waste Services)
6330	6550	74260	000000	(288,232)	Reduce budget in Waste Services Annual Rehab
TOTAL				(40,000)	

REVENUES/TRANSFERS IN

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
TOTAL				-	

NET ADJUSTMENT	(40,000)
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FUND BALANCE

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6101				18,000	Increase available resources in Water Ops Fund
6201				18,000	Increase available resources in Wastewater Ops Fund
6301				4,000	Increase available resources in Waste Services Ops Fund
TOTAL				40,000	

Justification for Budget Adjustment:

The new Compressed Natural Gas (CNG) CNG Fueling Station Upgrade project (500095) improves the existing station to meet current code regulations and replace equipment past usable life. The total cost will be \$288,232 (\$248,232 for the service agreement and 10% contingency plus \$40,000 of secondary labor) and funds are available in the Waste Service Annual Rehab cost center (74260) so there is no net effect on the available resources in the Waste Services Rehabilitation Fund (6330). There is an increase in the available resources of the EU operating funds (Water: \$18,000, Wastewater: \$18,000, Waste Services: \$4,000) due to EU Tech Services staff charging their time to the project.

		REQUIRED APPROVALS:				Digitally signed by Scott Pettingell Date: 2020.04.10 13:34:15 -07'00'	
4/9/20							
REQUESTING DEPARTMENT HEAD / DESIGNEE		DATE		BUDGET MANAGER / DESIGNEE		DATE	
Dennis Kauffman		Digitally signed by Dennis Kauffman Date: 2020.04.10 13:53:26 -07'00'					
CHIEF FINANCIAL OFFICER / DESIGNEE		DATE		CITY MANAGER / DESIGNEE		DATE	
BUDGET DEPARTMENT USE ONLY:							
POSTED BY		DATE					

Revised: June 24, 2019



REQUEST FOR PROPOSALS

for

Compressed Natural Gas (CNG) Fueling Station Upgrade and
Maintenance Plan
Phase 1 and Phase 2

DUE: January 24, 2020

3:00 PM

Deliver to:

City of Roseville
Attn: City Clerk Department
311 Vernon Street
Roseville, CA 95678

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CITY OF ROSEVILLE

NOTICE FOR PROPOSALS

CNG Fueling Station Upgrade and Maintenance Plan Phase 1 and Phase 2

NOTICE IS HEREBY GIVEN that proposals for **Compressed Natural Gas (CNG) Fueling Station Upgrade and Maintenance Plan Phase 1 and Phase 2** will be received by the City of Roseville. Proposals will be accepted **ONLY** at the office of the **City Clerk, Civic Center, 311 Vernon Street, Roseville, CA, 95678, until 3:00 p.m., January 24, 2020**. Said proposals will be evaluated and results will be made public after completion of the negotiation process with the selected contractor. The City reserves the right to reject any or all proposals and to waive any informalities or irregularities in any proposal or in the proposal process.

11-22-2019

Date



Sen Y. Saetern

Assistant Engineer

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IMPORTANT!!!

The City is not responsible for misdelivered proposals, and the proposer is strictly liable for its chosen method of delivery. It is the proposer's sole responsibility to make sure that proposals arrive at the proper location. Any proposal which does not actually arrive in the City Clerk's Office by the RFP due date and time will be rejected as non-responsive, even if properly addressed or delivered to another City Department.

Your proposal **MUST** be addressed and delivered as follows:

**City of Roseville
Attn: City Clerk Department
311 Vernon Street
Roseville, CA 95678**

The proposer is also directed to include the attached "Sealed Proposal" label on the outside of the package or envelope so that it is visible when delivered to the City.

City of Roseville RFP
PREVAILING WAGE NOTIFICATION

This is a prevailing wage project. Accordingly, all prevailing wage and fair employment laws and regulations shall be adhered to. For prevailing wage contracts over \$25,000.00, copies of certified payroll must be submitted with invoices. Prevailing wage rates may be obtained from the Department of Industrial Relations and/or the following website address:

<http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>

City of Roseville RFP

DEPARTMENT OF INDUSTRIAL RELATIONS CONTRACTOR REGISTRATION NOTIFICATION

No contractor or subcontractor may be listed on a Proposal for or work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. The Contractor shall provide proof of current registration with the Department of Industrial Relations for both itself and all listed subcontractors with their Proposal. The Contractor is hereby notified that this Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

<https://www.dir.ca.gov/Public-Works/Contractor-Registration.html>

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CNG FUELING STATION UPGRADE AND MAINTENANCE PLAN

PHASE 1 AND PHASE 2

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1.0 INTRODUCTION

The City of Roseville (hereinafter “City”), is soliciting proposals for a Compressed Natural Gas (CNG) Fueling Station Upgrade and Maintenance Plan Phase 1 and Phase 2. This will be a competitive negotiation process. Qualified individuals, firms, contractors, consultants or entities (hereinafter “Contractor”), that meet the requirements set forth in this Request for Proposals (hereinafter “RFP”), and are capable of providing the services requested are encouraged to participate.

1.1 CITY OVERVIEW

The City of Roseville is an incorporated city with a population of more than 132,000 residents, located in Placer County off of Interstate 80, approximately 16 miles northeast of Sacramento, California. The City of Roseville is a Charter city operating under the City Council/City Manager form of government.

1.2 BACKGROUND

The City of Roseville has had alternative fueled vehicles (AFV) in its fleet since 1997. The AFV mix includes hybrids, electric, and CNG vehicles. The city funded and constructed a small fast-fill and time-fill CNG fueling station in 1997 and has operated and maintained the station for its transit and municipal vehicles. The City maintains its own CNG station using specialized craft resources from the Environmental Utilities Maintenance Division.

The City of Roseville’s CNG station was designed and constructed in two phases by Accel Project Systems, Inc. who provided all the design, permitting, equipment components, and installation. The latest phase added a second 50 scfm compressor, six more high-pressure storage vessels and ten time-fill posts were completed in 2003. The following summarizes the current use and condition of the CNG fueling station: Only the time-fill system is in operation at this time. The fast-fill dispenser is out of service.

A map and elevation of the existing stations is attached. See Attachment 7. A Process and Instrumentation Diagram of the facility is included. See Attachment 8.

1.2.1 - Existing Fueling Station Facilities

The following is a description of the current fueling station facilities.

Compressors

There are two 50 standard cubic feet per minute (scfm) CNG compressors (Compressors #1 and #2) both manufactured by Ingersoll Rand (IR). Each compressor operates for approximately 15-20 hours per month and have been overhauled once. Compressors #1 and #2 have accumulated 6,200 and 5,800 runtime hours, respectively, since their last overhaul.

Dryer

A gas dryer manufactured by Xebec, Inc. consisting of a single tower filled with 200 lbs of Desiccant is located upstream of the compressors. The pressure drop across the tower is reported by the City to be low. There have been no icing issues reported downstream of the dryer which indicates no or low moisture carryover. The desiccant inside the tower has not been replaced due to moisture content of the gas.

Storage Tanks

There are a total of nine storage tanks connected in a buffer configuration (i.e., all vessels are connected to each other). At the start of the evening's fill, the CNG in the vessels is sent to the vehicles followed by CNG directly from the compressors. After the vehicles are full, the compressors replenish the vessels for the next evening's fill.

Dome-Loaded Regulator Panel

The Dome-Loaded Regulator Panel contains a dome-load regulator to ensure overnight vehicle fills are ambient temperature compensated to 3,600 psig (i.e., equal to a settled fill of 3,600 psig at 70 degrees F). Stainless steel tubing is not plumb and is run in front of the regulator obstructing access. The City reports this panel has been unreliable for years.

Time-fill Posts and Hoses

A total of six dual hose fill posts (12 fill hoses) are located in the parking area designated for time-fill operations.

Fast-Fill Dispenser and Priority/Sequencing Control Valve Panel

The existing single fast-fill station is currently out of service. The City has determined that this fueling station and its priority/sequencing control valve panes are no longer needed and should be removed.

1.2.2 - Current and Future CNG Station Operation

The two CNG compressors can provide a total of approximately 43 diesel gallon equivalents (dge) per hour of CNG ($2 \times 50 \text{ scfm} \times 60 \text{ min/hour} / 139 \text{ scf/dge} = 43 \text{ dge/hour}$).

There are currently four (4) waste collection vehicles using approximately 35 dge/day while running 4.5 hours/day each. In the coming year the City plans to add four (4) additional vehicles using approximately the same 35 dge/day. The resulting demand will therefore be 280 dge/day and supplying this demand will require a both compressors to run approximately 7 hours per day.

Based on the current and projected modest fuel demands of the City's CNG vehicle fleet (i.e. 140 dge/day and 280 dge/day respectively), the CNG fueling station can supply this capacity.

Vehicles at the time-fill fueling stations are supplied CNG from the storage tanks first. Capacity of the storage tanks is roughly 70 dge of usable fuel when all of the vessels are full.

The amount of usable fuel within multiple storage tanks, in a buffer configuration, is roughly 10% of the total fuel stored since the storage tank's pressure drops during the fueling process as the pressure reaches equilibrium with the vehicle's fuel tank during fueling, so not all fuel can be used. This usable amount of CNG is not always sufficient to directly fill the vehicles and the compressors will come on to complete the fueling process directly. Once all vehicles are filled the compressors continue to run to replenish the storage tanks.

The City of Roseville is currently in the planning phases of construction of a new fast-fill Renewable Natural Gas (RNG) fuel station at its Wastewater Treatment Plant. This will be the primary fueling infrastructure for the Waste Collection fleet. The City would like to upgrade and maintain the current fueling infrastructure to provide reliability by having two fuel sources in the event of system failure.

1.3 INSTRUCTIONS TO PROPOSERS

This RFP includes a description of the scope of services, proposal requirements, and instructions for submitting your proposal. Failure to follow these instructions may result in rejection of your proposal.

No oral representations or interpretations will be made to any proposer as to the meaning of this RFP.

Direct all inquiries regarding this RFP in writing to: <https://www.publicpurchase.com>

City of Roseville
Environmental Utilities Department
Attn: Sen Saetern

Do not contact other individuals or City departments in this regard. Information provided by anyone other than the above contact may be invalid and proposals which are submitted in accordance with such information may be declared non-responsive.

In the event that it becomes necessary to revise any part of this RFP, written addenda will be issued. Any amendment to this RFP is valid only if it is in writing and issued by the City department issuing the RFP. No oral interpretations or answers shall bind the City unless confirmed by the City in writing.

All addenda for this RFP will be distributed through PublicPurchase.com to proposers who have registered with PublicPurchase.com and who have downloaded the RFP. Additionally, the Notice of Intent to Award will be posted on PublicPurchase.com. **It is the proposer's sole responsibility to monitor PublicPurchase.com for possible addenda to this RFP and for the Notice of Intent to Award.** Failure of proposer to retrieve addenda or the Notice of Intent to Award from PublicPurchase.com shall not relieve him/her of the requirements contained therein or the timelines associated therewith. Additionally, failure of proposer to return a signed addendum, when required, may be cause for rejection of his/her proposal.

2.0 TENTATIVE SCHEDULE

The following represents the tentative schedule for this RFP. Any change in the scheduled dates for the Pre-Proposal Job Walk/Conference, Deadline for Final Questions, or Proposal Submission Deadline will be advertised in the form of an addendum to this RFP. The schedule for the evaluation process and other future dates may be adjusted without notice.

Table 1: Project Milestone Schedule

Project Milestone	Date
RFP Released by the City	November 22, 2019
Mandatory Pre-Proposal Job Walk	December 17, 2019
Deadline for Final Questions	January 7, 2020
City Responses to Written Questions	January 15, 2020
Proposal Submission Deadline	January 24, 2020
Contractor Interviews as needed	February 25, 2020
Contract Negotiations	March 17, 2020
Contract Approval by City Council	May 6, 2020
Commencement of Services	May 7, 2020

3.0 MANDATORY PRE-PROPOSAL JOB WALK/CONFERENCE

A **mandatory** pre-proposal conference/job walk has been scheduled for Tuesday, December 17, 2019 at 1:00 pm at:

City of Roseville Corporation Yard
2005 Hilltop Circle
Roseville, CA 95747

Proposals from Contractors who do not attend the **mandatory** pre-proposal conference/job walk will be rejected. The pre-proposal conference/job walk will begin at the designated start time. **Tardiness will be grounds for disqualification.**

Interested firms will have an opportunity to submit questions regarding the requirements outlined in this RFP. In order to make the meeting more effective for all participants, attendees should read this document thoroughly prior to the meeting.

Substantial clarifications or changes required as a result of the meeting will be issued in the form of a written addendum to the RFP. A list of attendees will be distributed upon request.

4.0 TECHNICAL REQUIREMENTS

Contractor shall comply with all federal, state, and local safety regulations and all applicable Cal-OSHA requirements.

The Contractor shall also provide appropriately licensed contracting, and/or engineering services as needed pursuant to the Service Agreement in addition to all the labor, tools, equipment, and materials required to complete the services outlined in this RFP.

The project design, installation and maintenance shall conform at a minimum to the following applicable codes and standards

- NFPA 52 Vehicular Fuel Systems Code, Chapter 8 CNG Compression, Gas Processing, Storage, and Dispensing Systems, General requirements for compressed natural gas (CNG) compression, gas processing, storage, and dispensing systems
- NFPA 52 Vehicular Fuel Systems Code, 8.4 System Siting Requirements for system setback distances
- NFPA 52 Vehicular Fuel Systems Code, Table 8.4.2.9 Electrical Installations, Requirements for classified areas
- Natural Gas Vehicle (NGV) 2 Natural Gas Vehicle Containers
 - Set of standards that address component testing for certification purposes for natural gas vehicle fueling infrastructure and vehicle tanks
- NGV 1 Compressed NGV Fueling Connection Devices
 - Set of standards that address component testing for certification purposes for natural gas vehicle fueling infrastructure and vehicle tanks
- NGV 3.1 Fuel System Components for Natural Gas Powered Vehicles
 - Certification document for fuel system components
- NGV 4.1 Dispensing Systems Certification document for fuel systems
- NGV 4.2 Hoses for Natural Gas Vehicles (NGV) and Dispensing Systems
 - Certification document for fueling hoses
- NGV 4.3 Temperature Compensation
 - Devices for Natural Gas Dispensing Systems Standard to address fueling parameters required to achieve defined state-of-charge
- NGV 4.4 Breakaway Devices for Natural Gas Dispensing Hoses and Systems
 - Certification document for dispenser hoses
- NGV 4.5 (draft) Priority and Sequencing
 - Equipment for Natural Gas Dispensing Systems Document in development that sets procedures for fueling operations
- NGV 4.6 Manually Operated Valves for Natural Gas Dispensing Systems
 - Certification document for dispensing system valves
- NGV 4.7 (draft) Automatic Valves for Use in Natural Gas Vehicle Fueling Stations Certification document for fuel system compressors
- NGV 4.8 Natural Gas Fueling Station Reciprocating Compressor Guidelines Pressure Relief Devices -1 for NGV Fuel Container Certification document for fueling compressors
- ASME B31.3 Process Piping Process design piping standard
- C-6 Standards for Visual Inspection of Steel Compressed Gas Cylinders
- Inspection standard to complement design standard
- S-1.1 Pressure Relief Device Standards -
 - Part 1- Cylinders for Compressed Gases S-1.3 Pressure Relief Device Standards -
 - Part 3 - Stationary Storage Containers for Compressed Gases and Pressure relief for different container configurations

5.0 SCOPE OF SERVICES

The City of Roseville requires the Contractor to provide engineering design services, installation, labor, tools, equipment, materials and transportation required to perform the services necessary for completing the CNG Fueling Station Upgrade and Maintenance Plan Phases 1 and 2 per the scope defined in this RFP.

The work will be divided into two phases, with Phase 1 consisting of a condition assessment, analysis and development of upgrade recommendations, facilities upgrades that have been identified as immediately necessary, and development of a facilities maintenance plan including entering into a two-year facilities maintenance agreement with the City upon completion of the work.

Phase 2 will cover the optional modifications and upgrades identified in the condition assessment and tasks will be awarded individually, all together, or not at all depending on the findings of the condition assessment, recommendations, and City's goals.

The proposals will be evaluated based on Contractor's experience, qualifications, Project Understanding, Proposed Plan, and References.

PHASE 1 - ASSESSMENT, DESIGN, REPAIR/UPGRADE, AND MAINTENANCE OF THE CNG FILLING STATION

Contractor shall coordinate all onsite work with the City. Work that requires process/facility shutdowns shall be coordinated with a written access request to the City Project Manager a minimum of two (2) days in advance of the work. Contractor shall not begin work until access requests are approved in writing.

TASK 1.1 - PROJECT MANAGEMENT

Provide overall project management to ensure all tasks are fully completed, within the allocated budget and timeframe. The Contractor shall be responsible for mobilization, demobilization, bonds, insurance, permits (at a minimum a City Business Permit is required), and other associated work under this task. The Contractor shall provide overall project management to keep the project on schedule and within budget, participate in meetings, submit payment requests, process technical submittals required in the tasks below, and develop a baseline and progress schedules.

TASK 1.2 – CONDITION ASSESSMENT AND ANALYSIS

Conduct a condition and reliability assessment of the CNG fueling station facilities. Assessment should include all system components and field testing as necessary to determine remaining useful life. Provide a Technical Memorandum summarizing the assessment methodology, findings, and best alternatives/options for equipment repair or replacement. Include a timeline, and cost estimate for each rehabilitation/replacement option on a Time and Material basis. An

outline of major system components to include in the Technical Memorandum (but not limited to these items) is as follows.

- Site 1a: Storage vessels, supply line configuration, priority sequencing cabinet, dome-loaded regulator panel, and all PRV's and bleed valves associated with fuel storage.
- Site 1b: Compressor skid, compressors, existing coalescing gas filter/dryer system (Xebec), blowdown tank, associated PRV's for gas supply, and compressor PRV piping system.
- Site 3: All electrical conduits, compressor control system, entire Emergency Shutdown System (ESD) system, paddle switches, power supply conductors and 480 station feeder panel.
- Site 1-4: Confirm adequacy of supply line sizing between compression skid to fuel dispensing stations.
- Site 4: Analyze condition of the time-fill fueling stations; nozzles, controls, and appurtenances.
- Filter Banks: Engineering analysis of the potential need for additional Coalescing Filter Bank and if so, appropriate location, sizing, and appurtenances that will be required.
- E-Stop System Analysis: Analyze existing emergency stop system for safety, ease of access, and integration with existing, and potential future facilities.
- Painting and Corrosion Protection: Analyze and recommend appropriate painting and corrosion protection for each area of the CNG facilities.
- Other Sites: All appurtenances related to the CNG Fueling Station.

TASK 1.3 - FACILITY UPGRADES & MODIFICATIONS

The Contractor shall provide the engineering design and installation for the following upgrades and modifications. For the purposes of estimating the contractor's efforts, the Contractor shall assume that two design submittals, (60% and 100% plans and specifications as applicable), shall be provided to the City for review and comment prior to finalizing the submittals for the improvements. An updated flow schematic and Process and Instrumentation Diagram (PID) shall be included in the submittals.

Task 1.3.1 – Dome-Loaded Regulator Panel Upgrade (Site 1)

Replace the dome-loaded regulator panel including stainless steel tubing and temperature compensation system. The proposal should provide a recommendation on the best alternative for the temperature compensation system.

Task 1.3.2 – Hose Replacement at Time-fill Stations (Site 4)

Remove the twelve (12) fill/vent hoses from all Six (6) of the time-fill posts. New conductive fill/vent hoses should be furnished and installed to serve the anticipated fill demand. The hoses to be furnished shall be per the following specifications: Parker Parflex or approved equal. Fill nozzles shall be replaced as needed.

Task 1.3.3 – Emergency Shutdown System Improvements (Site 3)

Install upgrades to the ESD (Emergency Shutdown System) identified in Task 1.2. See Attachment 9 for Location of Existing Emergency Stop Buttons.

Currently the ESD system only shuts down compressors under the following conditions:

- Manual Shutdown: Someone activates any of the ESD buttons at dispensers, east wall of car wash near fuel islands, or ESD mounted adjacent to entrance to CNG compressor skid.
- Auto Shutdown: Compressor's pressure reducing valves on both unit's 4 stages are each tied together so if any of the four compressor stages over pressurize it will shut down the faulty compressor.

Although compressors can be shut down either manually or automatically, there is currently no leak detection and no ESD for a leak. In the event of a leak between storage and dispensers, there is no ESD to stop the flow of gas to dispenser posts. One potential solution is the addition of a solenoid valve between storage and time-fill posts that is tied to the ESD system. This option should be included in the condition assessment's rehabilitation options together with other identified facilities upgrade recommendations for the ESD system. Confirm that the ESD meets the latest codes and describe the assumptions of any work to be performed in Tab E: Project Plan.

Task 1.3.4 – Fast Fill Dispenser Removal (Site 2)

Depressurize and isolate supply pipelines to the out-of-service fast-fill dispenser. Control valves feeding the fast-fill dispenser at the existing priority/sequencing valve panel near the compressor skid (Site 1) shall be closed and capped. Remove the unused fast fill dispenser system and associated above ground piping and appurtenances at fuel island. Minimize the amount of asphalt concrete disturbed during the removal process.

TASK 1.3.5 – CNG Compressors (Optimize Operation) (Site 1)

Provide an option for optimizing the run strategy and reduce the intermittent starting and stopping of the CNG compressors. Evaluate if a lead-lag system with compressors set to alternate would make sense. Each compressor might be set to run longer (and independently) with the goal of mitigating the risks of wear and tear on the compressors. The proposer shall develop an operational strategy, including a control strategy for accomplishing the modifications. Include a modified process schematic, identify the on-site improvements required, and outline the steps to achieve this goal.

TASK 1.3.6 – As-built, Diagram and Drawings

Contractor to prepare As-built drawings for the existing CNG Fueling Station including all upgrades on the different components. Include company logo on drawing, underground facility, plan view of facility, and details of various components that have been upgraded or modified. The Contractor shall keep the drawings up-to-date at all times during construction and upon completion of the project, submit their As-built drawings to the City with the Contractor's certification as to the accuracy of the information. All As-built drawings submitted shall be titled "AS-BUILT" above the title block and dated. Contractor shall provide three (3) drawings on D size (22 inches by 34 inches) used for construction of CNG fueling station. Contractor shall also provide one (1) electronic copy of the as-built in PDF and CAD on USB flash drive.

TASK 1.3.7 – Truck Defueling Station

Contractor to provide options and location for truck defueling station. Defueling is required whenever work on the CNG fuel tanks or non-isolated fuel system components is being performed within a major repair garage. Most commonly, defueling is performed using a defueling post or station. This device incorporates a hose and connections that allow the onboard tank to discharge through a vent to atmosphere or to a station with CNG fueling infrastructure. Defueling to a CNG station is preferred, as it enables the recapture of most of the defueled gas.

TASK 1.4 - FACILITY MAINTENANCE PLAN DEVELOPMENT

Develop an overall maintenance plan for the CNG fueling station facilities including a schedule of activities and a description of maintenance activities and frequency to ensure reliability and compliance are met. The City plans to enter into an Agreement with the successful proposer for a three (3) year routine maintenance contract for the CNG fueling station facilities with an option for extending the contract another two (2) years.

The following facilities and regularly scheduled tasks shall be included in the facility maintenance contract agreement.

- Site 1: Storage vessels, supply line, priority sequencing cabinet, and all PRVs and bleed valves associated with fuel storage, Dome-Loaded Regulator Panel. Compressor skid, compressors, gas filter/dryer system, blowdown tank, associated PRV's for gas supply, and compressor PRV piping system. Compressor control system.

Test pressure relief valves (PRV) annually. Section 541(a)(6) in Title 8 of the California Code of Regulations specifies all safety relief devices in CNG vehicular fueling systems shall be tested at least annually and maintained in proper operating condition. Describe testing procedures that will be utilized. Maintenance reports shall be provided to City staff. City currently owns spare Mercer and Crosby PRV's to rotate out annually for all storage vessels. City also owns one spare set of compressor PRV's to be alternated every three (3) years between compressors 1 and 2.

- Site 3: All electrical conduits, compressor control system, entire Emergency Shutdown System (ESD) system, paddle switches, power supply conductors and 480 station feeder panel.

- Site 4: Time fill posts and supply line from station to dispensers.

Hoses should be tested monthly for electrical continuity, pressure tested for leaks, and visually inspected for damage/wear. Please consult the tag with the manufacturer's product specific data on the new fill/vent hose for further maintenance details. CNG compressors, Xebec Molecular sieve dryer, elements, compressor controls, ESD system, blowdown tank, oil recovery tank. Describe testing procedures that will be utilized. Maintenance reports shall be provided to City staff.

- Other Sites: All appurtenances related to the CNG Fueling System.

PHASE 2 – OPTIONAL UPGRADES AND MODIFICATIONS

Phase 2 will incorporate optional modifications and upgrades to the CNG system outlined below. Contractor will develop options, recommendations and budgets for the Phase 2 work during the Phase 1 condition assessment. The project understanding (Tab D) and project plan (Tab E) should detail the approach, assumptions, and methodology that will be used to develop the condition assessment analysis and recommendations for Phase 2.

TASK 2.1 – CNG COMPRESSORS (SITE 1)

Based on the results of the condition assessment, this task may consist of rehabilitation of the CNG compressors. In the event that the Compressors cannot be rehabilitated to yield a long term reliable system, the City may select to replace the compressors entirely. This portion of the work, shall be up to the sole discretion of the City and shall be a determination made by the City, after the Phase1 tasks of this RFP have been completed and been in operation for 24 months.

This task may consist of replacing the current 50 scfm Ingersoll Rand compressors with either new compressors or an entirely new package skid at the same system pressure of 3600 psi. The Contractor shall provide the engineering and installation, for this upgrade. For the purposes of estimating the contractors efforts, the Contractor shall assume that two design submittals, (60% and 100% plans and specifications), shall be provided to the City for review and comment, prior to finalizing the submittals for the improvement's. An updated flow schematic and PID shall be included in the submittals.

TASK 2.2 – COALESCING FILTER BANK (NEAR SITE 4)

Based on the results of condition assessment this task includes design and installation of a new coalescing filter bank near time-fill fueling stations to increase protection due to compressor oil carryover. The coalescing filters shall be provided per the following specifications: Parker Finite Coalescing filters sized appropriately for full pressure drop demand potential of time fill dispensers. Filters shall include block and bleed valves (Swagelok) for oil capture tube system. Additionally filters shall be plumbed with isolation valves immediately up and downstream of housings for coalescing filter inspections.

TASK 2.3 – PAINTING AND CORROSION PROTECTION (SITE 1)

Based on the results of the condition assessment, and City’s approval, this task may consist of new coatings to provide protection from external corrosion of the steel piping and other appurtenances. Contractor should include a description of the methodology for development of recommendations (specifications for) the appropriate coating system and installation techniques required.

TASK 2.4 – CNG VENT OUTLET MODIFICATIONS (SITE 1)

Confirm that CNG vent outlets are at least ten (10) feet above finish grade in accordance with Section 541(b)(2) in Title 8 of the California Code of Regulations. It appears that some may not be at least ten (10) feet tall. Modify any CNG vents that do not comply with the minimum height requirement in Title 8. For the purposes of estimating the effort for this task, Contractor shall determine the number of PRVs to be modified and assume a minimum of two (2) PRVs will have to be modified to meet the code requirements and be cognizant that additional vents may be required.

6.0 PROPOSAL FORMAT REQUIREMENTS

Each response to this RFP shall include the information described in this section. Provide the information in the specified order. Failure to include all of the information specified may be cause for rejection. Additional information may be provided, but should be succinct and relevant to the goals of this RFP. Any additional information that a proposing Contractor wishes to include that is not specifically requested should be included in an appendix to the proposal.

Contractors are encouraged to keep the proposals brief and to the point, but sufficiently detailed to allow evaluation of the project approach. Excessive information will not be considered favorably. Unauthorized conditions, omissions, limitations or provisions attached to a proposal will render the proposal non-responsive and may cause its rejection.

Proposers are warned against making erasures or alterations of any kind, without initialing each and every such change. Proposals that contain erasures or irregularities of any kind, without such initialing, or omissions, may be rejected.

The proposal should be bound or contained in a loose leaf binder. Document pages shall be 8-1/2 inches by 11 inches in size or folded to such a size. Use section dividers, tabbed in accordance with this section as specified below.

6.1 PART 1 –TECHNICAL PROPOSAL

Part 1 of the Proposal must be sealed separately from Part 2 of the Proposal. Section 7 provides submittal instructions.

Cover Letter with the following information:

- Title of this RFP
- Name and Mailing Address of Firm (include physical location if mailing address is a PO Box)

- Contact Person, Telephone Number, Fax Number, and Email Address

TAB A: Firm's Qualifications (3 double sided pages maximum)

Describe your firm and provide a statement of your firm's qualifications for performing the requested services. Identify the services which would be completed by your firm's staff and those that would be provided by sub-consultants or sub-contractors, if any. Identify any sub-consultants or sub-contractors you propose to utilize to supplement your firm's staff. Include the firm's organizational chart, including its constituent parts, and size variation of staffing levels in the past five (5) years.

TAB B: Experience and References (2 double sided pages maximum)

Provide a summary of your firm's experience in providing these or similar services. Provide a minimum of three (3) references for projects or services similar in nature and scope that your firm's team members have completed in the last five (5) years. Include brief descriptions of the projects, dates, client names and contact persons' names, addresses and telephone numbers. Public sector references are preferred.

Contractors shall also demonstrate a minimum of five (5) years direct experience working on fuel pumps, compressors, and CNG filtration system. Such work experience must be direct, and the work must have been performed by the Contractors's own crews. The Contractor must have experience performing rehabilitation work on medium size or larger CNG facilities with total compressor capacity of 50 scfm or larger, or performed at least other jobs similar in size and scope to the work specified herein. Any work performed by subcontractors will not be considered direct contractor experience.

TAB C: Qualifications of Team (2 double sided pages maximum)

Provide a brief summary of the role, qualifications and experience of each team member and designated project manager/lead assigned to this project, including length of service with the firm and the qualifications/experience of any sub-consultant or sub-contractor staff on your project team. A project team organizational diagram and brief resume of each team member and the designated project manager/lead for each applicable category shall be included. The geographic location of the firm and key personnel shall also be identified. Any proposed sub-consultants or sub-contractors shall be listed in Attachment 3. Include subconsultant's and subcontractor's assigned task(s) and experience. Full resumes may be included in the appendix.

TAB D: Project Understanding (2 double sided pages maximum)

Based on the available information, supplemental research, field observations, and experience with similar projects, provide a narrative describing your understanding of the services requested in this RFP, your general approach and any major challenges to achieving the City's stated goals. Include any issues that you believe will require special consideration for this project. Also identify any unique approaches or strengths that your firm may have related to this project. City staff will assess your understanding of all aspects of the project based on the overview.

TAB E: Project Plan (8 double sided pages maximum)

Provide a detailed discussion of your firm's approach to the successful implementation of this project. Include thorough discussions of methodologies you believe are essential to accomplishing this project. Include a proposed work schedule to accomplish all of the required tasks within the desired timeline. Identify the staff who would be assigned to each task, including sub-consultants and sub-contractors. List any necessary equipment, training or installation services required.

As applicable, the Contractor shall provide clear and detailed descriptions of the approach and procedures that will be implemented in completing the scope of services. These procedures shall completely conform with the requirements laid out in Technical Requirements Section of this RFP.

TAB F: Required Statements/Documents

Include the following required statements and forms in Tab F.

- Executed copy of Proposer's Certification (Attachment 1)
- Contractor Licenses (Attachment 2)
- Subcontractor List (Attachment 3)
- Noncollusion Declaration (Attachment 5)
- Assurance of Designated Project Team (Attachment 11)
- No Conflict of Interest Declaration (Attachment 12)
- Proprietary Information Statement per Section 10.23 (Attachment 13)
- Provide a statement indicating your ability and agreement to fulfill the indemnification and insurance requirements contained in the sample contract (**Section 10.7**). Please note that actual certificates of insurance are not required as part of your submittal.

TAB G: Exceptions

Describe any and all proposed exceptions, alterations or amendments to the Scope of Services or other requirements of this RFP, including the Sample Contract (**Attachment 4**). The nature and scope of your proposed exceptions may negatively affect the evaluation of your submittal and the City's determination of whether it is possible to successfully negotiate a contract with your firm.

TAB H: Appendix

Include additional information and documents in this section as needed. May include, but not limited to:

- Resumes of key staff and Subcontractors. Page Limit: none.
- Miscellaneous attachments as needed.

6.2 PART 2 – COST PROPOSAL AND FINANCIAL INFORMATION

Part 2 of the Proposal must be sealed separately from Part 1 of the Proposal. Section 7 provides submittal instructions. Part 2 should contain the following items.

Cost Proposal

The Cost Proposal shall be provided in a table format that identifies the key project team member(s) proposed for each task and sub-task and the number of management, engineering, technical, drafting and support personnel hours and cost envisioned for each task. The hourly rate, name of team member and staff classification shall be included in the column headings of the spreadsheet. Define any reimbursable expenses requested to be paid by the City. Identify all other costs to be billed to the project including project expenses (no mark-ups on expenses will be allowed) and sub-consultant costs. Include any proposed mark-up for sub-consultant fees. Include a copy of the proposed rate schedule(s) to be used throughout the duration of the project including any adjustments which are predicted to occur during the life of the project. In order to facilitate the assessment of cost proposals, all proposals shall be formatted such that the tasks listed in the “Scope of Services” Section (Tasks 1.1 through 1.4), shall be utilized. Additional sub-tasks may be created in the cost proposals at the proposing firm’s discretion to provide additional definition of major activities to be accomplished.

Financial Data

The City wants to ensure that the successful Contractor has the necessary facilities, ability, experience, and financial resources to provide the services specified herein in a satisfactory and timely manner. Please list and explain any pending bankruptcies, liens, stop payment notices, judgments, lawsuits, arbitrations, mediations, foreclosures, and any similar actions filed or resolved in the past seven (7) years. Please indicate whether a client has ever terminated a contract with your firm for breach, and if so, please explain. Also, furnish a statement of financial resources demonstrating that the Contractor has the ability to maintain a staff of regular employees, sub-consultants or sub-contractors adequate to insure continuous performance of work, and demonstrating that the equipment for the work contemplated is sufficient, adequate and suitable.

Optional Confidential Envelope – Proprietary Information.

Optional “Confidential” Envelope. If a Proposer desires to claim a **privilege against public disclosure** as described in Section 11.23, for a trade secret or other proprietary information, such information must be submitted with the Proposal in a separate envelope marked “confidential.” This confidential envelope should be included in Part 2 Envelope (or container). City Staff will ensure that this Confidential Envelope is reviewed by the City Attorney’s office for future handling.

7.0 SUBMITTAL INSTRUCTIONS

7.1 Submittal Package Structure and Contents

There are two parts to the Bid Proposal. Part 1 is the Proposer's Technical Proposal and Required Proposal Form Attachments. Part 2 is the Cost Proposal and Proposing Company's financial information. Part 1 should be submitted in a separate sealed envelope from Part 2's sealed envelope. Both sealed envelopes shall be submitted simultaneously before the Bid Proposal submission deadline.

Your submittal package shall include the following:

Envelope 1 (or Container 1)

- One (1) original and seven (7) printed copies of your Part 1 – Firm's Qualifications and Technical Proposal, and
- One (1) electronic copy of your entire Part 1 proposal in PDF format on flash drives or other electronic media.

Envelope 2 (or Container 2)

- One (1) original copy of Cost Proposal and Confidential Financial data; and
- One (1) electronic copy of your entire Part 2- Cost Proposal without Confidential Financial data in PDF format on a USB flash drive.
- Optional "Confidential" Envelope. If a Proposer desires to claim a **privilege against public disclosure** as described in Section 11.23, for a trade secret or other proprietary information, such information must be submitted with the Proposal in a separate envelope marked "confidential." This confidential envelope should be included in Part 2 Envelope (or container). City Staff will ensure that this Confidential Envelope is reviewed by the City Attorney's office for future handling.

7.2 Proposal Deadline

Proposals shall be submitted not later than the time and date indicated on the cover page of this RFP.

7.3 Labeling

Each submittal envelope/container (Part 1 and Part 2) must include the City's "Sealed Proposal" label. In addition to the City's label, clearly mark each envelope as either Part 1 or Part 2. See Attachment 10 for "Sealed Proposal" label.

7.4 Proposal Delivery Address

Proposals shall be submitted ONLY to:

City of Roseville
Attn: City Clerk Department
311 Vernon Street
Roseville, CA 95678

Faxed and/or emailed proposals will not be accepted.

The City shall not be responsible for proposals delivered to a person or location other than that specified herein.

Postmarks will not be accepted and proposals received after the deadline date and time will not be accepted or considered. **No exceptions.**

7.5 Minor Irregularities

The City reserves the right to waive minor defects and/or irregularities in proposals, and shall be the sole judge of the materiality of any such defect or irregularity.

7.6 Department of Industrial Relations Contractor Registration:

No contractor or subcontractor may be listed on a proposal for or work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. The Contractor shall provide proof of current registration with the Department of Industrial Relations for both itself and all listed subcontractors with their proposal. The Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

8.0 EVALUATION CRITERIA

The proposals will be evaluated based on Contractor's experience, qualifications, Project Understanding, Proposed Plan, and References. The following evaluation criteria and rating schedule will be used to determine the most highly qualified firm(s).

Table 2: Proposal Scoring

Tab	Evaluation Criteria	Maximum Points Possible
A	Firm's Qualifications	20
B	Experience and References	15
C	Qualifications of Team	20
D	Project Understanding	20
E	Project Plan	25
F	Required Statements Documents	Pass/Fail
	Total Score:	100

9.0 SELECTION PROCESS

9.1 Award of Contract

Award of the RFP shall be made to the responsible proposer whose proposal is determined, through a formal evaluation panel process, to be the most advantageous to the City after the evaluation panel has taken into consideration the evaluation factors set forth in the RFP. A master score sheet shall be created based on the evaluation panel's initial evaluation. Proposals shall be scored according to the criteria stated in the RFP.

9.2 Selection Committee

Proposals submitted will be reviewed by a selection committee. Contractors that have submitted the best and most complete proposals may be invited to an interview. The number of Contractors invited to an interview may vary depending upon the number of proposals submitted.

Should the City elect to conduct interviews with any proposers, the following criteria shall be considered and each proposer ranked by the evaluation panel during the interview process: a) Quality of presentation, b) Ability to meet the City's business goals, c) Communication style.

The City reserves the right to make a selection after review of the proposals without oral interviews; therefore, the proposal should be submitted initially on the most favorable terms that the Contractor might propose.

9.3 Contract Negotiation

A contract will be negotiated with the Contractor considered best meeting the City's need for this project. In the event a mutually satisfactory contract cannot be negotiated with the City's first choice, negotiations may be terminated and commenced with the Contractor considered next best in meeting the City's needs for this particular project.

9.4 Contract Execution

The selected Contractor will be required to execute a City prepared contract. The contract may further refine the scope of services and will provide for the terms and conditions of employment.

9.5 City Council Approval

The award of any contract is expressly contingent upon City Council approval and the availability of funds. City staff may not legally bind the City to a contract.

9.6 City's Right to Reject All Proposals

The City reserves the right to reject any or all proposals, or to waive minor irregularities in said proposals, or to negotiate minor deviations with the successful Contractor(s). In the case of differences between written words and figures in a proposal, the amount stated in written words shall govern. In the case of a difference in unit price versus the extended figure, the unit price shall govern.

The City reserves the right to seek clarification on any or all proposal submittals to ensure the RFP specifications are met. Proposals may be rejected from any proposer who does not comply with the City's request for clarification.

9.7 Notice of Intent (NOI)

Once a decision has been made to award the contract, then a formal notice of the intent to award to the recommended proposer(s) shall be made by the Department.

9.8 License, Permits, and Certifications

A City of Roseville business license as well as all applicable permits, licenses and certifications required by local, state or federal law are required before the award of contract.

Contractors are not required to have a City of Roseville Business license to submit a Proposal; however, it will be required before executing a Contract. Contractors may apply for a business license at: <https://www.roseville.ca.us/government/departments/finance/licensing/business>

10.0 GENERAL TERMS & CONDITIONS

10.1 Standard Contract

Upon completion of the evaluation and recommendation for award, the selected Contractor will be required to execute an agreement prepared by the City, a sample of which is included as **Attachment 4**.

10.2 Independent Contractor

At all times the Contractor shall represent himself/herself to be an independent contractor offering such services to the general public and shall not represent himself/herself, or his/her employees, to be an employee of the City. Therefore, the Contractor shall assume all legal and financial responsibility for taxes, FICA, employee fringe benefits, workers' compensation, employee insurance, minimum wage requirements, overtime, etc., and agrees to indemnify, save, and hold the City, its officers, agents, and employees, harmless from and against, any and all loss, cost (including attorneys' fees), and damage of any kind related to such matters.

10.3 Non-Appropriation

The City may terminate any resulting contract at the end of any fiscal year, June 30th, without further liability other than payment of debt incurred during such fiscal year, should funds not be appropriated by its governing body to continue services for which the contract was intended.

10.4 Conflict of Interest

The Contractor shall warrant that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the resulting contract, nor that any such

person will be employed in the performance of such contract without immediate divulgence of such fact to the City. Contractors submitting a proposal in response to this RFP must disclose any actual, apparent, direct, indirect, or potential conflicts of interest that may exist with respect to the Contractor or the Contractor's management or employees relative to the services to be provided to the City. Conflict of interest issues may require consultation with legal counsel. If a Contractor has no conflicts of interest, a statement to that effect must be included in the proposal. Violation of this section shall be a material breach of the contract entitling the City to any and all remedies by law or in equity.

10.5 Undue Influence

The Contractor shall warrant via an executed Proposer's Certification (**Attachment 1**) that no undue influence or pressure is used against or in concert with any officer or employee of the City in connection with the award or terms of the contract that will be executed as a result of this RFP, including any method of coercion, confidential financial arrangement or financial inducement. No officer or employee of the City shall receive compensation, directly or indirectly, from the Contractor, or from any officer, employee or agent of the Contractor, in connection with the award of the contract or any work to be conducted as a result of this RFP. Violation of this section shall be a material breach of the contract entitling the City to any and all remedies by law or in equity.

10.6 Non-Collusion

Contractors submitting proposals shall warrant via an executed Proposer's Certification (**Attachment 1**) that their offer is made without any previous understanding, agreement or connection with any person, firm or corporation submitting a separate proposal for the same project and is in all respects fair, without outside control, collusion, fraud or otherwise illegal action. This condition shall not apply to proposals which are submitted by firms who have partnered with others to submit a cooperative proposal that clearly identifies a primary contractor and the associated sub-consultants or sub-contractors. For construction contracts, proposers shall submit a properly completed and executed "Non-collusion Declaration" which is attached as **Attachment 5**.

10.7 Indemnification & Insurance Requirements

The City's standard indemnification and insurance requirements are provided in the sample contract, included in **Attachment 4**. All costs of complying with the insurance requirements shall be as included in your pricing. The selected Contractor shall provide complete and valid insurance certificates within ten (10) days of the City's written request. Failure to provide the documents within the time stated may result in rejection of the Contractor's proposal. Alterations to the terms and conditions shall not be allowed.

10.8 Cost of Preparing Proposal

The City will not pay any costs incurred by any Contractor in preparing or submitting a proposal in response to this RFP.

10.9 Proposals Property of the City

All documents or materials submitted with or in conjunction with any proposal, including but not limited to electronic files, shall become the property of the City after the proposal submission deadline. No submission documents will be returned. During negotiations, the scope of services may be amended by the City and negotiated based upon ideas provided by other proposers or any other source.

10.10 Proposals are Public Records

All proposals submitted are subject to the public disclosure requirements under the laws of the State of California, unless the City identifies and exercises a right or obligation to exempt any record from public disclosure. However, proposals will not be disclosed until negotiations are complete and a recommendation for selection and award is made.

10.11 Protests

A. Protest Requirements

Any Proposer who is aggrieved in connection with the solicitation or award of a contract may file a protest with the City Clerk's office. The protest must be received in writing by the City Clerk's office within seven (7) calendar days after such aggrieved Proposer 1) knows or should have known of the facts giving rise thereto or 2) the date of the notice of intent to award, whichever is sooner. In no event shall a protest be allowed after an award has been made by City Council. If the seventh calendar day falls on a weekend or City holiday, the protesting party may submit the protest prior to close of business on the first business day following such weekend or holiday. Failure to submit a timely protest shall bar consideration of a protest.

B. Grounds for Protest

1. The alleged grounds for protest shall be limited to the following: (a) computation errors, (b) violations of local, state, or federal law, or (c) the City failed to follow the procedures specified in this Policy.
2. The protest shall state all grounds claimed for the protest and include supporting documentation. Failure to clearly state the grounds for the protest and provide supporting documentation shall be deemed a waiver of all protest rights.

C. Administrative Review

Upon receipt of the protest and after determining the protest was properly filed, the Department Director shall provide a copy of the protest to other proposers who might become aggrieved as a result of the protest and issue a written decision within fourteen (14) calendar days after receipt of the protest. The protest will be evaluated by the Department Director, the City Attorney's Office, and the Purchasing Manager. The protesting proposer shall promptly provide any information requested by City staff as part of such investigation. The decision shall either deny or uphold the protest and include reasons for the decision. The written decision shall be final.

D. Stay of Action During a Protest

In the event a protest is filed under Section 10.11, the City shall not proceed further with the award of the contract until the protest is resolved, unless:

1. The Director of Central Services makes a determination that the award of the contract without delay is necessary to protect a substantial interest of the City, or
2. The City decides to reject all proposals and issue a new RFP.

10.12 Rejection of RFP

The City reserves the right to reject any or all proposals, to waive defects or irregularities in any proposal or in the RFP process, and to offer to negotiate or contract with any Contractor in response to any RFP. This RFP does not constitute any form of offer to contract.

10.13 Multiple Award.

The City reserves the right to award the contract to multiple contractors when applicable.

10.14 Increasing/Decreasing Portions of RFP

The City reserves the right to increase or decrease the amount of any portions of the work represented in the RFP and/or to omit portions of said work, as may be deemed necessary by the City.

10.15 Rejection as Non-Responsive

Proposals may be rejected as non-responsive at the City's sole discretion if there are alterations of form, the proposal is conditional or the proposal is incomplete.

10.16 Modifying RFP

The City reserves the right to modify any portion of, or to postpone or cancel this RFP at any time, and/or reject any and all submissions without indicating any reason.

10.17 No Proposal Accepted

If no proposal is accepted, the City may elect to have the services performed in some other manner.

10.18 Rejecting Team Members, Firms or Sub-contractors

The City reserves the right to reject individual team members, firms, sub-consultants or sub-contractors and request substitution prior to contract award.

10.19 Local Business, Small Business, Minority and Women Owned Business.

Although no preferences will be given, the City highly encourages submission of proposals by local businesses, by small business owners, and by minority and women-owned businesses.

10.20 Withdrawal of Proposals

Proposals may be withdrawn prior to the date and time specified for proposal submission with a formal written notice by an authorized representative of the proposer delivered to the City Clerk's Office. Proposals submitted will become property of the City after the proposal submission deadline.

Proposals may not be withdrawn for ninety (90) days after the due date unless the City enters into a contract with another Contractor prior to the expiration of that ninety (90) day period.

10.21 Electronic Transmittals

No electronic mail, telephone or facsimile proposals will be accepted. If a photocopy is submitted, the proposal must be signed in ink.

10.22 Proposal Postponement and Amendment.

The City reserves the right to revise or amend the RFP or specifications up to the time set for opening of the proposals. Such revisions and amendments, if any, shall be announced by amendments to this RFP through the City's web site. Copies of such amendments shall be furnished to all prospective proposers. Prospective proposers are defined as those proposers who have registered and are on the City's RFP list for this material/service. If revisions and amendments require changes in quantities, prices or scope of services, the date set for opening of the proposals may be postponed by such number of days as in the opinion of the City shall enable proposers to revise their proposals. Proposals which fail to acknowledge a substantive addendum to the RFP, as determined by the City Attorney's Office, on the City supplied addendum form will be rejected as non-responsive. Any revisions or amendments to the RFP will become incorporated into any contract awarded pursuant to the RFP.

10.23 Proprietary Information

Proposers submitting a proposal in response to this RFP must provide a statement that nothing contained in the submitted proposal will be proprietary. However, if a proposer desires to claim a privilege against public disclosure for a trade secret or other proprietary information, such information must be submitted with the proposal in a separate envelope marked "confidential." The City Attorney's Office will determine if the information is in fact proprietary, based on state and federal law. Note that under California law, a price proposal to a public agency is not a trade secret. The Contractor shall defend, indemnify and hold harmless the City regarding any claim by any third party for the public disclosure of the "confidential" portion of the proposal.

10.24 Right to Request Additional Information

During the evaluation process, the City reserves the right, where it may serve the best interests of the City, to request additional information and clarifications from proposers. Such information will be requested in writing to the specific proposer. This information will become a part of the original proposal submitted by the specific proposer and will be used by the City in evaluating the proposal and will not be shared with other proposers during the evaluation and negotiation process.

10.25 Modification of Proposals

Modification of a proposal already received will be considered only if the modification is received prior to the deadline date for receiving proposals. All modifications shall be made in writing, executed, and submitted in the same form and manner as the original proposal.

10.26 Examination of Contract Documents.

Each proposer shall thoroughly examine and be familiar with the terms of this RFP, the sample contract attached as **Attachment 4**, legal and procedural documents, general conditions, specifications, and addenda (if any), which will constitute the contract documents. Submission of a proposal shall constitute acknowledgement, upon which the City may rely, that the proposer has thoroughly examined and is familiar with the contract documents. Failure or neglect of a proposer to receive or examine any of the contract documents shall in no way relieve the proposer of any obligation with respect to their proposal or to the contract. No claim for additional compensation will be allowed which is based upon lack of knowledge of any contract document.

10.27 Non-Discrimination

The City maintains various policies related to contractual service providers. Among these is an anti-discrimination policy, which requires that the City's contractors not discriminate in hiring on the basis of gender, race, religion, sexual orientation, medical condition, and all other categories protected by law. Upon acceptance of a proposal, the City may request that the selected Contractor sign a statement affirming its compliance with this policy.

10.28 No Assignment or Modifications

This awarded contract is to be binding on the successors and assigns of the parties hereto. The services called for herein are deemed unique and except as provided herein Contractor shall not assign, transfer, subcontract, or otherwise substitute its interest in the agreement or any of its obligations herein without the written consent of the City. The Agreement may be modified only by a written amendment signed by the parties.

10.29 Bankruptcy

Upon filing for any bankruptcy or insolvency proceeding whether voluntary or involuntary, or upon the appointment of a receiver, trustee, or assignee for the benefit of creditors, the Contractor must notify the City immediately. Upon learning the actions herein identified, the City reserves the right, at its sole discretion, to cancel the contract.

10.30 Bonds

The successful Contractor will be required to provide a **100% Faithful Performance Bond and a 100% Labor and Materials Bond** using the City's forms.

Attachment 1 - PROPOSER'S CERTIFICATION

CNG Fueling Station Upgrade and Maintenance Plan Phase 1 and Phase 2

I hereby propose to furnish the goods or services specified in the Request for Proposals ("RFP"). I agree that my proposal will remain firm for a period of up to ninety (90) days in order to allow the City of Roseville ("City") adequate time to evaluate the qualifications submitted.

I have carefully examined the Request for Proposals and any other documents accompanying or made a part of this RFP. The information contained in this proposal is true and correct to the best of my knowledge and is signed under penalty of perjury under the laws of the State of California. I further certify that I am duly authorized to submit this proposal on behalf of the firm as its authorized agent and that the firm is ready, willing and able to perform if awarded the contract.

I further certify that this proposal is made without prior understanding, agreement, connection, discussion, or conspiracy with any other person, firm or corporation submitting a proposal for the same product or service; that this proposal is fair and made without outside control, collusion, fraud or illegal action; that no officer, employee or agent of the City or any other proposer is financially interested in said proposal; that no undue influence or pressure was used against or in concert with any officer, employee or agent of the City in connection with the award or terms of the contract that will be executed as a result of this RFP; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

Type of Organization:

☐ Sole Proprietorship ☐ Corporation ☐ State of Incorporation
☐ Partnership ☐ Limited Liability Company

The undersigned Proposer acknowledges receipt, understanding, and full consideration of the following Addenda:

Table 1.1 – Acknowledgement of Addenda

Addendum Number	Addendum Date	Signature of Proposer

Certification if proposing firm is a **Sole Proprietorship:**

Name (typed or printed):			
By:			
		(Individual's signature)	
Doing business as:			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

Certification if proposing firm is a **Partnership**

Partnership Name (typed or printed):			
By:			
		(Signature of general partner- attach evidence of authority to sign)	
Name (typed or printed):			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

Certification if proposing firm is a **Corporation**:

Corporation Name (typed or printed):			
State of Incorporation:			
By:			
		(Signature - attach evidence of authority to sign – Board Resolution)	
Name (typed or printed):			
Title:			
(CORPORATE SEAL)			
Attest:			
		(Signature of Corporate Secretary)	
Name:			
Date of Qualification to do business:			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

*If person executing on behalf of a Corporation is not the President or Vice President, evidence of authority to sign on behalf of Corporation must be attached.

Certification if proposing firm is a **Limited Liability Company**:

Limited Liability Company Name :			
By:			
		(Signature of Managing Member - attach evidence of authority to bind the LLC under the LLC's articles of organization)	
Name (typed or printed):			
Title:			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

****END OF ATTACHMENT 1****

Attachment 2 - LICENSES and DIR REGISTRATION

CNG Fueling Station Upgrade and Maintenance Plan Phase 1 and Phase 2

List the licenses held by your company and/or employees. The following representations are made under penalty of perjury.

A. CONTRACTOR'S LICENSES

CA State License No.	Name on License	Class/Type	Expiration Date

B. CITY OF ROSEEVILL BUSINESS LICENSE

Contractors are not required to have a City of Roseville Business license to submit a Proposal; however, it will be required before executing a contract. Contractors may apply for a business license at: <https://www.roseville.ca.us/government/departments/finance/licensing/business>

Do you currently have a City of Roseville Business License? _____ Yes _____ No

City License No. _____

C. DEPARTMENT OF INDUSTRIAL RELATIONS CONTRACTOR REGISTRATION

***For Public Works Projects (SB854):** Contractors must register with the Department of Industrial Relations (DIR) pursuant to Labor Code section 1725.5. The contractor shall provide proof of current registration with the Department of Industrial Relations for both itself and all listed subcontractors with their Proposal. Contractors may register at:

<http://www.dir.ca.gov/public-works/publicworks.html>

DIR contractor registration number and expiration date:

No.: _____ Expiration Date: _____

****END OF ATTACHMENT 2****

Attachment 3 - SUBCONTRACTOR LIST

If subcontractors will not be used, proposer must write "NONE". For construction contracts, in accordance with the Public Contract Code, Part 1, Chapter 4, Subletting and Subcontracting, Contractors must list the name and business address of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement, or who will specially fabricate and install a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of one-half of one percent (0.5%) of the prime contractor's total bid, or in the case of bids or offers for the construction of streets and highways, including bridges, in excess of one-half of one percent (0.5%) of the prime contractor's total bid or ten thousand dollars (\$10,000) whichever is greater.

Table 3-1: Statement of Subcontractors

Work to be done by Subcontractor	Percent of Total GMP	Name of Subcontractor	Place of Business (City and State)	CSLB Contractor License Number	DIR Registration Number, and Expiration Date

****END OF ATTACHMENT 3**

Attachment 4 – SAMPLE CONTRACT



PURCHASING
CITY OF ROSEVILLE

SERVICE AGREEMENT

2005 HILLTOP CIRCLE, ROSEVILLE, CA 95747
(916) 774-5720 • TDD (916) 774-5220 • FAX (916) 774-5738

SERVICE AGREEMENT

No: _____

SERVICE LOCATION: _____

REQ. NO.: _____ DATE: _____

SUBMIT ALL INVOICES TO:
CITY OF ROSEVILLE
Finance Department
311 Vernon Street
Roseville, CA 95678

Contractor No.:
Telephone No.:
Email address:
Contractor:

Fax: _____

Department: _____

Acct. Code: _____

Buyer:
Phone: _____

Start Date	Terms	Completion Date	Insurance Limits	Contact
			Approved by Risk Mgt.	

The contractor shall furnish all labor, equipment and materials necessary to accomplish the following:

SAMPLE

Total Cost of Service: \$ _____

ATTENTION: Total cost of service not to exceed the agreement amount without prior approval of the Purchasing Office.

The Contractor named hereon by the acceptance of this order agrees to the provisions of this document titled "Service Agreement" and Attachment "A".

Roseville Business License No.: _____ Contractor License No.: _____ DIR Registration No.: _____

☐ SOLE PROPRIETOR

☐ PARTNERSHIP

☐ CORPORATION

CONTRACTOR: _____
SIGNATURE PRINT NAME TITLE

CONTRACTOR: _____
SIGNATURE PRINT NAME TITLE

By: _____
Dominick Casey, City Manager
CITY OF ROSEVILLE, A MUNICIPAL CORPORATION

1. To the fullest extent allowed by law, Contractor shall defend, indemnify, and save and hold harmless the City, its officers, agents, employees and volunteers from any claims, suits or actions of every name, kind and description brought forth, or on account of, injuries to or death of any person (including but not limited to workers and the public), or damage to property, resulting from or arising out of Contractor's willful misconduct or negligent act or omission while engaged in the performance of obligations or exercise of rights created by this Agreement, except those matters arising from City's sole or active negligence or willful misconduct. The parties intend that this provision shall be broadly construed. Contractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.
2. Contractor is an independent contractor, and shall not be considered an officer, agent or employee of the City.
3. Without the written consent of the City, this Agreement is not assignable by Contractor either in whole or in part.
4. Time is of the essence of this Agreement.
5. At any time during the term of this Agreement, the City has the right to terminate this Agreement, provided Contractor is given thirty (30) days' written notice. City's termination shall be without further liability to City, however Contractor shall be entitled to all costs reasonably incurred prior to the date of termination. Contractor acknowledges that City may terminate this Agreement should funds not be appropriated by its governing body to continue services under this Agreement.
6. This Agreement may only be amended or modified in writing. It is integrated and contains the complete understanding of the parties.
7. All equipment, supplies and services sold to the City of Roseville shall conform to the general safety orders of the State of California.
8. Unless notified to the contrary, in writing, the City assumes that the Contractor has accepted the work in accordance with the plans and specifications (if any) and agrees to do the work in compliance with this Agreement.
9. All prevailing wages and fair employment practices must be adhered to. For prevailing wage contracts over \$25,000, copies of certified payroll must be submitted with invoices. Prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>.
- 10a. Unless otherwise specified, the Contractor shall maintain the policies of insurance outlined in Attachment A, incorporated herein by this reference, in full force and effect during the term of this Agreement. The City of Roseville retains sole discretion in determining the types and proper levels of insurance coverage.
- 10b. Form. Contractor shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney.
- 10c. Additional Insureds. Contractor shall also provide a separate endorsement or section of the policy showing City, its officers, agents, employees, and volunteers as additional insureds for each type of coverage (except Workers' Compensation) and for ongoing and completed operations. Such insurance shall specifically cover the contractual liability of Contractor. The additional insured coverage under the Contractor's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from City's insurance or self-insurance. In addition, the additional insured coverage shall be at least as broad as the Insurance Services Office ("ISO") CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.
- 10d. Cancellation/Modification. Contractor shall provide ten (10) days written notice to City prior to cancellation or modification of any insurance required by this Agreement.
- 10e. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of City (if agreed to in a written contract) before City's own insurance shall be called upon to protect it as a named insured.
- 10f. Subcontractors. Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Agreement, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor's work. Furthermore, Contractor shall require its subcontractors to agree to be bound to Contractor and City in the same manner and to the same extent as Contractor is bound to City under this Agreement. Additionally, Contractor shall obligate its subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request.
- 10g. Self-Insured Retentions. All self-insured retentions ("SIR") must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.
- 10h. Waiver of Subrogation. Contractor hereby agrees to waive subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General Liability and Automobile Liability policies shall be endorsed with a waiver of subrogation in favor of City, its officers, agents, employees and volunteers for all work performed by Contractor, its employees, agents and subcontractors.
- 10i. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve Contractor of liability in excess of such coverage, nor shall it preclude City from taking such other actions as are available to it under any other provisions of this Agreement or law.

11. Contractor shall comply with all federal, state and local laws and ordinances, including but not limited to the City's storm water regulations, as may be applicable to the performance of services under this Agreement. Failure to comply with local ordinances may result in monetary fines and cancellation of this Agreement. Refer to www.roseville.ca.us/stormwater for links to more information on the City's storm water regulations.
12. In the event that the terms of any attachment or exhibit conflict with any terms of this Service Agreement, the terms of this Service Agreement shall control.
13. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a ".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original thereof.
14. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorneys' fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. This Agreement shall be governed by and construed in accordance with the laws of the State of California.
15. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.
16. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.
17. No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this agreement, Contractor and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
18. Contractor must submit all claims as defined in and in accordance with the claim resolution process set forth in Section 9204 of the Public Contract Code. Each such claim must be sent to the City by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the claim. All claims must be received prior to acceptance of the work.

City reserves the right to withhold any payments to Contractor in the event of noncompliance with insurance requirements or if required by law.



ATTACHMENT A
HUMAN RESOURCES/RISK MANAGEMENT DIVISION
INSURANCE REQUIREMENTS
SERVICE AGREEMENTS OVER \$22,790 OR INVOLVING HIGH RISK
ACTIVITIES

General - Required Coverage/Documentation

- General Liability: \$1 Million per occurrence
\$2 Million aggregate
- Automobile Liability: \$1 Million combined single limit
- Workers' Compensation: Statutory *Must provide a Waiver of subrogation
- Additional Insured Endorsement (AIE) - General Liability policy: CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsement shall cover the City of Roseville, its officers, agents, employees and volunteers as additional insured.
- Policies must be primary and non-contributory
- A 30 day notice of cancellation must be provided
- List certificate holder as: The City of Roseville -Insurance Compliance
PO Box 100085-R1, Duluth, GA 30096

Additional Liability Requirements if required by Agreement (and marked below):

☐ Construction	☒ Design Professional	☐ Chemical/Environmental
General Liability: \$2 Million/occurrence \$4 Million aggregate	General Liability: \$2 Million/occurrence \$4 Million aggregate Professional Liability \$2 Million/occurrence	General Liability: \$3 Million/occurrence \$6 Million aggregate, Pollution – \$2 Million/Occurrence Auto - \$2 Million/Occurrence
☐ IT Services	☐ Professional Consultant	☐ Hazardous Materials
Professional Liability: \$1 Million/occurrence No auto required	Professional Liability: \$1 Million/occurrence	Pollution Liability: \$1 Million/occurrence
☐ Special Events/Caterers-Vendors	☐ Professional Counseling/Psychological	☐ Pyrotechnics
No auto required No workers' comp required	Professional Liability: \$1 Million/occurrence No auto required	General Liability: \$5 Million/occurrence \$10 Million aggregate Auto - \$2 Million/Occurrence

Insurance Submission Process

The City of Roseville Human Resources/Risk Management Department uses a service called EBIX to manage our insurance certificate tracking.

How It Works

- The vendor's contact information is entered into EBIX. EBIX will contact the vendor to request proof of insurance.
- The Vendor can forward the request to their Insurance Agent(s) if necessary.
- Vendor/Insurance Agent submits insurance to EBIX by email to roseville@ebix.com or by fax to (770) 325-5727. After faxing or emailing the certificate, please **DO NOT** send the certificate by mail to EBIX. Please do not mail, email or fax any certificates to the City of Roseville.
- Once submitted, EBIX reviews the insurance documentation. If there are deficiencies, EBIX will send a follow up letter or email requesting additional information.

Questions Regarding Insurance Submission: Contact EBIX at (951) 652-4239
Questions Regarding Insurance Requirements Contact Risk Management at (916) 774-5202

Attachment 5 – NONCOLLUSION DECLARATION

NONCOLLUSION DECLARATION TO BE EXECUTED BY PROPOSER AND SUBMITTED WITH PROPOSAL

The undersigned declares:

I am the _____ of _____, the party making the foregoing Proposal.

The proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [date], at _____ [city], _____ [state].

(Signature of Declarant)

****END OF ATTACHMENT 5****

Attachment 6 – ASSEMBLY BILL NO. 626

CHAPTER 810

An act to add and repeal Section 9204 of the Public Contract Code, relating to public contracts.

[Approved by Governor September 29, 2016. Filed with Secretary of State September 29, 2016.]

LEGISLATIVE COUNSEL'S DIGEST

AB 626, Chiu. Public contracts: claim resolution.

Existing law prescribes various requirements regarding the formation, content, and enforcement of state and local public contracts. Existing law applicable to state public contracts generally requires that the resolution of claims related to those contracts be subject to arbitration. Existing law applicable to local agency contracts prescribes a process for the resolution of claims related to those contracts of \$375,000 or less.

This bill would establish, for contracts entered into on or after January 1, 2017, a claim resolution process applicable to any claim by a contractor in connection with a public works project. The bill would define a claim as a separate demand by the contractor for one or more of the following: a time extension for relief from damages or penalties for delay, payment of money or damages arising from work done pursuant to the contract for a public work, or payment of an amount disputed by the public entity, as specified.

This bill would require a public entity, defined to exclude certain state entities, upon receipt of a claim sent by registered or certified mail, to review it and, within 45 days, provide a written statement identifying the disputed and undisputed portions of the claim. The bill would authorize the 45-day period to be extended by mutual agreement. The bill would require any payment due on an undisputed portion of the claim to be processed within 60 days, as specified. The bill would require that the claim be deemed rejected in its entirety if the public entity fails to issue the written statement.

This bill would authorize, if the claimant disputes the public entity's written response or if the public entity fails to respond to a claim within the time prescribed, the claimant to demand to meet and confer for settlement of the issues in dispute. The bill would require any disputed portion of the claim that remains in dispute after the meet and confer conference to be subject to nonbinding mediation, as specified. The bill would provide that unpaid claim amounts accrue interest at 7% per annum. The bill would prescribe a procedure by which a subcontractor or lower tier contractor may make a claim through the contractor.

This bill would require the text of these provisions, or a summary, to be set forth in the plans or specifications for any public work which may give rise to a claim. The bill would specify that a waiver of these rights is void and contrary to public policy, except as specified. The bill would also specify that it does not impose liability on a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

By increasing the duties of local agencies and officials, this bill would impose a state-mandated local program.

This bill would, on January 1, 2020, repeal the provision establishing the claim resolution process.

This bill would specify that these provisions constitute a matter of statewide concern.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that, if the Commission on State Mandates determines that the bill contains costs mandated by the state, reimbursement for those costs shall be made pursuant to these statutory provisions.

The people of the State of California do enact as follows:

SECTION 1. Section 9204 is added to the Public Contract Code, to read: 9204. (a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

(c) For purposes of this section:

(1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.

(2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.

(3) (A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit

corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) "Public entity" shall not include the following:

- (i) The Department of Water Resources as to any project under the jurisdiction of that department.
- (ii) The Department of Transportation as to any project under the jurisdiction of that department.
- (iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.
- (iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.
- (v) The Military Department as to any project under the jurisdiction of that department.
- (vi) The Department of General Services as to all other projects.
- (vii) The High-Speed Rail Authority.

(4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d)(1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2)(A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may

demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

- (B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable ~~procedures~~ outside this section.
- (C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.
- (D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.
- (E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.
- (3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.
- (4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.
- (5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish

reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

- (e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.
- (f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.
- (g) This section applies to contracts entered into on or after January 1, 2017.
- (h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.
- (i) This section shall remain in effect only until January 1, 2020, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

SEC. 2. The Legislature finds and declares that it is of statewide concern to require a charter city, charter county, or charter city and county to follow a prescribed claims resolution process to ensure there are uniform and equitable procurement practices.

SEC. 3. If the Commission on State Mandates determines that this act contains costs mandated by the state, reimbursement to local agencies and school districts for those costs shall be made pursuant to Part 7 (commencing with Section 17500) of Division 4 of Title 2 of the Government Code.

****END OF ATTACHMENT 6****

Attachment 7 - MAP & ELEVATION OF EXISTING FACILITIES



Site 1. Storage Vessels and Gas Compression Skid



Site 2. Unused Fast-Fill Station

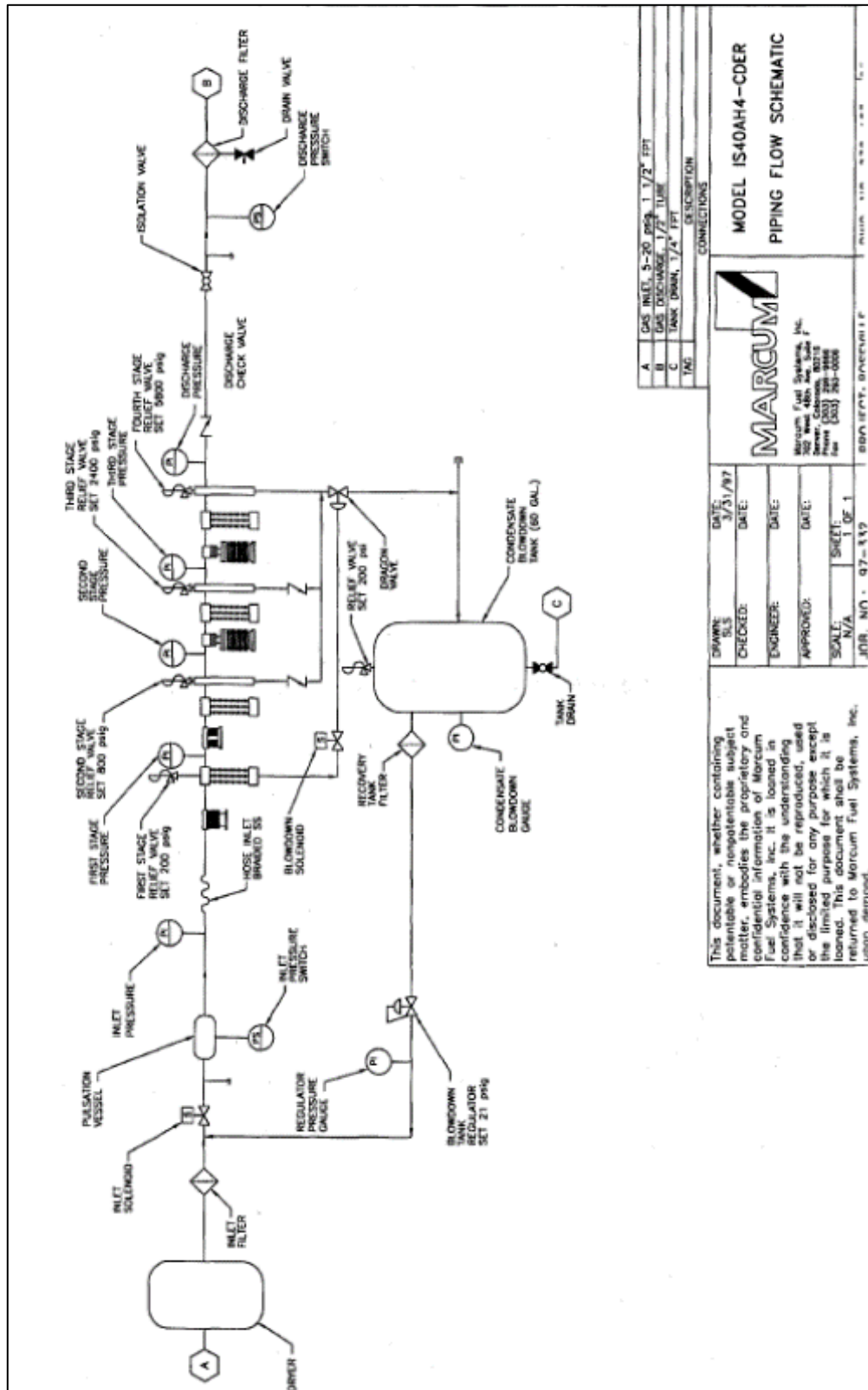


Site 3. Existing Emergency Stop Switch

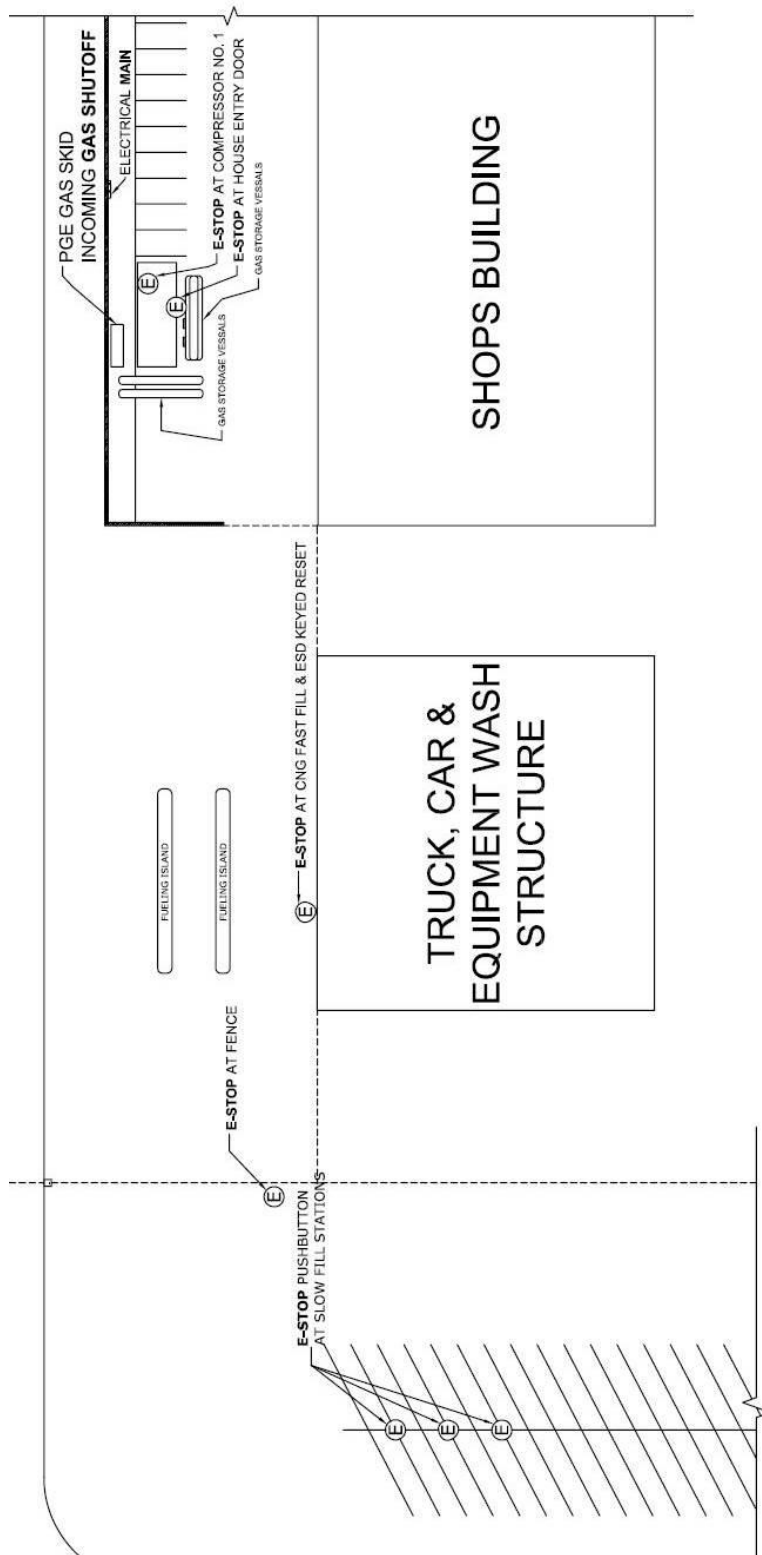
Site 4. Time-Fill Stations; Six (6) posts with two (2) nozzles per post



Attachment 8 – PROCESS AND INSTRUMENTATION DIAGRAM



Attachment 9 – LOCATION OF EXISTING EMERGENCY STOP BUTTONS



Attachment 10 – PROPOSAL ENVELOPE LABEL

SEALED PROPOSAL



**IMPORTANT
NOTICE TO
PROPOSER**

- The envelope containing your proposal **MUST** have:
1. Your name and address in the **UPPER** left corner.
 2. This label on the **LOWER** left corner.

RFP NAME

PROPOSAL DUE DATE

PROPOSAL DUE TIME

_____ A.M. _____ P.M.
PROPOSAL FOR

**TIME SENSITIVE. DELIVER TO
CITY CLERK IMMEDIATELY.**

Attachment 11 - ASSURANCE OF DESIGNATED PROJECT TEAM

The undersigned Proposer certifies that the designated project team, including subcontractors, will be used for this Project. Departure or reassignment of, or substitution for, any member of the designated project team or subcontractors shall not be made without the prior written approval of the City.

NAME OF BUSINESS

SIGNATURE

NAME & TITLE, TYPED OR PRINTED

MAILING ADDRESS

TELEPHONE NUMBER

EMAIL

****END OF ATTACHMENT 11****

Attachment 12 –NO CONFLICT OF INTEREST DECLARATION

The undersigned Proposer certifies that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the resulting agreement, nor that any such person will be employed in the performance of such work without immediate divulgence of such fact to the City. Proposers submitting a Proposal in response to this RFP must disclose any actual, apparent, direct, indirect, or potential conflicts of interest that may exist with respect to the Proposer or the Proposer's management or employees relative to the services to be provided to the City. Conflict of interest issues may require consultation with legal counsel. **If a Proposer has no conflicts of interest, a statement to that effect must be added to this ATTACHMENT 12.** Violation of this section shall be a material breach of the Agreement entitling the City to any and all remedies by law or in equity.

The undersigned Proposer certifies that no undue influence or pressure is used against or in concert with any officer or employee of the City in connection with the award or terms of the Agreement that will be executed as a result of this RFP, including any method of coercion, confidential financial arrangement or financial inducement. No officer or employee of the City shall receive compensation, directly or indirectly, from the Proposer, or from any officer, employee or agent of the Proposer, in connection with the award of the Agreement or any Work to be conducted as a result of this RFP. Violation of these requirements shall be a material breach of the Contract entitling the City to any and all remedies by law or in equity.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [date], at _____ [city], _____ [state].

(Signature of Declarant)

****END OF ATTACHMENT 12****

Attachment 13 – PROPRIETARY INFORMATION STATEMENT

Complete and sign one of the following statements.

No Proprietary Information

Contractor hereby certifies that nothing contained in the submitted Proposal is to be proprietary information.

NAME OF BUSINESS

SIGNATURE

NAME & TITLE, TYPED OR PRINTED

Existence of Proprietary Information.

Contractor desires to claim a privilege against public disclosure for a trade secret or other proprietary information.

NAME OF BUSINESS

SIGNATURE

NAME & TITLE, TYPED OR PRINTED

****END OF ATTACHMENT 13****



COUNCIL COMMUNICATION

CC #: 0724
File #: 0203-05

Title: VHF Communication Maintenance - Sole Source Contract Purchase Agreement
Contact: Greg James 916-774-5806 gjames@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.5.

RECOMMENDATION TO COUNCIL

Staff recommends Council adopt a resolution to approve a Sole Source Contract Purchase Agreement with Silke Communications for repairs, modifications, integration and specialized equipment required for maintenance of the VHF enterprise wide interoperable radio system.

BACKGROUND

The existing VHF communications systems utilized for communications with Placer County local agencies and State of California systems for both law enforcement and the fire service, were upgraded with grant funding between 2010 and 2015.

During those upgrades, additional system modifications and maintenance needs were identified, which included replacing aged antenna systems, the re-engineering and modifications of outdated filters, modifications required to allow proper communication with local agencies frequencies, and fixes to address coverage and capability for public safety communications. The VHF system has had increased technical challenges and now requires more resources than expected.

While addressing these repairs and re-engineering, it is necessary to have the current service provider (Silke Communications) continue such work since all are engineered by this vendor. All components must be installed by one vendor to maintain warranty status, and the vendor must also be a factory-certified dealer of such equipment already installed or added. For this reason, staff recommends the existing vendor be granted approval to continue such work under the sole source contract purchase agreement.

FISCAL IMPACT

The \$100,000 contract purchase agreement will be funded by \$50,600 in the existing Fire Department operating budget, with additional funding coming from the General Fund Contingency budget. The agreement with Silke Communications is intended to fill unexpected time-sensitive needs as they occur.

ECONOMIC DEVELOPMENT / JOBS CREATED

Not applicable.

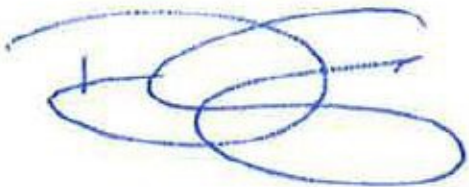
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. A contract purchase agreement for VHF Communications meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Greg James, Assistant Fire Chief - Operations

Rick Bartee, Fire Chief



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-120

Silke Contract Purchase Agreement

RESOLUTION NO. 20-120

APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF
ROSEVILLE AND SILKE COMMUNICATIONS, AND AUTHORIZING THE CITY
MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a contract purchase agreement (3000225) for VHF communication maintenance, between the City of Roseville and Silke Communications, has been reviewed by the City Council;

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said contract purchase agreement is approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 2020, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



Contract Purchase Agreement 3000225

Supplier Details:

Company Silke Communications
Contact
Address 1050 Riverside Pkwy Suite 110

West Sacramento, CA 95605

Submit your response to:

Company City of Roseville
Contact Babette Owens
Address Purchasing Division
2075 Hilltop Circle
Roseville, CA 95747
Phone (916) 774-5704
Fax (916) 774-5736
E-mail BOWens@roseville.ca.us

This Contract Purchase Agreement is sent for your review and acceptance. Notify the Buyer via email of any needed changes to the company name, address, and contact information. The Buyer will update the agreement prior to you signing the document.

Return signed copies of the agreement to the Buyer noted on the agreement. Alterations or modifications to the agreement are not allowed. Upon receipt of all necessary documents, the City will sign the agreement and return a fully executed copy to you. Receipt of the signed copy will be your notice to proceed with the work in accordance with the terms and conditions of the agreement. Work must not begin until the contract has been fully executed.

The following guidelines must be followed for the signature block on the agreement:

Sole proprietorship - **By owner**
Partnership - **Any general partner**

Corporation - **Two options:**

(1) A signature from the President and the corporate seal; **OR**

(2) One signature from the Chairman of the Board, President, or any Vice President **AND** one signature from the Secretary, any Assistant Secretary, Chief Financial Officer, or any Treasurer or Assistant Treasurer of the corporation

*General Manager, Office Manager and/or Sales Manager are **not** corporate officer titles. The agreement will be rejected if not signed in accordance with these guidelines.

Insurance requirements:

The City's insurance requirements are referenced on Attachment A of the agreement. By signing the agreement, you are confirming that your company has the minimum insurance limits required.



Contract Purchase Agreement 3000225

Agreement	3000225
Agreement Date	19-MAR-2020
Revision	0
Agreement Amount	100,000.00 USD

Invoice To **City of Roseville**
Accounts Payable
311 Vernon St
ROSEVILLE CA 95678

Phone: (916) 774-5488

Fax: (916) 784-3796

Email: accountspayable@roseville.ca.us

Supplier **Silke Communications**
 1050 Riverside Pkwy Suite 110

West Sacramento, CA 95605

Phone: ()

Fax: ()

Email: arecord@silkecom.com

Description of Labor, equipment and/or materials
 SILKE-VHF System FY2019-20 Services and equipment related to repair and basic maintenance for the citywide VHF system in accordance with the attached VHF and On Call Services SOW dated 02/25/2020.

For questions contact Katrina Rostam at (916) 774 5848.

START DATE: EXECUTED AGREEMENT

END DATE: 6/30/20

*The total amount listed is an approximation only. The City does not guarantee whatsoever the actual value of this contract.

Customer #	Supplier #	Payment Terms	Freight Terms	FOB	Shipping Method
	12473	Net 30	Freight on Board at the destination	Destination	Best Method
Start Date	End Date		Confirm To		
Babette Owens Phone 1-916-774-5704					

Attention: Total Cost not to exceed the agreement amount without prior approval of the Purchasing office.

Contract Terms and Conditions

1. To the fullest extent allowed by law, Consultant agrees to indemnify, including the cost to defend City, and its officers, agents, employees and volunteers from any and all claims, demands, costs or liability that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of Consultant and its agents in the performance of services under this contract, but this indemnity does not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss, arising from the sole negligence, willful misconduct or defects in design by City or the agents, servants, or independent contractors who are directly responsible to City, or arising from the active negligence of City. Consultant's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.
2. Consultant is an independent contractor, and shall not be considered an officer, agent or employee of the City.
3. Without the written consent of the City, this Agreement is not assignable by Consultant either in whole or in part.
4. Time is of the essence of this Agreement.
5. At any time during the term of this Agreement, the City has the right to terminate this Agreement, provided Consultant is given thirty (30) days written notice. City's termination shall be without further liability to City; however, Consultant shall be entitled to all costs reasonably incurred prior to the date of termination. Consultant acknowledges that City may terminate this Agreement should funds not be appropriated by its governing body to continue services under this Agreement.
6. This Agreement may only be amended or modified in writing. It is integrated and contains the complete understanding of the parties.
7. All equipment, supplies and services sold to the City of Roseville shall conform to the general safety orders of the State of California.
8. Unless notified to the contrary, in writing, the City assumes that the Consultant has accepted the work in accordance with the plans and specifications (if any) and agrees to do the work in compliance with this Agreement. Any work product created for City pursuant to this Agreement is deemed owned by City.
9. All prevailing wages and fair employment practices must be adhered to. For prevailing wage contracts over \$25,000, copies of certified payroll must be submitted with invoices. Prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address:
<http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>
10. Consultant agrees to the below insurance requirements:
 - a. Unless otherwise specified, the Consultant shall maintain the policies of insurance outlined in Attachment A, incorporated herein by this reference, in full force and effect during the term of this Agreement. The City of Roseville retains sole discretion in determining the types and proper levels of insurance coverage.
 - b. Form. Consultant shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney.
 - c. Additional Insureds. Consultant shall also provide a separate endorsement or section of the policy showing City, its officers, agents, employees, and volunteers as additional insureds for each type of coverage, except for Workers' Compensation and Professional Liability. Such insurance shall specifically cover the contractual liability of Consultant.

The additional insured coverage under the Consultant's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from City's insurance or self-insurance. In addition, the additional insured coverage shall be at least as broad as the Insurance Services Office (ISO) CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be:

- (1) the minimum coverage and limits specified in this Agreement; or
 - (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater
 - d. Cancellation/Modification. Consultant shall provide ten (10) days written notice to City prior to cancellation or modification of any insurance required by this Agreement.
 - e. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of City (if agreed to in a written contract) before City's own insurance shall be called upon to protect it as a named insured.
 - f. Subconsultants. Consultant agrees to include in its contracts with all subconsultants the same requirements and provisions of this Agreement, including the indemnity and insurance requirements, to the extent they apply to the scope of the subconsultants work. Furthermore, Consultant shall require its subconsultants to agree to be bound to Consultant and City in the same manner and to the same extent as Consultant is bound to City under this Agreement. Additionally, Consultant shall obligate its subconsultants to comply with these same provisions with respect to any tertiary subconsultant, regardless of tier. A copy of City's indemnity and insurance provisions will be furnished to the subconsultant or tertiary subconsultant upon request.
 - g. Self-Insured Retentions. All self-insured retentions (SIR) must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.
 - h. Waiver of Subrogation. Consultant hereby agrees to waive subrogation which any insurer of Consultant may acquire from Consultant by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General Liability and Automobile Liability policies shall be endorsed with a waiver of subrogation in favor of City, its officers, agents, employees and volunteers for all work performed by Consultant, its employees, agents and sub consultants.
 - i. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve Consultant of liability in excess of such coverage, nor shall it preclude City from taking such other actions as are available to it under any other provisions of this Agreement or law.
11. Consultant shall comply with all federal, state, local laws, ordinances and policies as may be applicable to the performance of services under this Agreement. Failure to comply with local ordinances may result in monetary fines and cancellation of this Agreement.
 12. In the event that the terms of any attachment or exhibit conflict with any terms of this Agreement, the terms of this Agreement shall control.
 13. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a ".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original thereof.

14. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorneys' fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. This Agreement shall be governed by and construed in accordance with the laws of the State of California.
15. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.
16. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.
17. For purposes of this Agreement, the terms "Contractor," "Consultant," and "Supplier" are used interchangeably.
18. Consultant agrees that any and all information furnished by City shall be deemed proprietary and confidential. All such information, to the extent previously, presently or subsequently disclosed to Consultant and/or processed and derived by Consultant services is the property of City and such property shall be deemed and treated as "Confidential Information" of City. Consultant acknowledges that such Confidential Information may contain information provided and/or generated by third-parties. Consultant agrees that such Confidential Information shall not be disclosed to any third party without written permission from City, except as required by law. Consultant shall not use the Confidential Information except to perform Consultant's services as directed by City.
19. All facilities, devices, networks and services used to store, deliver, process, backup or purge Confidential Information will employ administrative, physical, technical, and procedural safeguards and best practices at a level sufficient to secure Confidential Information from unauthorized access, destruction, use, modification, or disclosure. Such measures will be no less protective than those used to secure Consultant's own information of a similar type, and in no event less than reasonable in view of the type and nature of the information involved. It is the City's expectation that Consultant, at its own expense, shall perform annual audits for any data centers that house Confidential Information, using an independent third-party audit that meets industry standards applicable to the services under this Agreement, and provide the audit report or certification upon request to City.
20. Consultant will retain Confidential Information until deleted by City or City-authorized third party, or for a time period mutually agreed upon by the parties to this Agreement.
21. Upon termination or expiration of this Agreement, Consultant will ensure that all Confidential Information is securely transferred to City within thirty (30) calendar days. Consultant will ensure that any transfer of Confidential Information is accomplished by methods that are compatible with the relevant City systems, and that City will have access to all Confidential Information during any such transfer. Consultant shall securely dispose of all Confidential Information when requested by City and Consultant will provide written notification to City once all Confidential Information has been securely disposed of.
22. Consultant shall report to City any data compromise or unauthorized access to Confidential Information within twenty-four (24) hours after Consultant discovers such data compromise or unauthorized access. Consultant will take commercially reasonable measures to address any such data compromise or unauthorized access in a timely manner. Except as otherwise required by law, Consultant will not provide notice to end users or other entities of any such data compromise or unauthorized access without written permission from City. Consultant will promptly reimburse City in full for all fees and costs incurred by City in any investigation, remediation or litigation resulting from any such data compromise or unauthorized access, including identity protection and restoration services for each person, who in the City's sole discretion, could be impacted by identity theft.
23. Consultant may not advertise that City is a client, list City as a reference or otherwise use City's name, logos, trademarks, or service marks without prior written permission from City.

24. Consultant acknowledges that services rendered under this agreement (including but not limited to service levels and operational levels) shall be performed in accordance with industry standards.
25. If the project referenced on this agreement is a Public Works project, then the following shall apply: No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this agreement, Contractor and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
26. If the project referenced on this agreement is a Public Works project, then the following shall apply: Contractor must submit all claims as defined in and in accordance with the claim resolution process set forth in Section 9204 of the Public Contract Code. Each such claim must be sent to the City by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the claim. All claims must be received prior to acceptance of the work.

The supplier named hereon by the acceptance of this order agrees to the provisions of this document titled "Contract Purchase Agreement" and all accompanying terms, conditions, and attachments.

Roseville Business License No. 842372

Contractor License No. 1057507

DIR Registration No. PW-LR-1000546270

Check mark the applicable company type below:

☒ Corporation

☐ Limited Liability Company

☐ Partnership

☐ Sole Proprietor

*City reserves the right to withhold any payments to Consultant in the event of noncompliance with insurance requirements or if required by law.
Information Technology T&C
REV 5/3/18 JS*

**ATTACHMENT A
HUMAN RESOURCES/RISK MANAGEMENT DIVISION
INSURANCE REQUIREMENTS
AGREEMENT OVER FORMAL BID LIMIT OR INVOLVING HIGH RISK ACTIVITIES**

General - Required Coverage/Documentation

- General Liability: \$1 Million per occurrence /\$2 Million aggregate
- Automobile Liability: \$1 Million combined single limit
- Workers' Compensation: Statutory *Must provide a Waiver of subrogation
- Additional Insured Endorsement (AIE) - General Liability policy: CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsement shall cover the City of Roseville, its officers, agents, employees and volunteers as additional insured.
- Policies must be primary and non-contributory
- A 30 day notice of cancellation must be provided
- List certificate holder as: The City of Roseville - Insurance Compliance, PO Box 100085-R1, Duluth, GA 30096

Additional Liability/Insurance Requirements if required by Agreement (and marked below):

Construction: _____

General Liability:
\$2 Million/occurrence
\$4 Million aggregate

Design Professional: _____

General Liability:
\$2 Million/occurrence
\$4 Million aggregate
Professional Liability:
\$2 Million/occurrence

Professional Consultant: _____

Professional Liability:
\$1 Million/occurrence

IT Services: _____ **X** _____

Professional Liability:
\$1 Million/occurrence
No auto required

Hazardous Materials: _____

Pollution Liability:
\$1 Million/occurrence

Special Events/Caterers-Vendors: _____

No auto required
No workers' comp required

Professional Counseling/ Psychological: _____

Professional Liability:
\$1 Million/occurrence
No auto required

Pyrotechnics:_____

General Liability:
\$5 Million/occurrence
\$10 Million aggregate
Auto - \$2 Million/occurrence

Chemical/Environmental:_____

General Liability:
\$3 Million/occurrence
\$6 Million aggregate
Pollution – \$2 Million/Occurrence
Auto - \$2 Million/Occurrence

Insurance Submission Process

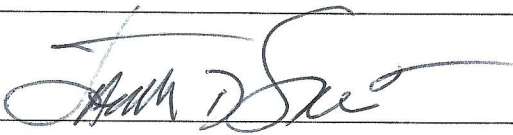
The City of Roseville Human Resources/Risk Management Department uses a service called EBIX to manage our insurance certificate tracking.

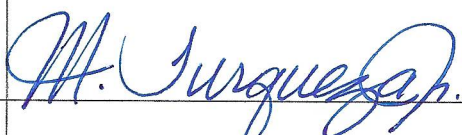
How It Works

- The vendor's contact information is entered into EBIX. EBIX will contact the vendor to request proof of insurance.
- The Vendor can forward the request to their Insurance Agent(s) if necessary.
- Vendor/Insurance Agent submits insurance to EBIX by email to roseville@ebix.com or by fax to (770) 325-5727. After faxing or emailing the certificate, please DO NOT send the certificate by mail to EBIX. Please do not mail, email or fax any certificates to the City of Roseville.
- Once submitted, EBIX reviews the insurance documentation. If there are deficiencies, EBIX will send a follow up letter or email requesting additional information.

Questions Regarding Insurance Submission: Contact EBIX at (951) 652-4239

Questions Regarding Insurance Requirements Contact Risk Management at (916) 774-5202

Supplier	
Signature:	
Print Name:	JAMES D. SILKE
Title:	President

Supplier	
Signature:	
Print Name:	Max Turqueza
Title:	CFO

City of Roseville, A Municipal Corporation	
Signature:	
Print Name:	Dominick Casey
Title:	City Manager

VHF and On Call Services SOW

City of Roseville On Call Service Services, VHF

Silke Communications will provide radio communications on call services for The City of Roseville's VHF communications system. These services include, but are not limited to,

1. Annual preventative maintenance on VHF System Equipment.
2. Scheduled and on call repair services to VHF transmitters & receivers.
3. Scheduled and on call repair services to UHF link station.
4. Scheduled and on call repair services to voter equipment.
5. Scheduled and on call repair services for VHF to dispatch interface equipment.
6. Scheduled and on call repair services for the VHF simulcast system equipment.
7. Scheduled and on call repair services for Fire Station VHF radios and ring down equipment.
8. Other VHF radio services as requested by the City of Roseville.

City of Roseville Service Call Out Procedures

City of Roseville On Call Service Call Out Procedures

An authorized member of City of Roseville will initiate a Radio Service Call Our Procedure. As of Q1-2020 the following members of City of Roseville are approved to initiate a radio service call out:

- Karl Grover
- Paul Ruiz

Normal Business Hours:

Call the West Sacramento Shop at 916-245-6555

After Business Hours:

Call the main toll free Silke number and select the "California Technician on Call" at 855-GoSilke (855-467-4553)

Service Request:

Who: Identify yourself as a City of Roseville member.

What: Quick report on what the problem is.

Where: Quick report on where the problem is.

When: Quick report on when the failure was noticed or occurred

Point person and call back number: Who should we work with (if other than the reporting person) for resolution and their contact number?

This call gets the process rolling with the Silke Com Team. We will initiate our call out tree to ensure the best and closest resource will be responding to the problem.

Then, if possible, please have the reporting person follow up with an email to SacSupport@silkecom.com with any additional information, cell phone pictures, additional information, etc.



Hourly rates for On Call Service

Field Technician during normal business hours	\$145 an hour
System Technician during normal business hours	\$225 an hour

After hour rates are at 1.5 times normal hourly rates.

The Field Technician rate is applicable to tasks such as radio & antenna installation, repeater/voter equipment installation, radio program loading, basic troubleshooting (coax, SWR, physical wire connections), radio system clean up (tracing coax and wires, labeling, connectors, grounding), voter connections down and similar tasks.

The Systems Technician rate is applicable when a technician is actively working on "the system". Tasks such as programming the comparators and voters, tuning combiners, troubleshooting complex problems (voter is down and does not come back up after standard phone line troubleshooting).

The same technician can bill at both rates on the same call out, based on the task they are performing.



November 18, 2019

City of Roseville Fire Department
316 Vernon Street #480
Roseville, CA. 95678

Dear Roseville Fire Department.,

Thank you for the continued opportunity to serve as a communications resource for your operations. Silke Communications stands behind our workmanship and the product we represent and install. However, Silke Communications will not warranty any service, work or installation we have provided in the past that is still under warranty, if a non-Silke technician has performed work on that system. Limited exceptions are made for City of Roseville Fleet Technicians that have been trained by Silke Communications and stay within the approved scope of work. For radio and communications hardware and other physical material we have installed, we cannot provide warranty service, either manufactures' or out extended warranty is a non-Silke technician has worked on the system, beyond standard user accessible options.

Sincerely,


The handwritten signature of David C Jones is written in black ink over the Silke Communications logo. The logo consists of a red square icon with white curved lines, followed by the word "SILKE" in a bold, dark grey sans-serif font, and the word "COMMUNICATIONS" in a smaller, all-caps, dark grey sans-serif font below it.

David C Jones | Communications Specialist | Washington | California | Oregon | 916-245-6555 office
| 916-708-6388 mobile | www.silkecom.com
1050 Riverside Pkwy, Suite 110, West Sacramento, CA. 95605

WASHINGTON  OREGON  CALIFORNIA

www.silkecom.com | 855.GO.SILKE

Let us help you to Talk



COUNCIL COMMUNICATION

CC #: 0735
File #: 0203-12

Title: Personal Protective Equipment - Purchase Order
Contact: Brian Diemer 916-746-1392 bdiemer@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.6.

RECOMMENDATION TO COUNCIL

Staff recommends Council approve the purchase of Personal Protective Equipment (PPE) from Lion Corporation, through the use of the Master Price Agreement as a qualified government member (M-5690891) of National Purchasing Partners (NPPGOV) under Oregon Chapter 190 (Contract #PS16008). This is a publicly solicited contract established through a Request For Proposals process conducted by a lead public agency.

BACKGROUND

Staff requests authorization to purchase personal protective equipment from Lion utilizing their authorized reseller, Allstar Fire Equipment until June 14, 2020. The total purchase for FY2019-20 will not exceed \$75,000. Section 4.12.105 of the Roseville Municipal Code authorizes the Purchasing Officer to use cooperative contracts.

The Fire Department has an ongoing requirement to maintain proper personal protective equipment (PPE) for operations staff. The PPE requirements and recommendations are outlined in guides from National Fire Protection Association and Occupational Safety and Health Administration regulations. This includes a life span of ten years for structural turnout clothing.

The structural turnout clothing (PPE) is used by fire and rescue personnel when fighting fires, responding to vehicle accidents, and when incidents such as gas leaks occur. The clothing provides protection from heat, steam, blood borne pathogens, falling objects, and provides for visibility/identification. It is imperative that this equipment is in good working order at all times. Every firefighter is assigned two sets of structural turnouts clothing (PPE) to allow for cleaning, inspections, and repair. As new staff are hired, new sets need to be purchased for those individuals.

FISCAL IMPACT

The total purchase for FY2019-20 will not exceed \$75,000 which is included as part of the Fire

Department's approved annual budget.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. The purchase of personal protective equipment meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Brian Diemer, Assistant Fire Chief

Rick Bartee, Fire Chief



Dominick Casey, City Manager



COUNCIL COMMUNICATION

CC #: 0721
File #: 0203-07

Title: Power Plant Control System Hardware - Purchase Order
Contact: Nathan Ribordy 916-746-1673 nribordy@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.7.

RECOMMENDATION TO COUNCIL

Staff recommends City Council approve a purchase order with Emerson Process Management for the purchase of standardized equipment not to exceed \$270,000.

BACKGROUND

The Roseville Energy Park (REP) utilizes Emerson's Ovation Distributed Control System (DCS) to control plant processes. The DCS system is comprised of a server, field devices, operator and engineering work stations, and various networking hardware. While the field devices are anticipated to last in excess of twenty years, the server and workstations have a similar life cycle to that of a standard computer. Recently the REP has experienced minor equipment failure in these systems, indicating that an upgrade to more modern software and hardware is due.

Emerson supports life cycle upgrades through their Evergreen program that is intended to replace workstations, servers, improved control methodologies, and provide incremental improvements to networking hardware. In addition to the physical upgrades the REP will benefit from having the latest in control network security technology. Due to the REP having standardized on the Emerson DCS, they are uniquely qualified to provide this upgrade service. This will be the second such upgrade at the REP since it went online in 2007.

FISCAL IMPACT

The not-to-exceed cost for this hardware is \$270,000. Funding is included in the Electric Department's FY2019-20 capital budget.

ENVIRONMENTAL REVIEW

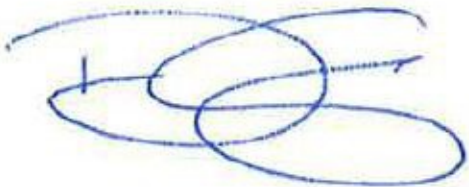
The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines

§15060(c)(3) and §15378. The purchase of control system hardware for use at the Roseville Energy Park meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Nathan Ribordy, Senior Power Plant Engineer

Michelle Bertolino, Electric Utility Director

A handwritten signature in blue ink, appearing to be 'D. Casey', with a stylized, overlapping loop structure.

Dominick Casey, City Manager

ATTACHMENTS:

Description



COUNCIL COMMUNICATION

CC #: 0738
File #: 0203-07

Title: Utility Tree Trimming – Service Agreement Amendment
Contact: Jeff Beaubier 916-774-5611 jbeaubier@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.8.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt a resolution authorizing the City Manager to execute Amendment No. 1 to Service Agreement S2003015 with Utility Tree Service, LLC. to continue providing high voltage line tree trimming services on an as-needed basis.

BACKGROUND

Utility Tree Service, LLC is the contracted tree trimming service provider for Roseville Electric to meet State-required compliance mandates, and construction and maintenance needs for high voltage electric line clearance trimming. The California Public Utilities Commission (CPUC) General Order 95, Rule 35 Vegetation Management, requires electric utilities to have an active high voltage tree trimming program to maintain the minimum clearance requirements for distances of trees or vegetation from energized lines.

The California legislature recently passed S.B. 247 that significantly increased vegetation management labor rates in the state, effective Jan 1, 2020, resulting in significant increased costs. As a result, available funds are expected to be exhausted prior to the end of the fiscal year. Additional contract funding is necessary to retain required service levels per the State mandate and to maintain tree trimming services for public safety at new, increased rates.

FISCAL IMPACT

This amendment increases agreement funding by \$170,000 bringing the total annual amount from \$546,976.34 to \$716,976.34. Funding is available in the FY2019-20 Electric Department budget.

ENVIRONMENTAL REVIEW

The proposed project involves minor alteration in the condition of the land, water, and or vegetation which will not remove healthy, mature scenic trees. The project is limited to tree trimming for power line clearance and does not include tree removal, therefore this activity is categorically exempt from CEQA as a Class 4 Exemption (State CEQA Guidelines Section 15304). The Exemption

has been prepared and no further CEQA action is required.

Respectfully Submitted,

Jeff Beaubier, Electric Operations Supervisor

Michelle Bertolino, Utility Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-127

Service Agreement Amendment

RESOLUTION NO. 20-127

APPROVING AMENDMENT NO. 1 TO SERVICE AGREEMENT
BETWEEN CITY OF ROSEVILLE AND UTILITY TREE SERVICE, LLC, AND
AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF
THE CITY OF ROSEVILLE

WHEREAS, Amendment No. 1 to Service Agreement (S2003015), regarding utility tree trimming services, between the City of Roseville and Utility Tree Service, LLC, has been reviewed by the Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said Amendment No. 1 to Service Agreement is approved and the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



PURCHASING
CITY OF ROSEVILLE

2005 HILLTOP CIRCLE, ROSEVILLE, CA 95747
(916) 774-5720 • TDD (916) 774-5220 • FAX (916) 774-5736

**SERVICE AGREEMENT
AMENDMENT**

SERVICE AGREEMENT No: S2003015
AMENDMENT No.: 1

SERVICE LOCATION: As Directed

Contractor No.: V39630

SUBMIT ALL INVOICES TO:
CITY OF ROSEVILLE
Finance Department
311 Vernon Street
Roseville, CA 95678

Contractor License No.:
Business License No.:

Telephone No.: (209) 931-8174

Department: Electric

Contractor: UTILITY TREE SERVICE, LLC
ATTN: MARC SALVATORE
1237 DOKER DRIVE
MODESTO, CA 95351
msalvatore@utilitytreeservice.com

Acct. Code: 08614-5100/686593-30

Buyer: Babette Owens
Phone: (916) 774-5704

Service Agreement Number S2003015 ("Agreement"), which was executed on 6/17/19, is hereby modified as follows:

The Total Cost of Service payable under this Agreement is modified from \$546,976.34 TO \$716,976.34. The purpose of this modification is to cover the increase in wage rates for utility tree trimmers due to a new law that went into effect on January 2020.

All other provisions of the Agreement shall remain unchanged and in full force and effect.

CONTRACTOR: Utility Tree Service, LLC

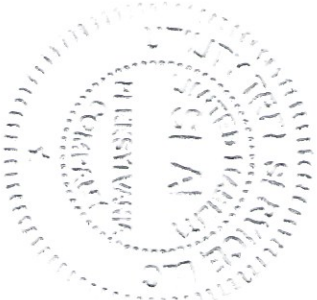
By: James M. Hines
Title: President

By: _____

Title: _____

CITY OF ROSEVILLE,
A MUNICIPAL CORPORATION:

By: Dominic Casey, City Manager





COUNCIL COMMUNICATION

CC #: 0734
File #: 0900-03

Title: Industrial and Fiddymment Substation Civil Construction - Approval of Plans and Specifications and Authorization to Call for Bids
Contact: Chris Porter 916-774-5615 cporter@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.9.

RECOMMENDATION TO COUNCIL

Staff is recommending that City Council approve the plans and specifications and authorize staff to advertise the Industrial and Fiddymment Substation Civil Construction project to call for bids.

BACKGROUND

This project is for civil construction at two substations: Industrial and Fiddymment. The construction work at Industrial Substation is required for the replacement of the existing switchgear that has reached its end of life. Replacement of this equipment is necessary to maintain system reliability.

The construction work at Fiddymment Substation is necessary to support the installation of a new 230/60kV transformer. This will be the fourth transformer of its kind in the system and is being installed to increase system redundancy and reliability. These transformers are critical in supplying electricity to the City.

FISCAL IMPACT

This total project cost is estimated at \$400,000. Funding is included in the Electric Department FY2019-20 budget.

ENVIRONMENTAL REVIEW

The proposed work of the Industrial Substation 12kV Switchgear #2 Replacement project involves the replacement of existing structures and facilities. This activity is categorically exempt from CEQA as a Class 2 Exemption (State CEQA Guidelines Section 15302). The Exemption has been prepared and no further CEQA action is required.

The proposed work of the Fiddymment Substation Transformer Addition is an action that is subject to CEQA. Project level CEQA compliance for the Fiddymment Substation Transformer Addition

was accomplished with the preparation of the Fiddymont Substation 230/60-kV Circuit Breaker Initial Study/Negative Declaration (Adopted: January 8, 2003). Because the Fiddymont Substation Transformer Addition project is consistent with the project evaluated in the Fiddymont Substation 230/60-kV Circuit Breaker Initial Study/Negative Declaration, no new effects would be expected to occur and all applicable mitigation measures from the Fiddymont Substation 230/60-kV Circuit Breaker Initial Study/Negative Declaration will be implemented. As such, no additional CEQA action is required at this time.

Respectfully Submitted,

Chris Porter, Senior Power Engineer

Michelle Bertolino, Electric Utility Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Industrial & Fiddymont Project Manual



Buildings & Grounds Project Manual

Name of project:

Industrial Substation 12kV Switchgear Replacement and Fiddymont
Substation Transformer Addition

Department:

Electric

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CITY OF ROSEVILLE
DEPARTMENT OF ELECTRIC

Industrial Substation 12kV Switchgear Replacement and Fiddymment Substation Transformer
Addition Project

NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN THAT sealed Proposals will be received at the Office of the City Clerk, 311 Vernon Street, Roseville, California, until June 2, 2020 at 3:00 p.m. Late Proposals will be rejected. No exceptions.

The Proposals will be publicly opened and read by the City Clerk or designee of the City of Roseville at 3:05 p.m. on June 2, 2020 at the Office of the City Clerk located at 311 Vernon Street, Roseville California for the following project: Industrial Substation 12kV Switchgear Replacement and Fiddymment Substation Transformer Addition Project.

A pre-bid meeting will be held per the instructions listed on the Public Purchase at <https://www.publicpurchase.com>.

A Project Manual, including all Contract Documents and the Proposal forms for bidding this project, may be obtained on-line from the City of Roseville's website at https://www.roseville.ca.us/business/procurement_services/bids_rfps. All communications relative to this project shall be conducted through Public Purchase.

Bids shall be submitted on the City's Proposal Forms included in the Project Manual, plainly endorsed with the Bidder's name together with signed acknowledgement of any and all addenda. Proposal Forms shall be securely sealed in a suitable envelope marked with the name

and address of the Bidder, and marked in capital letters on the front and back of the envelope as follows:

**INDUSTRIAL SUBSTATION 12KV SWITCHGEAR REPLACEMENT AND
FIDDYMENT SUBSTATION TRANSFORMER ADDITION PROJECT**

(Name of Bidder)

(Address of Bidder)

Whether mailed or personally delivered, all bids shall be addressed to the City of Roseville, Office of the City Clerk, 311 Vernon Street, Roseville, California, 95678.

Each bid must be accompanied by a Bid Guaranty in the form of a Certificate of Deposit, Certified or Cashier's Check, Bidder's Bond or Irrevocable Standby Letter of Credit in an amount equal to at least ten percent (10%) of the Bidder's Grand Total Price. The Bid Guaranty will be retained by the City and applied to any and all damages sustained by the City in the event that the successful Bidder fails or refuses to enter into the Contract awarded to it and to furnish all required bonds and Certificates of Insurance. The City intends to award the Contract to the lowest responsible Bidder based on the Grand Total Bid Price for all components of the Project. To the extent allowed by law, the City reserves the right to reject any and all bids and/or to waive any irregularities or informalities in any bid or in the bidding procedure. The City specifically reserves the right to not award the Contract after the opening of bids.

Any bid may be withdrawn at any time prior to the time fixed in the public notice for the deadline submission of bids only by written request for the withdrawal of the bid filed with the City Clerk. The request shall be executed by the Bidder or his or her duly authorized representative. The withdrawal of a bid does not prejudice the right of the Bidder to file a new

bid by the submission deadline. Whether or not bids are opened exactly at the time fixed in the public notice for opening bids, a bid will not be received after the deadline submission of bids nor may any bid be withdrawn after the time fixed in the public notice for deadline for submission of bids. Immediately following the deadline for submission of bids all bids shall become the property of the City of Roseville and the City is under no obligation to return bids.

Bids will be examined and reported to the City Council within sixty (60) business days after the bid opening. Except as permitted by applicable law, no Bidder may withdraw its bid for a period of sixty (60) business days after the date of bid opening. Each Bidder will be notified of any award of the Contract by the City.

The City will affirmatively ensure non-discrimination on the basis of one or more of the following: race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, age, sexual orientation, or military and veteran status in the award and administration of contracts that it awards.

Pursuant to Public Contract Code Section 22300, the successful Bidder may submit certain securities in lieu of the City withholding retention of payments during the Project.

The City has determined that the Contractor shall possess a valid Class A, General Engineering Contractor's license at the time that the bid is submitted, as well as any other license classification as may be required by the laws of the California for the performance of the work specified in the Contract Documents. Said license shall be maintained during the Contract period. Failure to possess the specified license shall render the bid nonresponsive and will act as a bar to the award of the Contract to any Bidder not possessing such a license at the time of bid submittal. The Contractor shall provide certification of the license, its number and the expiration date on the proposal form.

The work is to be done in Placer County. Pursuant to California Labor Code Section 1773, the City has ascertained the General Prevailing Rate of Wages in the County in which the work is to be done to be as determined by the Director of Industrial Relations of the State of California. The Contractor is hereby made aware that information regarding prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>. The Contractor is required to post a copy of the applicable wage rates at the job site. Attention is directed to Section 5 “Legal Relations and Responsibility” of the General Conditions.

Pursuant to Labor Code Section 1771.1(b), notice is hereby given that a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in Labor Code Sections 1720, et seq., unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5 or exempt from registration requirements pursuant to Labor Code Section 1725.5(f). It is not a violation of Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform work pursuant to Labor Code Section 1725.5 at the time the contract is awarded or is exempt from registration requirements pursuant to Labor Code Section 1725.5(f). The Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

All questions prior to the deadline for bid submissions shall be directed to Public Purchase at <https://www.publicpurchase.com> The deadline for submissions of questions and

clarifications regarding the Contract Documents is seven (7) calendar days before the deadline for bid submissions. Only Addenda issued by the City are binding.

City Clerk, City of Roseville

Dated: _____

Published: _____

INSTRUCTIONS TO BIDDERS

SECTION 1. GENERAL

1-1.01 **GENERAL.** These Instructions to Bidders form a part of the Contract Documents. Capitalized terms are defined in the General Conditions Section 1.

1-1.02 **EXAMINATION OF PLANS, CONTRACT DOCUMENTS AND SITE OF THE WORK.** The Bidder shall examine carefully the site of the Work and all the Contract Documents, including these Instructions to Bidders, and shall inform itself of the conditions relating to the execution of the Work. Failure to do so will not relieve the successful Bidder of its obligation to enter into an Agreement and complete the Work in strict accordance with the Contract Documents. Conditions relating to the execution of the Work include the requirements of federal, state, and local laws, statutes and ordinances relative to the execution of Work, including, but not limited to, applicable regulations concerning prevailing wage rates, non-discrimination in the employment of labor, protection of the public, employee health and safety, and environmental protection.

The submission of a bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work to be performed, the quantities of materials to be furnished, and as to the requirements of all the Contract Documents.

1-1.03 **EXISTING INFORMATION.** Where the Department has made investigations of site conditions, including subsurface conditions in areas where Work is to be performed under the Contract, such investigations are made only for the purpose of study and design. City does not represent that such conditions as found in these investigations or inferences or conclusions drawn as a result of these investigations will represent actual site

conditions and hereby disclaims any liability as a result of Contractor's or Bidder's reliance on such investigations. City will presume that all Bidders have conducted their own site investigations, including investigations of subsurface conditions. Where such investigations have been made, Bidders or Contractors may, upon written request, inspect the records of the Department as to such investigations subject to the conditions set forth in these Instructions to Bidders. Such inspection of records may be made only at the location noted above. The records of such investigations are not a part of the Contract Documents and are shown solely for the convenience of the Bidder or Contractor. The City assumes no responsibility whatsoever with respect to the sufficiency or accuracy of the investigations made, the records thereof, or of the interpretations set forth therein or made by the City in its use thereof. The City makes no warranty or guarantee, either express or implied, that the conditions indicated by such investigations or records are representative of those existing throughout such areas, or any part thereof, or that unforeseen developments may not occur, or that materials other than, or in proportions different from those indicated, may not be encountered.

No information derived from such inspection of records of investigations or compilation thereof made by the City, the Department or from the Engineer, or his or her assistants, will in any way relieve the Bidder or Contractor from properly examining the site and making such additional investigations as it may elect, or from properly fulfilling the terms of the Contract.

SECTION 2: BID REQUIREMENTS

2-1.01 **PROPOSAL FORMS.** The Department will furnish to each Bidder standard Proposal Forms, which, when filled out and executed may be submitted as the bid. Proposals shall include all pages in the Project Manual with page numbers marked “PROP” plus the Addendum acknowledgment form (front sheet) from all Addenda received by the Bidder. Proposals shall be removed from the Project Manual. The full Project Manual shall not be submitted with the proposal. Bids not presented on forms so furnished will be disregarded.

The Proposal and one (1) copy thereof shall be submitted as directed in the “Notice to Contractors” under sealed cover plainly marked as a Proposal, and identifying the project to which the Proposal relates and the date of the bid opening therefor. Proposals which are not properly marked may be disregarded.

All blank spaces in the Proposal must be completed, as required, in ink. All price information shall be shown, clearly legible, in figures where required.

The Bidder shall sign the Proposal in the blank space provided therefor. If the Bidder is the sole owner, the Proposal shall be signed by the owner. If the Bidder is a corporation, the legal name of the corporation and its State of incorporation shall be set forth and the Proposal shall be signed by at least two officers authorized to sign contracts on behalf of the corporation. If the Bidder is a partnership, the true name of the firm shall be set forth, the names and addresses of all partners shall be given and the Proposal shall be signed by a partner in the firm authorized to sign contracts on behalf of the partnership. If the Bidder is a joint venture, the Proposal shall be signed on behalf of each participating company by officers or other individuals who have the full and proper authorization to do so. If the Proposal is signed by an agent of the Bidder other than an officer of a corporation or a member of a partnership, a notarized Power of

Attorney must be on file with the City prior to opening of bids or must be submitted with the Proposal. If requested by the City, the Bidder shall promptly submit evidence satisfactory to the City of the authority of the person signing the Proposal.

2-1.02 **SUBMISSION OF BIDS.** Bids must be submitted at the prescribed time and location specified in the Notice to Contractors. Any submission received after the prescribed time shall be rejected, regardless of whether or not bids are opened exactly at the prescribed time.

Any unauthorized conditions or qualifications entered on, or changes made to, the Proposal may render it invalid and may cause its rejection.

No telegraphic, telephonic, or facsimile or other electronically transmitted bids will be considered.

2-1.03 **REQUIRED LISTING OF PROPOSED SUBCONTRACTORS.** Each Proposal shall list the name, address and Contractor license number of each Subcontractor to whom the Bidder proposes to subcontract portions of the Work in an amount in excess of one-half of one percent (0.5%) of its total bid, in accordance with Section 4100 to 4114, inclusive, of the Public Contract Code for the State of California. The Bidder shall list the Subcontractor's license number and the portion of the Work that will be done by each Subcontractor. If the Bidder fails to specify a Subcontractor for any portion of the Work, the Bidder agrees to perform that portion of the Work itself, and represents that it is qualified to perform that portion of the Work itself. The Bidder's attention is invited to other provisions of the Public Contract Code related to the imposition of penalties for a failure to observe its provisions by using unauthorized Subcontractors or by making unauthorized substitutions.

2-1.04 **CONTRACTOR'S LICENSING LAWS.** Attention is directed to the

provisions of Business and Professions Code Chapter 9 of Division 3 concerning the licensing of Contractors.

All Bidders at the time of bid submittal shall be licensed as Contractors in accordance with the laws of this State. Any Bidder or Contractor not so licensed is subject to the penalties imposed by such laws. The form of Contractor's license required is stated in the Notice to Contractors, provided that the City makes no representation as to whether the State may require other or additional licenses. It is the Bidder's and Contractor's responsibility to obtain the correct Contractor's licenses. Bidders shall be skilled and regularly engaged in the general class or type of Work called for under this Contract.

All Bidders and Contractors, including Subcontractors, shall have a current City business license before undertaking any Work.

2-1.05 **NONCOLLUSION DECLARATION.** By submitting a bid, the Bidder represents and warrants that such bid is genuine and not a sham or collusive or made in the interest or on the behalf of any person therein named, and that the Bidder has not, directly or indirectly, included or solicited any other Bidder to put in a sham bid, or any other person, firm, or corporation to refrain from bidding, and that the Bidder has not in any manner sought collusion to secure the Bidder an advantage over any other Bidder.

Bidders shall submit a properly completed and executed "Noncollusion Declaration" in the form required by Public Contract Code Section 7106 and provided with the Proposal (PROP-11).

2-1.06 **DISQUALIFICATION, REMOVAL OR OTHER PREVENTION OF BIDDING.** A bid may be rejected on the basis of a Bidder, any officer of such Bidder, or any employee of such Bidder who has a proprietary interest in such Bidder, having been disqualified,

removed, or otherwise prevented from bidding on, or completing a federal, state, or local project because of a violation of law or a safety regulation.

2-1.07 **PROPOSAL GUARANTY.** All bids shall be accompanied by one of the following forms of Bidder's security: Cash, a cashier's check, a certified check, or a Bidder's bond executed by an admitted California surety insurer, made payable to the City of Roseville, or any other form of security deemed acceptable by the City Attorney. The security shall be in an amount equal to at least ten percent (10%) of the amount bid. A bid will not be considered unless one of the form of Bidder's security is enclosed with it.

A Bidder's bond shall conform to the City's bond form in the Proposal and shall be properly filled out and executed.

2-1.08 **SCHEDULE OF BID PRICES.** Bidders are directed to submit unit and lump sum prices for all Work set forth in the Contract Documents on the Proposal Form entitled "Schedule of Bid Prices."

Unit prices and lump sum prices, as indicated, must be entered in the appropriate spaces provided in the Schedule of Bid Prices. If applicable, unit prices shall be multiplied by the quantities shown, and the total shall be inserted in the Amount column. In the event of any error or discrepancy between the unit price and the calculated amount, the unit prices shall govern.

The City may correct any mathematical errors apparent on the face of the bid.

The amounts shown in the Amount column must be added together in arriving at the Grand Total Bid Price.

Amounts for Allowance bid items must be entered in the exact amount in the Amount column.

The prices included within the Schedule of Bid Prices shall include all costs for labor,

materials, tools, equipment, services, Subcontractors, suppliers, taxes, insurance, shipment, delivery, overhead, profit, and all other costs necessary to perform the Work in accordance with the Contract Documents.

The Grand Total Bid Price shall be indicated in the Summary table form included with the Schedule of Bid Prices. The Grand Total Bid Price shall be the sum of the amounts bid for each of the designated portions of the Work, as more specifically described on the Schedule of Bid Prices form itself.

Full compensation for complying with the Contract Documents, including requirements of the Standard Specifications, the General Conditions, Supplemental Conditions, and all warranties, shall be considered included in the bid items and no additional compensation shall be allowed therefor.

Full compensation for completion of all work as shown on the plans, as specified in the Specifications, and as directed by the City, shall be considered included in the bid items and no additional compensation shall be allowed.

Bidders are strongly discouraged from submitting unbalanced bids. As used herein, the term “unbalanced bid” is defined as any bid that does not include a reasonable proportionate allocation of indirect costs and profit of each bid item indicated in the Schedule of Bid Prices. The City reserves the right to reject any unbalanced bid if the City determines that there is a reasonable doubt that an acceptance of the bid will not result in the lowest ultimate cost to the City with regard to the work or a disproportionate distribution of contract funds.

The City reserves the right to delete any bid item in its entirety and/or significantly reduce the quantity of Work under a bid item. The City makes no representation that any Work under a bid item will be performed during the course of the Project or that the Work will be

performed at the quantities included in the Schedule of Bid Prices. As provided in the General Conditions, for any deleted Work, Contractor shall not be entitled to payment of the indirect costs and profit included for said bid item. All bid items shall be considered distinct and severable from the remaining bid items, and each Bidder acts at its peril if its bid is unbalanced.

The City shall compare bids on the basis of the Grand Total Bid Price, which includes the base bid and any alternates designated on the Schedule of Bid Prices. Alternates may or may not be awarded, or may be awarded in any combination, at the City's discretion.

2-1.09 **WITHDRAWAL OF PROPOSALS.** Any bid may be withdrawn at any time prior to the time fixed in the Notice to Contractors for the opening of bids, provided that a request in writing, executed by the Bidder or its duly authorized representative, for the withdrawal of such bid is filed with the City Clerk. Facsimile and electronic mail requests are not acceptable. The withdrawal of a bid shall not prejudice the right of a Bidder to file a new bid. The withdrawal of any bid after the time fixed in the Notice to Contractors for the opening of bids will not be permitted.

2-1.10 **ADDENDUM.** Proposals shall include all costs and account for all Addenda issued prior to opening of bids. The Bidder is responsible for verifying that all issued Addenda have been received. An Addendum acknowledgment form for each Addendum shall be included as part of the Proposal submittal.

2-1.11 **PUBLIC OPENING OF PROPOSALS.** Proposals will be publicly opened and read at the time and place indicated in the Notice to Contractors. Bidders or their authorized agents are invited to be present.

2-1.12 **TRENCHING AND EXCAVATION WORK.** In accordance with the provisions of California Labor Code Section 6707, if the Work involves construction of a

pipeline, sewer, sewage disposal system, boring or jacking pits, or similar trenches or open excavations, which are five feet (5') or deeper, each bid submitted shall contain, as a bid item, adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life or limb, which shall conform to all applicable safety orders.

SECTION 3: EVALUATION OF BIDS

3-1.01 **BID EVALUATION PROCESS.** Bids will be evaluated to determine the apparent low Bidder. The apparent low Bidder will be determined on the basis of the Grand Total Bid Price, as shown in the Schedule of Bid Prices. If additive or deductive alternates are used in the Schedule of Bid Prices, the apparent low Bidder will be the Bidder with the lowest total of the bid prices for base contract items plus the alternates designated by the City as those that will be used for determining the lowest bid price. However, the City reserves the right to (1) not award any alternates or (2) award any combination of alternates.

In case of discrepancy between the total of the base contract items and any specified alternates and the stated Grand Total Bid Price, the total of the base contract items plus specified alternates shall prevail. Any mathematical errors that appear on the face of the bid will be corrected by the City and the City will use the mathematically corrected addition. For example, if the mathematical total of Bidder's base contract items plus specified alternates equals \$1,000,000, but the Bidder has written \$1,250,000 as the Grand Total Bid Price, the City will consider \$1,000,000 to be the Bidder's Grand Total Bid Price for purposes of comparison to other Bidders and actual bid award. The City reserves its rights to reject or accept bids based on discrepancies between the stated Grand Total Bid Price and the actual mathematical total of the base contract bid items, plus specified alternates.

3-1.02 **REJECTION OF IRREGULAR PROPOSALS.** Proposals may be rejected in the City's sole discretion if they show any alterations of form, additions not called for, conditional bids, incomplete bids, erasures, or irregularities of any kind. However, the City reserves the right to waive any minor irregularities and informalities in any bid or in the bid procedure for any reason.

3-1.03 **COMPETITIVE BIDDING.** If more than one proposal is offered by any individual, firm, partnership, corporation, association, or any combination thereof, under the same or different names, all such proposals may be rejected. A party who has quoted prices on materials or Work to a Bidder is not thereby disqualified from quoting prices to other Bidders, or from submitting a bid directly for the materials or Work.

All Bidders are put on notice that any collusive agreement to control or affect the awarding of this Contract is in violation of the competitive bidding requirements of the City Charter, State Contract Act and the Business and Professions Code and may render void any Contract let under such circumstances.

3-1.04 **RELIEF OF BIDDERS.** If the Bidder claims a mistake was made in its bid, the Bidder shall give the Department written notice within five (5) Days after the opening of the bids of the alleged mistake, specifying in the notice in detail how the mistake occurred. No relief from a claimed mistaken bid shall be granted unless such mistake clearly appears on the face of the bid submitted to the City. Claimed mistakes on backup worksheets, spreadsheets, computerized bidding programs, or any other similar calculative bidding mistake which is not apparent on the face of the bid shall not under any circumstance be considered as a basis for relief. The burden of proving the occurrence of a mistake entitling a Bidder to relief from its bid rests entirely on the Bidder. Relief from bids shall be in the City's sole discretion.

SECTION 4: AWARD AND EXECUTION OF CONTRACT

4-1.01 **AWARD OF CONTRACT.** The City reserves the right to reject any and all proposals and to award (or not award) any combination of bid items at its option. Any such award will be to the lowest responsible Bidder whose proposal complies with the requirements prescribed for the bid items awarded. Such award, if made, will be made within sixty (60) business days after the opening of the proposals. If the lowest responsible Bidder refuses or fails to execute the Contract, or provide an acceptable Performance Bond, Payment Bond, and insurance certificate(s), the City may award the Contract to the second lowest responsible Bidder. Such award, if made, will be made within eighty-two (82) business days after the opening of proposals. If the second lowest responsible Bidder refuses or fails to execute the Contract, or provide an acceptable Performance Bond, Payment Bond, and insurance certificate(s), the City may award the Contract to the third lowest responsible Bidder. Such award, if made, will be made within one hundred four (104) business days after the opening of the proposals. The above time periods within which the award of Contract may be made are subject to extension for such further period as may be agreed upon in writing between the City and the Bidder concerned.

4-1.02 **RETURN OF BIDDER'S SECURITIES.** Within ten (10) Days after the award of the Contract, the City Clerk will return all Bidders' securities, other than Bidders' bonds, accompanying the proposals that are not to be further considered in making the award. Retained Bidders' securities will be held until the Contract has been fully executed, after which all Bidders' securities, except Bidders' bonds and any Bidders' securities that have been forfeited, will be returned.

4-1.03 **CONTRACT BONDS.** The successful Bidder shall furnish two (2)

bonds in the form contained in the section entitled Insurance Broker Information Packet and Bonds. One (1) bond shall secure the payment of the claims of laborers, mechanics or materialmen employed on the Work under the Contract, and the other bond shall guarantee the faithful performance of the Contract.

Each of the two (2) bonds shall be in a sum equal to one hundred percent (100%) of the Contract Price. If the Contract Price increases by the issuance of Change Orders, the penal amounts of the bonds required shall increase accordingly. Sureties on each of said bonds shall be satisfactory to the City.

All alterations, extensions of time, extra and additional Work, and other changes authorized by the Standard Specifications, the General Conditions, the Supplemental Conditions or any part of the Contract may be made without securing the consent of the surety or sureties on the Contract bonds.

Furthermore, the successful Bidder shall furnish a certificate from the County Clerk as required by California Civil Code of Procedure Section 995.660(a)(3).

4-1.04 **INSURANCE.** At the time of the execution of the Contract, the Contractor shall, at its own expense, procure, and at all times during the prosecution of the Work maintain in full force and effect Worker's Compensation Insurance, and Liability Insurance as specified in the General Conditions. The Contractor shall provide a Certificate of Insurance in the form contained in the section entitled Insurance Broker Information Packet.

4-1.05 **EXECUTION OF CONTRACT.** The Contract shall be signed by the successful Bidder and returned, together with all the required Contract bonds and insurance certificates, within fifteen (15) Days after the Contract has been awarded, or as otherwise directed, in writing, by the City.

If the Bidder is an individual, the Contract shall be executed personally by the Bidder. If the Bidder is a partnership, it is desirable that the Contract be executed by all of the partners, but it may be executed by one of them. If the Bidder is a corporation, it must be executed by two officers of the corporation consisting of (1) the chairman of the board, president or vice president; and (2) the secretary, assistant secretary, chief financial officer, treasurer or assistant treasurer, or by a person authorized by the corporation to execute written contracts on its behalf, and the corporate seal affixed thereto. In the alternative, a person other than an officer may sign the Contract, provided evidence satisfactory to the City is provided indicating the individual's authority to bind the corporation. If the corporate seal is not affixed to the Contract, or if it is executed by a person other than officers, or only by one officer, there must be attached to the Contract a certified copy of a resolution of the corporation authorizing such officer or person to execute written contracts for and on behalf of the corporation. If the Bidder is a joint venture, the Contract must be executed on behalf of each participating firm by officers or other individuals who have the full and proper authorization to do so.

4-1.06 **FAILURE TO EXECUTE CONTRACT.** Failure of the lowest responsible Bidder, the second lowest responsible Bidder, or the third lowest responsible Bidder to execute the Contract and file acceptable bonds and insurance as provided within fifteen (15) Days after the Contract has been awarded, or as otherwise directed, in writing, by the City, shall be just cause for annulment of the award and forfeiture of the Bidder's security. The successful Bidder may file with the City Clerk a written notice, signed by the Bidder or Bidder's authorized representative, specifying that the Bidder will refuse to execute the Contract if presented to Bidder. The filing of such notice shall have the same force and effect as the failure of the Bidder to execute the Contract and furnish acceptable bonds within the time prescribed.

SECTION 5: BID PROTEST PROCEDURES

5-1.01 **POLICY/PROCEDURES.** It is the policy of the City to consider fully and adjudicate promptly protests filed by prospective Bidders relating to the City's bidding procedure or award of the Contract. Protests shall be filed and processed in accordance with Section 4.12.150 of the Roseville Municipal Code. A Bidder's failure to follow the bid protest procedures may result in rejection of the protest by the City.

PROPOSAL TO THE DEPARTMENT OF _____

Project:_____

Name of Bidder _____ Business Phone _____

Business Address _____

Place of Business _____

Contractor's License No. _____

License Expiration Date_____

License Classification Type _____

DIR Registration No. _____

Type of business organization: _____

*If a Corporation, incorporated under the laws of the State of: _____

City of Roseville Business License No._____

The undersigned Bidder herewith submits this Proposal and binds itself on award by the City of Roseville under this bid to execute a Contract in accordance with its bid and the Contract Documents.

The Notice to Contractors, Instructions to Bidders, Form of Agreement, Specifications, General Conditions, Supplemental Conditions, Contract Drawings, and Addenda, if any, are made part of this bid and all provisions thereof are hereby accepted, and all representations and warranties are required thereby are hereby affirmed.

The work to be done is described in the Bidding Documents entitled _____
_____, City of Roseville, California.

This offer shall be irrevocable for a period of sixty (60) Days after the date on which bids are opened.

The undersigned Bidder understands that any clarification made to the above or any new and different conditions or information submitted on or with its Proposal, other than that requested, may render the bid non-responsive.

The undersigned, as Bidder, declares that the only persons or parties interested in this Proposal as principals are those named herein; that this Proposal is made without collusion with any other person, firm, or corporation; that the Bidder has carefully examined the location of the proposed Work, the attached Form of Agreement, and the plans, Specifications, and other Contract Documents; and agrees if this Proposal is accepted, that it will contract with the City of Roseville, in the form of a copy of the Agreement contained in the Project Manual, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the Contract Documents, in the manner and time therein prescribed, and according to the requirements of the Director, as therein set forth, and that the Bidder will take in full payment therefore prices indicated in the Schedule of Bid Items, including all work modified by addendum numbers _____. (IF NONE, STATE NONE).

Bids are required for all Bid Items. The amount of the Bid for comparison purposes will be the total of all items awarded.

The Bidder shall set forth for each item of work, in clearly legible figures, an item (“unit”) price and a total for the item in the respective spaces provided for this purpose in the Schedule of Bid Items.

The prices included within the Schedule of Bid Items include all costs for labor, materials, tools, equipment, services, Subcontractors, suppliers, taxes, insurance, shipment, delivery, overhead, profit, and for all other costs necessary to perform the Work in accordance

with the Contract Documents.

Accompanying this Proposal is _____.

(Notice: Insert the words "Cash \$_____", "Cashier's Check," "Certified Check," or "Bidder's Bond," as the case may be, in an amount equal to at least ten percent (10%) of the total of the Bid.)

The names of all persons interested in the foregoing Proposal as Principals, are as follows: _____

If SOLE OWNER, execute here:

I sign as sole owner of the business named above:

If PARTNERSHIP, one or more partners sign here:

The undersigned certify that we are partners in the business named above and that we sign this bid with the full authority to do so:

If CORPORATION, execute here:

Corporate Name: _____

Incorporated under the laws of the State of _____

The undersigned certify that they sign this bid with the full and proper authorization so to do:

By _____
*Signature of Authorized Official**

By _____
*Signature of Authorized Official**

Title

Title

Typewritten or Printed Name

Typewritten or Printed Name

If JOINT VENTURE, execute here:

Joint Venture name composed of: _____

The undersigned certify that they sign this bid with the full and proper authorization so to do:

*Signature of Authorized Official**

*Signature of Authorized Official**

Title

Title

Typewritten or Printed Name

Typewritten or Printed Name

*If Bidder is a partnership or Joint Venture, give the full names of all partners and/or Joint Ventures in the space provided (use additional sheet if required). If Bidder is a corporation, two signatures are required as follows: (1) the Chairman, President, or Vice-President and (2) the Secretary, Assistant Secretary, Chief Financial Officer, Treasurer, or Assistant Treasurer. In the alternative, this Agreement may be executed by a single officer or a person other than an officer provided that evidence satisfactory to City is provided demonstrating that such individual is authorized to bind the corporation (example, a copy of a certified resolution from the corporation's board or a copy of the corporation's bylaws).

[LIST OF SUBCONTRACTORS FOLLOWS ON NEXT PAGE.]

LIST OF SUBCONTRACTORS

Contractor's Name: _____

The Bidder is required to furnish the following information in accordance with the provisions of Section 4100 and 4114, inclusive, of the Public Contract Code of the State of California. This list and information shall include all Subcontractors that perform work, provide labor or render services to the Bidder in connection with the Project in an amount in excess of one-half of one percent (0.5%) of the total amount of the Bidder Grand Total Price.

PORTION/ TYPE OF WORK	% OF CONTRACT	SUB- CONTRACTOR'S NAME	CONTRACTOR LICENSE NO.	DIR REG NO.	BUSINESS ADDRESS (CITY, STATE)

SECURITY FOR COMPENSATION CERTIFICATE

(Required by California Labor Code Section 1861)

TO: City Council
City of Roseville

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.

(Signature of Bidder)

Business Address

Telephone

BIDDER'S BOND

City Council of the City of Roseville

KNOW ALL MEN BY THESE PRESENTS:

That we _____
_____, as PRINCIPAL, and

a, _____ and duly authorized to transact business
under the laws of the State of California, as SURETY, are held and firmly bound unto the City of
Roseville in the penal sum of _____ dollars
(\$_____), being at least TEN PERCENT (10%) OF THE TOTAL AMOUNT OF
THE BID of the Principal above named, submitted by said Principal to the City of Roseville,
acting by and through the Public Works Director, for the work described below, for the payment
of which sum in lawful money of the United States, well and truly to be made, to the Director of
the Department to which said Bid was submitted, we bind ourselves, our heirs, executors,
administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH,

That whereas the Principal has submitted the above-mentioned Bid to the City Council of
the City of Roseville, as aforesaid, for certain construction specifically described as follows, for
which Bids are to be opened at the Office of the City Clerk located at 311 Vernon Street,
Roseville, California, on _____, 20__ FOR

(Copy here the exact title of work as it appears on the Proposal.)

NOW, THEREFORE, IF THE AFORESAID PRINCIPAL is awarded the Contract and, within the time and manner required under the Contract Documents, after the prescribed forms are presented for signature, enters into a written Contract, in the prescribed form, in accordance with the Bid, and files all insurance and two (2) Bonds with the Department, one (1) to guarantee Faithful Performance and the other to guarantee Payment for Labor and Materials, as required by law, then this obligation shall be null and void; otherwise, it shall be and remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this ____ day of _____, 20__.

_____(Seal)

_____(Seal)

_____(Seal)

Principal

_____(Seal)

_____(Seal)

_____(Seal)

Surety

Business Address

NOTE: To be considered complete, both the Principal and the Surety must sign this Bidder's Bond. In addition, signatures of those executing for the Surety must be properly acknowledged.

BID ITEM	ITEM DESCRIPTION	UNIT	TOTAL AMOUNT (\$)
1	Switchgear pad and all associated work at Industrial Substation	Lump Sum	
2	Transformer pad and all associated work at Fiddymont Substation	Lump Sum	
GRAND TOTAL (Item 1 + 2) (\$)		=	

FIRMS QUALIFICATIONS AND EXPERIENCE FORM

Requirements:

Contractor and its foreman/supervisor assigned for this project must have performed construction projects in at least three electric substations at 60-kV or above, during the last fifteen years.

Foreman/Supervisor Name: _____

Project Name and \$ amount: _____

Project Contact Name and #: _____

Project Location: _____

Project Date and Duration: _____

Project Description: _____

Project Name and \$ amount: _____

Project Contact Name and #: _____

Project Location: _____

Project Date and Duration: _____

Project Description: _____

Project Name and \$ amount: _____

Project Contact Name and #: _____

Project Location: _____

Project Date and Duration: _____

Project Description: _____

NONCOLLUSION DECLARATION TO BE EXECUTED BY
BIDDER AND SUBMITTED WITH BID

The undersigned declares:

I am the _____ of _____, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham bid. The Bidder has not directly or indirectly colluded, conspired, connived, or agreed with any Bidder or anyone else to put in a sham bid, or to refrain from bidding. The Bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the Bidder or any other Bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other Bidder. All statements contained in the bid are true. The Bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a Bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the Bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [date], at _____ [city], _____ [state].

(Signature of Declarant)

DISQUALIFICATION QUESTIONNAIRE

The Bidder shall complete, under the penalty of perjury, the following questionnaire:

Has the Bidder, any officer of the Bidder, or any employee of the Bidder who has proprietary interest in the Bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

Yes_____

No_____

If the answer is yes, explain the circumstances in the following space.

NAME OF BIDDER: _____

SIGNATURE OF BIDDER: _____

TITLE OF BIDDER: _____

DATE: _____

ACKNOWLEDGEMENT OF INSURANCE AND BOND REQUIREMENTS

Included in the Bid Price is full compensation for the requirements set forth in the
INSURANCE BROKER INFORMATION PACKET of the Project Manual.

NAME OF BIDDER: _____

SIGNATURE OF BIDDER: _____

TITLE OF BIDDER: _____

DATE: _____

DISCLAIMER OF WARRANTIES AND ACCURACY OF DATA

Although soil and site investigation reports have been obtained from sources believed to be reliable, no warranty expressed or implied is made regarding accuracy, adequacy, completeness, legality, reliability or usefulness of any information contained therein. These reports are subject to change at any time, may be incomplete, and/or may contain errors. This information is provided for informational purposes only. The City of Roseville provides this information on an "as is" basis. Warranties of any kind, express or implied, or statutory, including but not limited to the implied warranties of merchantability, and fitness for a particular purpose ARE DISCLAIMED to any party viewing these documents or to any third party.

The City of Roseville does not accept and expressly disclaims liability to any party viewing such information, or to any third party whatsoever, for any loss, damage, or injury (including incidental or consequential damages) whether such loss, damage, or injury is the result of negligence, willful or intentional misconduct, or any other cause.

I have read and acknowledged the above disclaimer and agree to hold harmless the City of Roseville on any theory of liability for any loss, damage or injury whether in contract, strict liability or tort arising in any way out of the use or contents of the released information or documents described above or the performance of the work called for herein.

Print Name

Signature

Name of Business/Company/Corporation

Date

Address

Phone

END OF PROPOSAL

PROP - 16

A G R E E M E N T

THIS AGREEMENT, is made and entered into this ____ day of _____,
20____, by and between the City of Roseville, a municipal corporation, ("CITY"), and
_____, a _____,
("CONTRACTOR"); and

W I T N E S E T H:

WHEREAS, the City Council of the CITY, at a meeting held on the ____ day of
_____, 20____, approved plans and specifications for the

and directed the City Clerk to advertise for sealed proposals for doing said work and providing
that bids be submitted on the ____ day of _____, 20____; and

WHEREAS, the City Clerk, thereafter duly and regularly caused a notice to be published
in the manner and for the time prescribed by law; and

WHEREAS, CONTRACTOR, pursuant to the provisions of said notice duly filed a bid
with the City Clerk, a true copy of which bid is now on file in the office of the City Clerk, and is
hereby referred to and by this reference made a part hereof as fully as if set forth at length herein;
and

WHEREAS, all bids received pursuant to said notice were opened and examined and
publicly declared at the time specified in said advertisement for bids and at a meeting of the City
Council held on the ____ day of _____, 20____, the Council found and

declared the bid of CONTRACTOR to be the lowest responsible bid and thereupon awarded a contract to CONTRACTOR to do the work referred to in the aforementioned specifications.

NOW, THEREFORE, the parties agree as follows:

1. THE WORK. CONTRACTOR agrees:

a. To do the work and furnish all the labor, materials, tools, supplies, equipment, superintendence, insurance, and bonds required for the _____

in accordance with the Contract Documents (the Work).

b. To do and perform the Work contemplated hereby in a good and workmanlike manner under the direction of and to the satisfaction of the Director of Public Works of the City of Roseville.

2. PAYMENT. CITY shall pay CONTRACTOR _____
_____ dollars (\$_____) for the Work to be done under this Agreement in accordance with the Contract Documents.

3. CONTRACT DOCUMENTS. The complete Agreement between the parties hereto consists of the following documents:

- a. The advertisement for bids (including the notice to bidders, instructions to bidders and proposals);
- b. The accepted bid;
- c. Plans and specifications (including general conditions, supplemental conditions, special provisions and construction details);
- d. Bonds and insurance required by the specifications; and

e. This contract.

All documents specified above are intended to operate so that any work called for in any one and not mentioned in the other, or vice versa, is to be executed the same as if mentioned in all said documents.

4. LIQUIDATED DAMAGES. In the event CONTRACTOR does not complete the Work within the time specified, CONTRACTOR agrees that CITY will suffer damages. Inasmuch as the actual damages which would result from such breach by CONTRACTOR under this Agreement are uncertain, and would be impractical or extremely difficult to fix, CONTRACTOR agrees that it shall pay, or CITY shall deduct from CONTRACTOR's fee, the amount of \$_____ per day as liquidated damages, in the event of such delay.

5. TIME OF COMPLETION. Time is of the essence of this Agreement. CONTRACTOR shall complete all Work under the Contract Documents within _____ Days of the date of this Contract. CONTRACTOR shall begin work by the date specified in the "Notice to Proceed" letter and shall diligently prosecute all of the Work under this Contract in all parts and requirements as defined in the Contract Documents.

6. SERVICE OF NOTICE. Any notice required or permitted to be given under this Agreement shall be deemed given when (a) personally delivered to the recipient identified below; (b) mailed by registered or certified mail, return receipt requested, postage pre-paid, to the address specified below; or (c) sent by facsimile, with confirmation of receipt, to the facsimile number identified below.

CITY OF ROSEVILLE

CONTRACTOR

CITY may also act through either its architect or construction manager if CITY expressly gives notice to CONTRACTOR, in writing, that CITY's designee has authority to act for CITY in a specific capacity.

7. DISPUTES. Disputes arising from this Agreement will be determined in accordance with the Contract Documents and Public Contract Code Sections 10240-10240.13.

8. GOVERNING LAW. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

9. INDEPENDENT CONTRACTOR. CONTRACTOR shall act as an independent contractor, and covenants and agrees that it will conduct itself consistent with such status, that it will neither hold itself out as, nor claim to be, an officer or employee of CITY by reason of this Agreement.

10. SUCCESSORS IN INTEREST. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.

11. MODIFICATION. This Agreement and each provision contained herein may be waived, amended, supplemented or eliminated only by mutual written agreement of the parties.

12. SEVERABILITY. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.

13. INTEGRATED AGREEMENT. This is an integrated agreement and contains all of the terms, considerations, understanding and promises of the parties. It shall be read as a whole.

14. CONTRACTORS LICENSE LAW. CONTRACTORS ARE REQUIRED BY LAW TO BE LICENSED AND REGULATED BY THE CONTRACTORS' STATE LICENSE

BOARD WHICH HAS JURISDICTION TO INVESTIGATE COMPLAINTS AGAINST CONTRACTORS IF A COMPLAINT REGARDING A PATENT ACT OR OMISSION IS FILED WITHIN FOUR (4) YEARS OF THE DATE OF THE ALLEGED VIOLATION. A COMPLAINT REGARDING A LATENT ACT OR OMISISON PERTAINING TO STRUCUTRAL DEFECTS MUST BE FILED WITHIN TEN (10) YEARS OF THE DATE OF THE ALLEGED VIOLATION. ANY QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR, CONTRACTORS' STATE LICENSE BOARD, P.O. BOX 26000, SACRAMENTO, CALIFORNIA 95826.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this Agreement in duplicate by its City Manager and attestation by its City Clerk under authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20____, and CONTRACTOR has caused this Agreement to be duly executed.

CITY OF ROSEVILLE, a
municipal corporation

_____, a

BY: _____
DOMINICK CASEY
City Manager

BY: _____
its: _____

and

ATTEST:

BY: _____
its: _____

BY: _____
SONIA OROZCO
City Clerk

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____

Print Name: _____

Title: _____

INSURANCE BROKER INFORMATION PACKET

Project:_____

NOTICE TO CONTRACTOR:

For your convenience, this package contains the Requirements for Insurance and Bonds for this project, including the necessary City forms. You are required to return these forms in addition to the executed Contract within fifteen (15) calendar days after the award of the Bid, unless otherwise directed by City in writing. (See the Instructions to Bidders.)

Please insert the dollar amount of your accepted Bid into the blank on page INS-1 and present this entire package to your insurance broker if you are awarded the Bid.

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NOTICE TO INSURANCE BROKER

Your client has been awarded a bid by the City Council of the City of Roseville to perform a public works project known as _____. The Contract Conditions for that project require your client (“the Contractor”) to return certain evidence of insurance and bonds to the City Attorney of the City within fifteen (15) days after the Bid award, unless otherwise directed by the City in writing, or else the Bid award may be terminated and awarded to another company.

This package contains the information you will need as an insurance broker to provide the appropriate insurance and bonds to the City. The insurance coverages the Contractor needs are specified in the section entitled “Insurance Requirements.” Please note that, in addition to the insurance certificate itself, copies of several endorsements must be actually furnished.

Please refer to the Supplemental Conditions for modifications of the General Conditions, if any, and the requirements of this insurance packet.

Please use the standard City of Roseville Bond Forms provided in this package.

The Bonds required must each be in the penal amount of: \$_____.

Bonds must be sent to the following staff person:

Insurance documents must be provided using one of the following methods:

- a. By email to roseville@ebix.com and riskmanagement@roseville.ca.us
- b. By fax to (770) 335-5727 and (916) 774-5461

After using one of these methods, please **DO NOT** send the insurance certificate(s) by mail.

When forwarding the documents, please refer to the project name so that the documents can be matched with the Contract for which they are submitted.

Thank you.

INS - 1

INSURANCE REQUIREMENTS

The following sections are quoted from the General Conditions:

5-1.23 **INSURANCE COVERAGE.**

A. **Evidence of Maintenance Required.** The Contractor shall, at its expense, procure and at all times maintain in full force and effect at a minimum the insurance required by this section on all of its operations; and the Contractor shall not allow any Subcontractor to commence work until similar insurance required of the Subcontractor has been obtained and filed. An original Certificate of Insurance, and copies of all required endorsements, all in a form approved by the Risk Manager, evidencing all required coverage or policies shall be filed after the award of the bid and prior to approval of the Contract by the City Council. Contractor shall provide ten (10) days prior written notice to the City of any reduction of coverage limits or cancellation of the coverage or policies shall be given to the City of Roseville as Certificate holder.

B. **Qualifying Insurers.** With the exception of the State Compensation Insurance Fund, all required insurance policies shall be issued by companies acceptable to the City and licensed to do business in the State of California and who hold a current policy holders alphabetic and financial size category rating of not less than AVII according to the most recent issue of Best's Insurance Reports.

C. **Insurance Required.**

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, including products and completed operations with limits of no less than Two Million Dollars (\$2,000,000) per occurrence for bodily injury, personal injury and property damage for projects under One Million Dollars (\$1,000,000) and

limits of no less than Five Million Dollars (\$5,000,000) per occurrence for bodily injury, personal injury and property damage for projects over One Million Dollars (\$1,000,000). If a general aggregate limit applies, either the aggregate limit shall apply separately to this project or the general aggregate limit shall be twice the required occurrence limit.

The Commercial General Liability insurance shall include the following, copies of which shall be provided:

a. Inclusion of the City of Roseville, and its officers, agents, employees, and volunteers, as additional insureds (except for workers' compensation) as respects services or operations under the Contract. The additional insured endorsement for the general liability policy shall be at least as broad as the ISO CG 2010 10 01 combined with ISO CGL Endorsement CG 2037 10 01. Any other endorsement must be approved in writing by the City. Endorsements must include coverage for on-going and completed operations, which coverage shall be maintained for four (4) years following completion of the Project. Endorsements shall cover the City of Roseville, its officers, agents, employees, and volunteers.

b. The insurance shall provide coverage for claims by one insured against another insured and the policies shall not contain any cross-suits exclusions, cross-liability exclusions, or insured versus insured exclusions. The policies shall not contain any classification exclusions purporting to deny coverage for any work to be performed by Contractor or any of its Subcontractors.

c. Stipulation that the insurance is primary and noncontributory, as evidenced by a separate endorsement (CG 20 01 04 13 or an equivalent) or section of the policy, and that neither the City nor its insurers will be called upon to contribute to a loss.

d. Such insurance shall specifically cover the contractual liability of

the Contractor.

e. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.

f. Waiver of subrogation endorsement.

g. The Contractor shall furnish a certificate for the period covered.

2. **Automobile Liability:** Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), or if Contractor has no owned autos, Code 8 (hired) and Code 9 (non-owned), with limits of no less than One Million Dollars (\$1,000,000) per accident for bodily injury and property damage.

3. **Workers' Compensation:** In accordance with the provisions of the California Labor Code, Contractor is required to be insured against liability for Workers' Compensation or to undertake self-insurance. Statutory Workers' Compensation and Employers' Liability of at least One Million Dollars (\$1,000,000) shall cover all Contractors staff while performing any work incidental to the performance of this Agreement.

4. **Professional Liability:** Professional Liability (Errors and Omission) Insurance appropriate to Contractor's profession, with a limit of liability not less than One Million Dollars (\$1,000,000) per occurrence or claim and Two Million Dollars (\$2,000,000) aggregate to cover all design and engineering services rendered by Contractor pursuant to the Agreement. Coverage must commence from the first day that Contractor or any of its Subcontractors provided any design or engineering services in connection with the Project.

5. **Builder's Risk/Course of Construction Insurance Is ____ OR Is Not**

____ Required by Risk Management: The Contractor shall be responsible for all loss, damage or destruction whatsoever to the work called for by this Contract until the approval of a Notice of Completion or acceptance of the Work if no Notice of Completion is to be recorded.

The Contractor shall secure "All Risk" type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the work performed under this Contract (the value is presumed to be the Contract amount unless otherwise stated in Supplemental Conditions) and all materials, equipment, or other items to be incorporated therein while the same are located at the construction site, a bonded warehouse, or its place of manufacture. At any time, the policy shall cover the value of the work completed. The policy shall cover hazards including the losses due to fire, explosion, hail, rain, lightning, flood (separate insurance as needed), vandalism, malicious mischief, wind, collapse, aircraft, and smoke.

The policies providing such insurance shall name the City as a loss payee as its respective interests may appear, and certified copies of such policies shall be filed with the City. The maximum deductible allowable under the Builder's All Risk policy shall be five percent (5%) of the Contract amount.

Builder's Risk Insurance is not required for coverage of losses in excess of five percent (5%) of the Contract amount for damages resulting from earthquake in excess of a magnitude of 3.5 on the Richter scale, or tidal waves. Coverage in the amount of five percent (5%) of the Contract amount for such losses is required.

6. **Pollution Coverage:** Contractor shall procure pollution liability coverage or other insurance covering claims for bodily injury or property damage arising out of the abatement, removal, storage, transportation, or other exposure to hazardous materials or

pollutants, in limits not less than Two Million Dollars (\$2,000,000). Contractor shall add the City and all parties required to be indemnified by Contractor as additional insured on all pollution liability policies.

7. **Higher Coverage Limits:** If Contractor maintains higher coverage limits than the amounts shown above, then the City requires and shall be entitled to coverage for the higher coverage limits maintained by Contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City.

8. **Claims Made Coverage:** Liability insurance coverage may not be written on a “claims made” or modified occurrence basis. The Certificate of Insurance must clearly provide that the coverage is on an “occurrence” basis.

5-1.24 **OTHER INSURANCE PROVISIONS.**

A. The requirements of the Standard Specifications as to types and limits of insurance coverage to be maintained by the Contractor, and any approval of insurance by the City, are not intended to, and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Contractor pursuant to the Contract, including, but not limited to, the provisions concerning indemnification, nor preclude the City from taking any other action available to it under any other provision of the Contract or law.

B. The City acknowledges that some insurance requirements contained in these Standard Specifications may be fulfilled by self-insurance on the part of the Contractor. However, this shall not in any way limit liabilities assumed by Contractor under the Contract. Any self-insurance must be approved in writing by the City, in its sole discretion and shall not reduce the limits of liability. Any deductibles or self-insured retentions (“SIR”) must be declared on the certificate of insurance and approved by City in writing. Policies containing any

SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.

C. The Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Contract, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor's work. Furthermore, the Contractor shall require its subcontractors to agree to be bound to the Contractor and the City in the same manner and to the same extent as the Contractor is bound to the City under this Contract. Additionally, the Contractor shall obligate its subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of the City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request. Alternatively, the Contractor may insure subcontractor(s) under its own policy.

D. The City, its officers, agents, employees, and volunteers are to be covered as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the Contractor; and with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts or equipment furnished in connection with such work or operations. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Insurance Code Section 11580.04.

E. The limits of insurance required in this Contract may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be

endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of the City (if agreed to in a written contract) before the City's own insurance shall be called upon to protect it as a named insured.

F. The insurance procured by Contractor shall be subject to the approval of the City, but any acceptance of insurance certificates by the City shall in no way limit or relieve Contractor of its duties and responsibilities under the Agreement.

G. Contractor shall be responsible for all premiums, deductibles, and self-insured retention applicable to the insurance it is required to procure under the Contract. All deductibles or self-insured retentions over five hundred thousand dollars (\$500,000) must be approved by the City, in writing. Contractor shall be responsible for all deductibles, self-insured retention payments, and/or increased premiums incurred if the City's policies of insurance are forced to cover damages or respond to claims for which Contractor or its Subcontractors were obligated to provide insurance under the Contract.

H. Failure of the City to enforce in a timely manner any of the requirements of these insurance provisions shall not act as a waiver to enforcement of any of these provisions at a later date.

I. Contractor's indemnity obligations shall not be limited by these insurance provisions and shall survive the expiration of the Contract and the insurance provisions of the Contract shall likewise not be limited by the indemnity provisions of the Contract.

J. THE CITY RESERVES THE RIGHT TO WITHHOLD ANY PROGRESS PAYMENTS TO THE CONTRACTOR IN THE EVENT OF NONCOMPLIANCE WITH ANY INSURANCE REQUIREMENTS.

Bond No. _____ Premium \$ _____

**PUBLIC WORKS
FAITHFUL PERFORMANCE BOND**

(Project: _____)

WHEREAS, the City of Roseville ("CITY") has awarded a bid and contract to _____ as contractor ("PRINCIPAL") for the public work described as _____ (the "WORK"). The contract ("AGREEMENT"), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

WHEREAS, the PRINCIPAL is required to furnish a bond in connection with the AGREEMENT guaranteeing its faithful performance; and

NOW, THEREFORE, we the undersigned PRINCIPAL and _____, a _____, admitted and duly authorized to transact business under the laws of the State of California, as SURETY ("SURETY"), are held and firmly bound unto the CITY or its successors and assigns in the sum of _____ dollars (\$ _____) (which amount is not less than 100% of the AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns jointly and severally, firmly by these presents.

The condition of this obligation is such that if the PRINCIPAL, or its heirs, executors, administrators, successors or assigns, shall abide by, and in all respects promptly and faithfully perform the covenants, conditions and provisions in said AGREEMENT and any alteration thereof made as therein provided, notice of which alterations to Surety being hereby waived, on its part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless CITY, its officers, agents, employees, volunteers as therein stipulated, then this obligation shall be null and void; otherwise, this obligation shall be and remain in full force and effect.

As condition precedent to the satisfactory completion of the contract, the obligation of the PRINCIPAL and SURETY under this Bond shall remain in effect for a period of one (1) year after the completion and acceptance of the WORK. During that time, if the PRINCIPAL, its heirs, executors, administrators, successors or assigns fails to make full, complete and satisfactory repair and replacement or totally protect the CITY from any loss or damage made evident during that year which results from or is caused by either defective materials or faulty workmanship in the prosecution of the WORK, then the obligation shall remain in full force and effect. However, anything in

this paragraph to the contrary notwithstanding, the obligation of the SURETY shall continue so long as any obligation of the PRINCIPAL remains.

No prepayment or delay in payments, and no change, extension, addition or alteration of any provision of the AGREEMENT or in the specifications agreed to between the PRINCIPAL and the CITY, or any forbearance on the part of the CITY shall operate to relieve the SURETY. The SURETY hereby waives the provisions of Section 2819 of the California Civil Code. The SURETY waives all rights of subrogation against the CITY or any person employed by the CITY. If the contract price increases by the issuance of change orders, the amount specified in this bond shall increase by the same amount.

Whenever PRINCIPAL shall be and declared by CITY to be in default under the AGREEMENT, SURETY shall promptly remedy the default, or shall promptly do one of the follow at CITY's election:

1. Undertake through its agents or independent contractors, reasonably acceptable to CITY, to complete the AGREEMENT in accordance with its terms and conditions and to pay and perform all obligations of PRINCIPAL under the AGREEMENT, including without limitation, all obligations with respect to warranties, guarantees, and the payment of liquidated damages.
2. Reimburse CITY for all costs CITY incurs in completing the AGREEMENT, and in correcting, repairing or replacing defects in materials or workmanship and/or materials and workmanship which do not conform to the specifications in the AGREEMENT.

SURETY's obligations hereunder are independent of the obligations of any other surety for the performance of the AGREEMENT, and suit may be brought against SURETY and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing CITY's rights against the others.

No right of action shall accrue on this bond to or for the use of any person or corporation other than CITY or its successors or assigns.

As part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees, including reasonable attorneys' fees, incurred by CITY in successfully enforcing such obligation, all to be taxed as costs and included in any judgment rendered.

[SIGNATURES NEXT PAGE]

IN WITNESS WHEREOF, this instrument has been duly executed by the
PRINCIPAL and SURETY above-named, on the ____ day of _____,
20____.

PRINCIPAL:

SURETY:

BY: _____

BY: _____

PRINT NAME: _____

PRINT NAME: _____

PRINT TITLE: _____

PRINT TITLE: _____

AND

MAILING ADDRESS:

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

***(Notarization by Surety and copy of
Power of Attorney required.)***

APPROVED AS TO FORM:

BY: _____
City Attorney

Bond No. _____
Premium \$ _____

**PUBLIC WORKS
LABOR AND MATERIALS PAYMENT BOND**
(Project: _____)

WHEREAS, the City of Roseville ("CITY"), has awarded a bid and contract to _____
as contractor ("PRINCIPAL"), for the public work described as _____
_____ (the "WORK"). The
contract ("AGREEMENT"), for the public work described above, and all of its terms and
conditions are incorporated by reference and made a part hereof; and

WHEREAS, the PRINCIPAL is required to furnish a bond in connection with the
AGREEMENT guaranteeing payment of persons who provide labor and material; and

NOW, THEREFORE, we the undersigned PRINCIPAL and _____
_____, a _____, admitted
and duly authorized to transact business under the laws of the State of California, as
SURETY ("SURETY"), are held and firmly bound unto the CITY or its successors and
assigns in the sum of _____
dollars (\$ _____) (which amount is not less than 100% of the
AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which
payment, well and truly to be made, we bind ourselves, our heirs, executors and
administrators, successors or assigns jointly and severally, firmly by these presents.

The condition of the obligation is such that if the PRINCIPAL, its subcontractors,
heirs, executors, administrators, successors or assigns fails to pay any of the persons
named in Section 8004 or 9100 of the Civil Code of the State of California, or the
amounts due under the Unemployment Insurance Code of the State of California, or any
amounts required to be deducted, withheld and paid over to the Employment
Development Department from the wages of employees of the PRINCIPAL and its
subcontractors pursuant to Section 13020 of the Unemployment Insurance Code, with
respect to work or labor performed by any such claimant, that the SURETY will pay for
the same, in an amount not exceeding the sum specified in this bond, and also, in case
suit is brought upon the bond, shall pay reasonable attorneys' fees, to be fixed by the
Court.

This bond shall inure to the benefit of any and all persons, companies, and
corporations entitled to file a Stop Payment Notice pursuant to the provisions of Section
9350 et seq. of the Civil Code of the State of California, so as to give a right of action to
them or their assigns in any suit brought upon this bond.

No prepayment or delay in payments, and no change, extension, addition or alteration of any provision of the AGREEMENT or in the specifications agreed to between the PRINCIPAL and the CITY, or any forbearance on the part of the CITY shall operate to relieve the SURETY. The SURETY hereby waives the provisions of Section 2819 of the California Civil Code. The SURETY waives all rights of subrogation against the CITY or any person employed by the CITY. If the contract price increases by the issuance of change orders, the amount specified in this bond shall increase by the same amount.

As part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees, including reasonable attorneys' fees, incurred by CITY in successfully enforcing such obligation, all to be taxed as costs and included in any judgment rendered.

IN WITNESS WHEREOF, this instrument has been duly executed by the PRINCIPAL and SURETY above-named, on the _____ day of _____, 20__.

PRINCIPAL:

SURETY:

BY: _____

BY: _____

PRINT NAME: _____

PRINT NAME: _____

PRINT TITLE: _____

PRINT TITLE: _____

AND

MAILING ADDRESS:

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

*(Notarization by Surety and copy of
Power of Attorney required.)*

APPROVED AS TO FORM:

BY: _____
City Attorney

CITY OF ROSEVILLE

GENERAL CONDITIONS

FOR

BUILDINGS AND GROUNDS

GC

**CITY OF ROSEVILLE
GENERAL CONDITIONS
FOR
BUILDINGS AND GROUNDS**

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SECTION 1

DEFINITIONS AND TERMS

1-1.01 **GENERAL.** When the following abbreviations and terms or pronouns in place of them appear in the Contract Documents, the intent and meaning shall be interpreted as provided in this Section 1.

1-1.02 **ACCEPTANCE.** Formal Acceptance by resolution by the Roseville City Council of the Contract when completed in all respects in accordance with the Contract Documents and any modifications previously approved.

1-1.03 **ADDENDUM.** Written interpretation or revision to any of the Contract Documents issued by the City before the bid opening.

1-1.04 **AS-BUILT DOCUMENTS, AS-BUILT DRAWINGS AND RECORD DOCUMENTS.** As-Built Documents, As-Built Drawings and Record Documents are all contract documents modified to reflect changes during the construction phase. Specifically, As-Built Documents/Drawings are a revised set of drawings submitted by the Contractor upon Final Completion of a project. They reflect changes made in the Specifications and Working Drawings during the construction process, and show the exact dimensions, geometry, and location of all elements of the work completed under the Contract. Record Documents, on the other hand, are compiled by the Engineer or Architect based on the As-Built Documents/Drawings submitted by the Contractor. They reflect the Engineer or Architect's concurring review of what changes were denoted, why they were made and where they occurred and create a record set of drawings.

1-1.05 **ASSESSMENT.** A cost imposed on the Contractor for non-compliance

with certain contractual requirements.

1-1.06 **BENEFICIAL OCCUPANCY.** The taking possession of a portion of the Work by the City for its use and/or occupancy on other than a temporary or emergency basis.

1-1.07 **BID GUARANTY.** The cashier's, certified check, irrevocable standby letter of credit, deposit of securities, or Bidder's Bond, accompanying the bid submitted by the Bidder, as a guaranty that the Bidder will enter into an agreement with the City for the performance of the Work, if the Agreement is awarded to Bidder, and the Bidder will submit the required Contract Bonds and Certificate of Insurance. Also referred to as the Bidder's Security.

1-1.08 **BIDDER.** Individual, firm, partnership, limited liability company, corporation, joint venture, or any combination thereof, submitting a Proposal for the Work, acting directly, or through a duly authorized representative.

1-1.09 **BIDDING DOCUMENTS.** Includes the Notice to Bidders, Bidding Requirements, Contract Conditions, Drawings, and Addenda.

1-1.10 **CHANGE ORDER.** Any written order to the Contractor directing an addition, deletion, or modification of the Work, or an adjustment in the Contract Price or Contract Time provided in the Contract Documents and issued after the Agreement has been signed.

1-1.11 **CITY.** The City of Roseville.

1-1.12 **CITY ATTORNEY.** The City Attorney of the City.

1-1.13 **CITY CLERK.** The City Clerk of the City.

1-1.14 **CLAIM.** A separate demand by Contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following: (a) a time extension, including, without limitation, for relief for damages or penalties for delay assessed by

the City; (b) payment by the City of money or damages arising from work done by, or on behalf of, Contractor pursuant to the Contract Documents and payment for which is not otherwise expressly provided or to which Contractor is not otherwise entitled; and (c) payment of an amount that is disputed by the City.

1-1.15 **CONSTRUCTION SCHEDULE.** A list or graphic display of construction activities required for completing the Work, in a format required by the Contract Documents. The duration, start and finish date, and sequence of significant activities, critical path, float and milestones must be indicated in the Construction Schedule.

1-1.16 **CONTRACT OR AGREEMENT.** The written agreement relating to the Work to be performed, the labor, materials, and equipment to be furnished, and the payment to be made therefor. The Agreement/Contract is part of and incorporates all of the Contract Documents.

1-1.17 **CONTRACT CONDITIONS.** Includes the General Conditions, Supplemental Conditions, and Specifications.

1-1.18 **CONTRACT DOCUMENTS.** Includes those documents that form the basis of the Contract, including but not limited to, Bidding Documents, the Bid or Proposal, Contract Bonds, the Contract, all required insurance certificates or endorsements, all bonds, all required certifications or statements, Change Orders, any Contract Amendment, any City Standard which is incorporated by reference and these City of Roseville General Conditions for Buildings and Grounds.

1-1.19 **CONTRACT DRAWINGS.** The official drawings including plans, elevations, sections, detail drawings, diagrams, plated, General Notes, information and schedules thereon, or exact reproductions thereof, showing the location, character, dimension, and details

of the Work. The Contract Drawings include any drawings or plates bound within the Supplemental Conditions.

1-1.20 **CONTRACT PRICE.** The total compensation to be paid to the Contractor in accordance with the terms of the Agreement.

1-1.21 **CONTRACT TIME.** The number of Days, or portion thereof, allowed for completion of the Work, including all authorized time extensions. The effective date for commencement of the Work specified in the Notice to Proceed shall define the beginning of the Contract Time.

1-1.22 **CONTRACTOR.** Individual, firm, partnership, limited liability company, corporation, joint venture, or any combination thereof, who has entered into the Agreement with City.

1-1.23 **DAY OR DAYS.** Unless otherwise designated, Day or Days as used in the Contract Documents will be understood to mean calendar Day or Days.

1-1.24 **DEPARTMENT.** The Department for Contract Administration, as identified in the Supplemental Conditions.

1-1.25 **DIRECT COSTS.** Those cost items (including labor, materials, equipment and any subcontractor's work) that are used in the actual performance of, and are specifically and uniquely attributable to the Work or changed Work. Direct Costs do not include Overhead. Direct Costs only include the following:

A. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by City and Contractor. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include salaries and

wages plus the cost of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, sick leave, vacation and holiday pay applicable thereto. Such employees may include superintendents and foremen at the site. The expenses of performing work after regular working hours, on Saturday, Sunday or legal holidays shall be included in the above only to the extent authorized by City in writing.

B. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and suppliers' field services required in connection therewith. All trade discounts, rebates and refunds and all returns from sale of surplus materials and equipment shall accrue to City, and Contractor shall make provisions so that they may be obtained.

C. Payments made by Contractor to the subcontractors for work performed by subcontractors. If required by City, Contractor shall obtain competitive bids from subcontractors acceptable to Contractor and shall deliver such bids to City who will then determine which bids will be accepted. If a subcontract provides that the subcontractor is to be paid on the basis of cost of the work plus a fee, the subcontractor's cost of the work shall be determined in the same manner as Contractor's cost of the work. All subcontracts shall be subject to the other provisions of the Contract Documents insofar as applicable.

D. Costs of special consultants (including engineers, architects, testing laboratories, surveyors, and accountants) employed for services specifically, and only, related to the Work.

E. Supplemental costs including the following:

1. The proportion of necessary transportation, travel and subsistence

expenses of Contractor's employees incurred in discharge of duties connected with the Work.

2. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the site and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value of such items used but not consumed which remain the property of Contractor.

3. Rentals of all construction equipment and machinery and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by City, and the costs of transportation, loading, unloading, installation, dismantling and removal thereof, all in accordance with terms of said rental agreements. The rental of any such equipment, machinery or parts shall cease when the use thereof is no longer necessary for the Work.

4. Sales, consumer, use or similar taxes related to the Work, and for which Contractor is liable, imposed by laws and regulations.

5. The cost of utilities (including the meter and all associated installation costs), fuel and sanitary facilities at the site.

6. Cost of premiums for additional bonds and insurance required because of changes in the Work.

1-1-26 **DIRECTOR.** Director of the Department for Contract Administration or his or her designee.

1-1.27 **EMERGENCY.** Any sudden generally unforeseen occurrence (such as a fire, flood, storm, earthquake, civil disorder, or other natural and/or man-made disaster) that has the potential to adversely affect the safety of life, the Work, and/or adjacent property; to interrupt contracts essential to the performance of the Work; and/or to cause catastrophic failure of City

equipment and/or facilities.

1-1.28 **ENGINEER OR ARCHITECT.** Professional Engineer or Architect designated for a particular project responsible for signing and sealing the permit drawings, interpretation of the drawings where ambiguities exist, review of requests for information, design Change requests and Shop Drawings, resolution of errors and omissions, and finalization of Record Documents.

1-1.29 **FINAL COMPLETION.** When the project has been completed according to the terms and conditions set forth in the Contract Documents. Final Completion is not the same as Acceptance.

1-1.30 **FORCE ACCOUNT.** Payment by force account shall mean payment on the basis of the Contractor's time and materials.

1-1.31 **GENERAL NOTES.** The written instructions, provisions, conditions or other requirements appearing on the Contract Drawings and so identified thereon, which pertain to the performance of the Work.

1-1.32 **INSTALLATION, INSTALL.** Completely assembling, erecting, and/or connecting materials, parts, components, supplies, and related equipment specified or required for the completion of the Work.

1-1.33 **LABORATORY.** Established professional laboratories authorized by the City to test materials and Work involved in the Contract.

1-1.34 **LEGAL HOLIDAYS.** Those days designated as Federal holidays or declared by the City, or otherwise specified in the Contract Documents.

1-1.35 **LIQUIDATED DAMAGES.** The amount prescribed in the Contract Documents to be paid to the City or to be deducted from any payments due or to become due the

Contractor for each day's delay in completing the whole or any specified portion of the Work beyond the time allowed in the Supplemental Conditions.

1-1.36 **NOTICE OF COMPLETION.** A legal notice filed by the City with the Placer County Recorder's Office stating that construction has been completed and accepted by the City.

1-1.37 **NOTICE TO PROCEED.** A written notice given by the City to the Contractor fixing the date on which the Contract Time will commence to run.

1-1.38 **NOTICE OF TERMINATION.** Written notice from the City to the Contractor and/or its Surety terminating the Agreement, or a portion thereof, either for convenience of the City or for default due to the Contractor's failure to perform its contractual obligations.

1-1.39 **OVERHEAD.** Business or administrative expenses (including but not limited to office expenses, administrative staff, rent, insurance, utilities) not chargeable to a particular part of the Work. The term "Overhead" shall include all of the following:

A. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor whether at the Work Site or in Contractor's principal or a branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications, all of which are to be considered administrative costs covered by the Contractor's fee.

B. Expenses of Contractor's principal and branch offices other than Contractor's office at the site.

C. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.

D. Cost of premiums for all bonds and for all insurance whether or not Contractor is required by the Contract Documents to purchase and maintain the same, except as provided in section 1-1.25.

E. Other overhead or general expense costs of any kind.

1-1.40 **PREMISES.** Shall mean the area within construction easements, easements, rights of entry and City owned property which surrounds the Work Site, limited by the property lines thereof. In some cases Premises may coincide with the Work Site.

1-1.41 **PROFESSIONAL ENGINEER.** An engineer licensed by the Board of Registration for Professional Engineers, State of California.

1-1.42 **PROJECT MANUAL.** A book containing all Contract Documents.

1-1.43 **PROPOSAL FORMS.** The approved forms upon which the City requires that each Bidder submit its bid with regard to the Agreement.

1-1.44 **REQUEST FOR INFORMATION (RFI).** A document issued by the Contractor requesting information concerning the Contract Documents.

1-1.45 **SAFETY.** Includes the practice of identifying potential hazards, assessing their risk, taking corrective action where possible, including and providing control measures such as engineering design, written procedures, and the personal protective equipment for workers in order to eliminate or reduce the risk for exposure in the workplace.

1-1.46 **SCHEDULE OF VALUES.** The breakdown of the Contract Price that will serve as the basis for Contractor's Applications of Payment. Any lump sum bid item

included within the Contract Price will be apportioned among values relating to specific components of the Work covered by said lump sum.

1-1.47 **SHOP DRAWINGS.** Drawings, plans, diagrams, schedules, and other data specifically prepared and submitted to the City by the Contractor, showing in detail: (a) the proposed fabrication and assembly of a special component of the Work; and (b) the Installation (form, fit and attachment details) of a special component of the Work. Shop Drawings shall be deemed to include Working Drawings, Product Data, literature, and applicable performance and test data.

1-1.48 **SPECIFICATIONS.** The technical Specifications for the Work prepared by the Director or an Engineer or Architect describing in detail the nature of the Work, its components, any performance standards, and how the Work is to be constructed.

1-1.49 **SUBCONTRACTOR.** Any individual, firm, partnership, limited liability company, corporation, joint venture, or combination thereof, other than employees of the Contractor, engaged by the Contractor to furnish services, labor, equipment and materials for a portion of the Work.

1-1.50 **SUBMITTALS.** Those documents required to be submitted by the Contractor for review by the City in accordance with the Contract Documents.

1-1.51 **SUPPLEMENTAL CONDITIONS.** The Supplemental Conditions are specific clauses modifying or supplementing these General Conditions.

1-1.52 **SUPPLIER.** Any individual, firm, partnership, limited liability company, corporation, joint venture, or combination thereof, other than employees of the Contractor, that supplies a tangible product as a portion of the Work, with services usually limited to delivery and/or required testing, and with manufacturing, fabrication, or production facilities located off

the Work Site.

1-1.53 **WORK.** The furnishing of all labor, and the furnishing and Installing of all materials, articles, supplies and equipment as specified, designated, or required by the Contract Documents.

1-1.54 **WORK SITE.** All or portion of the Premises that the Work is limited to as shown on the Contract Drawings or designated by the Director. Public streets are not included unless Work is being done within the street right-of-way.

1-1.55 **WORKING DRAWINGS.** Original drawings prepared by the Contractor and/or its Subcontractors or Suppliers, of any tier, illustrating Work required for construction that will not become an integral part of the completed Work. This includes, but is not limited to, drawings for temporary structures such as decking, bulkheads, excavation supports, utility support, groundwater control, forming, falsework, access roads, staging areas, staging plans, and diversion plans. A Working Drawing is one type of a Shop Drawing.

SECTION 2

CONTROL AND SCOPE OF THE WORK

2-1.01 **AUTHORITY OF DIRECTOR.** The Contract shall be performed in a manner satisfactory to the Director who shall decide all questions which may arise as to the quality or acceptability of materials furnished and Work performed and as to the manner of performance and rate of progress of the Work; all questions which may arise as to the interpretation of the Contract Documents; all questions as to the acceptable fulfillment of the Contract on the part of the Contractor; and all questions as to compensation. The Director shall have authority to enforce and make effective such decisions and orders in the event the Contractor fails to promptly carry out the same.

2-1.02 **INTENT OF CONTRACT DOCUMENTS.** The Contract Documents are complementary, and what is called for by one shall be as binding as if called for by all. The intent of the Contract Documents is to describe the details for the construction and completion of the Work. Where the Contract Documents describe portions of the Work in general terms, but not in complete detail, it is understood that only the best general practice shall be followed and that only materials and workmanship of the best quality are to be used. Any Work, materials, or equipment that are customarily provided, or that are reasonably inferable from the Contract Documents as being required to produce the intended result, shall be supplied, whether or not specifically called for. When words, which have a well-known technical or trade meaning are used to describe work, materials, or equipment, such words shall be interpreted in accordance with that meaning. Unless otherwise specified, the Contractor shall furnish all labor, materials, tools, equipment, and incidentals, and do all the Work involved in executing the Contract in a

satisfactory and workmanlike manner.

Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code, laws, or regulations in effect on the first published date of the Notice to Contractors, except as may be otherwise specifically stated. However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the Contract Documents) shall be effective to change the duties and responsibilities of City or Contractor, or any of their consultants, agents, or employees from those set forth in the Contract Documents, nor shall it be effective to assign to City, or City's designated representative, any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to other provisions of the Contract Documents.

The Contract Documents are divided into parts, divisions, sections and articles for convenience, organization and reference. Generally, there has been no attempt to divide the Specifications sections into work performed by the various building trades, work by separate Subcontractors, or work required for separate facilities in the project.

2-1.03 **EXAMINATION AND VERIFICATION OF CONTRACT**

DOCUMENTS. The Contractor shall thoroughly examine and become familiar with all of the various parts of the Contract Documents and shall determine the nature and location of the Work, the general and local conditions (including applicable laws) and all other matters which can in any way affect the cost, progress or performance of the Work under this Agreement. Failure to make an examination necessary for this determination shall not release the Contractor from the obligations of the Agreement. No oral agreement or conversation with any officer, or employee

of the City, or with the City's designated representative either before or after the execution of the Agreement, shall affect or modify any of the terms or obligations contained in the Contract Documents.

2-1.04 **CONTRACT DRAWINGS.** The Contract Drawings consist of general drawings and show such plans, elevations, sections, details and schedules as are necessary to give a graphic and pictorial description of the contemplated construction. All authorized alterations affecting the requirements and information given on the Contract Drawings shall be in writing.

2-1.05 **COORDINATION AND INTERPRETATION OF CONTRACT DOCUMENTS.** All Contract Documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary, and to describe and provide for a complete Work.

In the event of inconsistencies between requirements contained in different components of the Contract Documents, the precedence of the Contract Documents shall be as follows to resolve conflicts:

1. Change Orders
2. The Contract (including Addenda)
3. The Supplemental Conditions
4. Specifications
5. Contract Drawings
6. The General Conditions

Should it appear that the Work to be done or any of the matters relative thereto are not sufficiently detailed or explained in the Contract Documents, the Contractor shall submit a

Request for Information (“RFI”) to the Director for such further explanations as may be necessary and shall conform to the written explanation given as if part of the Contract Documents. The decisions of the Director shall be final.

Contractor shall anticipate that it will be necessary to prepare and submit RFIs regarding the Contract Documents. The City will respond to each RFI by no later than fourteen (14) Days after receipt of the RFI, unless the RFI is of significant complexity. Furthermore, in the event that there are numerous RFIs pending, Contractor shall cooperate with the City in establishing a priority for responding to the RFIs, and potentially some RFIs may be responded to beyond the fourteen (14) Day period.

Each RFI prepared by Contractor shall be full and complete. Contractor shall prepare RFIs so as to not cause any delay to the progress of the Work and to not cause any impact to Contractor’s labor productivity in the field. Contractor shall not assert any Claims for delay or interference against the City if Contractor fails to timely submit any RFI to the City, after consideration of the response period allowed for by the City.

The response to an RFI shall not, by itself, constitute a writing that authorizes Contractor to perform any Work that causes an adjustment to either the Contract Price or the Contract Time. If Contractor believes that any response to any RFI should constitute a compensable change, Contractor shall provide a Notice of Potential Claim as provided in Section 7-1.03, below. Contractor’s failure to provide the required written notice shall constitute a waiver of the Contractor’s right to seek a compensable change based on the RFI response.

The Contractor shall examine all Contract Documents; shall verify all figures in the Contract Documents before laying out the Work; shall promptly notify the City of all errors, inconsistencies, and/or omissions that it discovers; and, in instances where such non-

conformities are discovered, shall obtain specific instructions in writing from the City before proceeding with the Work. Contractor's performance of any Work affected by such non-conformities prior to the City's decision shall be at the Contractor's risk. Any Work that is customarily provided or that is reasonably inferable shall not relieve the Contractor from performing such work at no additional expense and/or delay, and such Work shall be performed as if fully set forth in the Contract Documents.

2-1.06 **INDEPENDENT CONTRACTOR STATUS.** The Contractor shall independently perform all Work required by the Contract Documents and shall not be considered as an agent or employee of the City, nor shall the Contractor's Subcontractors or employees be considered as subagents of the City.

The Contractor and Contractor's Subcontractors shall be licensed in accordance with the laws of the State of California and as more particularly described in the bidding documents or elsewhere in the Contract Documents.

2-1.07 **ORDER OF WORK.** When required by the Contract Documents, the Contractor shall follow the sequence of operations set forth therein. Full compensation for conforming to such requirements will be considered as included in the prices paid for the various Contract items of work, and no additional compensation will be allowed therefor.

2-1.08 **SUBMITTALS.** It shall be the Contractor's responsibility to timely submit, so as to cause no delay in the Work, all Shop Drawings, descriptive data, manuals, instructions, affidavits, samples for the various trades as required by the Supplemental Conditions and Specifications, and offers of alternatives, if any. Such Submittals shall be checked and coordinated by the Contractor with the Work of other trades involved before they are submitted to the Director for examination.

The Contractor shall deliver at least one (1) electronic copy of the Submittals to the Director, and one (1) hard copy if requested. Work requiring the submittal of working drawings, descriptive data or samples shall not begin prior to approval of said Submittal by the Director.

The time allowed for review of each Submittal will be as indicated in the Supplemental Conditions. Review time will start upon receipt of the Submittal by the Director and will end upon the Director's mailing of the Submittals to the Contractor. Defective, incomplete or partial Submittals will be returned to the Contractor unreviewed.

Submittals shall be made by a letter of transmittal that shall contain a list of all matter submitted and identification of all variations from the Contract Documents contained in the Submittal. The letter and all items accompanying the same shall be fully identified as to project name and location, Contractor's name, district, county, and Contract number, with ample cross-references to the Contract Documents, to facilitate identification of items and their location in the Work.

All Shop Drawings and supporting data, catalogs, schedules, shall be submitted as the instruments of the Contractor, who shall be responsible for their accuracy and completeness. These Submittals may be prepared by the Contractor, Subcontractors, or Suppliers, but the Contractor shall ascertain that Submittals meet all of the requirements of the Contract Documents, while conforming to structural, space, and access conditions at the point of Installation. The Contractor shall check all Submittals before submitting them to the Director.

2-1.08A **SHOP DRAWINGS.** The Contractor shall submit an electronic copy (searchable PDF) of all Shop Drawings required by the Supplemental Conditions or Specifications, and one (1) hard copy, if requested by the Director. Shop Drawings shall also be provided separately in AutoCAD format using the latest version of AutoCAD. An electronic

copy will be returned to the Contractor either approved for use, as demonstrated by a stamp, or returned for correction and resubmittal. Materials, colors and/or samples will not be returned to the Contractor. Shop Drawings include any drawing, which requires execution by a draftsman as distinguished from printed matter. The size of Shop Drawings shall not exceed twenty-four inches (24”) by thirty-six inches (36”).

2-1.08B **DESCRIPTIVE DATA.** The Contractor shall submit an electronic copy (searchable PDF) of each set of manufacturer's brochures or other data required by the Supplemental Conditions or Specifications, and one (1) hard copy, if requested by the Director. The City will examine such Submittals and return either an electronic copy or a hard copy approved for use or returned for correction and resubmittal.

2-1.08C **SAMPLES.** The Contractor shall submit samples of articles, materials or equipment as required by the Supplemental Conditions or Specifications. The Work shall be in accordance with the approved samples. Samples shall be removed from City property when directed or may be incorporated in the Work if approved by the Director. Samples not removed by the Contractor will become the property of the City or, at the City's option, will be removed or disposed of by the City at the Contractor's expense.

2-1.08D **MANUALS, INSTRUCTIONS AND AFFIDAVIT.**

A. **Manuals and Instructions.** Where operation and maintenance manuals are required by the Supplemental Conditions, the Contractor shall submit two (2) sets of manuals, suitably bound, along with two (2) electronic copies in an approved format, to the Director within forty-five (45) Days after favorable review of the equipment or facilities. If operation and maintenance manuals are approved to be provided in PDF format, text shall be provided in searchable PDF format, making proper use of PDF for headings and heading levels,

paragraphs, tables, and lists. Submitted operation and maintenance manuals shall be a collected, organized, and indexed set of bookmarked PDF documents comprising each operation and maintenance manual that corresponds to a hardcopy binder. All manuals shall be marked to indicate the specific equipment furnished for this project and shall include at a minimum:

1. Equipment summary form
2. Cover/Title page
3. Table of contents
4. Operating procedures including start-up, shutdown, normal operation, all operating modes, emergency shutdown, and safety precautions
5. Lubrication instructions (if required)
6. Preventative maintenance procedures
7. Troubleshooting and corrective maintenance procedures
8. Reinstallation instructions
9. Overhaul instructions (if applicable)
10. Parts identification list with exploded view and associated cross references
11. Recommended spare parts list
12. Operator safety requirements
13. Electrical and control system wiring drawings, including panel wiring control (ladder) diagrams, logic diagrams, loop diagrams, and interconnection diagrams
14. Panel layout and assembly drawings

15. Mechanical drawings
16. Printouts of all software programs and configuration files
17. Factory and field test procedures and results

Operation and maintenance manuals for complex equipment shall also include:

18. Alternate specified operating modes
19. Emergency shutdown instructions
20. Normal shutdown instructions
21. Long term shutdown instructions

Operation and maintenance manuals for systems comprised of separate pieces of equipment shall include a system explanation of items 4, 7, 18, 19, 20, and 21 as well as the instructions for the separate pieces of equipment.

B. Affidavits. Where required in the Supplemental Conditions or Specifications, manufacturers of equipment shall provide field service as a part of this project. Equipment shall not be considered ready for full time operation until after the authorized factory-trained and qualified manufacturer's representative for the specific equipment has checked and adjusted the equipment and certified by written affidavit that the equipment has been properly Installed, tested, adjusted, lubricated, and calibrated, and is ready for full time operation. Acceptable affidavits shall be submitted prior to completion of the Work. Affidavits shall contain the following specific wording:

“The (Name of Equipment) has been properly installed, tested, adjusted, lubricated, and calibrated, and is ready for full time operation. The installation has been inspected and has been found to be in conformance with our (the manufacturer's) standards and requirements.”

No amplification, dilution, or modification of this specific wording will be permitted.

2-1.08E **ALTERNATIVES.** For convenience in designation in the Contract Documents, certain materials, articles, or equipment may be designated by a brand or a trade name or the name of the manufacturer together with catalog designation or other identifying information, hereinafter referred to generically as “designated by brand name.” Except in those instances where the product is designated to match others in use in a particular improvement, either completed or in the course of completion, an alternative material, article, or equipment which is of equal quality and of the required characteristics for the purpose intended may be proposed for use provided the Contractor complies with the following requirements:

A. The Contractor shall submit its proposal for an alternative in writing. Such request shall be made in ample time to permit review and approval without delaying the Work. The Contractor shall not be entitled to an adjustment of the Contract Time or an increase in the Contract Price based on any Contractor-proposed substitution.

B. No such proposal will be considered unless accompanied by complete information and descriptive data, necessary to determine the equality of the offered materials. The Contractor shall satisfy the Director as to the comparative quality, suitability, or performance of the offered material, articles, or equipment. In the event that the Director rejects the use of such alternative materials, articles, or equipment, then one of the particular products designated by brand name shall be furnished.

C. The burden of proof as to the quality and suitability of alternatives shall be upon the Contractor and it shall furnish all information necessary as required by the Director. The Director shall be the sole judge as to the quality and suitability of alternative articles or materials and such decisions shall be final. Where use of an alternative material

involves redesign of, or changes to, other parts of the Work, the cost and time required to effect such redesign or changes will be considered in evaluating the suitability of the alternative material. Cost of redesign by the City will be borne by the Contractor.

D. Whenever classification, rating or other certification by a body such as Underwriters Laboratories (UL) or the National Electrical Manufacturers Association (NEMA) is a part of the specification for any material, Contractor's request for use of alternative articles or materials shall be accompanied by reports from the listed or equivalent independent testing Laboratory indicating compliance with the Contract Documents. The cost of all testing required to prove equality of the material proposed shall be borne by the Contractor. Approval of an alternative shall be only for the characteristics or use named in such approval, and shall not be used to change or modify any requirement of the Contract Documents.

E. At its election, the City reserves the right to consider any Contractor proposed substitution as a Cost Reduction Proposal under Section 3-1.07 of these General Conditions in the event that there is a significant savings resulting from the substitution.

The Director will examine, with reasonable promptness, such Submittals, and return of Submittals to the Contractor shall not relieve the Contractor from responsibility for deviations and alternatives from the Contract Documents, nor shall it relieve the Contractor from responsibility for errors in the Submittals. A failure by the Contractor to identify in its letter of transmittal material deviations from the Contract Documents shall void the Submittal and any action taken thereon by the Director. When specifically requested by the Director, the Contractor shall resubmit such Shop Drawings, descriptive data and samples as may be required.

If any mechanical, electrical, structural, or other changes are required for the proper Installation and fit of alternative materials, articles, or equipment, or because of deviations from

the Contract, such changes shall not be made without the approval of the Director and shall be made without additional cost to the City.

2-1.09 **DISPOSAL OF MATERIAL OUTSIDE THE WORK SITE.** Unless otherwise stated elsewhere in the Contract Documents, the Contractor shall, at its own cost and expense, make its own arrangements for disposing of materials outside the Work Site.

Except when material is to be disposed of at a landfill or recycling center, when any material is to be disposed of outside the Work Site, the Contractor shall first obtain written permission from the City to dispose of the material at the intended location. The City's approval will be contingent upon the Contractor obtaining a written permit from the property owner on whose property the disposal is to be made. Prior to the disposal of any material at the intended location, the Contractor shall submit such permit or a certified copy thereof to the City, together with a written release from the property owner absolving the City from any and all responsibility related to the disposal of material on said property.

Disposal of Hazardous Materials must be done in accordance with all laws and regulations. Copies of all required regulatory documentation including copies of final manifests shall be supplied to the City.

2-1.10 **ACCESS TO THE WORK.** The Contractor shall satisfy itself that the jurisdictions through which its operations and haul routes pass will permit such operations with respect to the type of vehicle, laden weights, frequency and dimensions of loads, hours of operation and required traffic control. All necessary permits, licenses or bonds shall be obtained and paid for by the Contractor.

2-1.11 **TEMPORARY UTILITIES.** The Contractor shall make its own arrangements with utility companies for any temporary services it may require in performance of

the Work and shall pay all costs of these services directly to these utility organizations.

2-1.12 **UTILITY FACILITIES.** The Contractor shall protect from damage those utility facilities that are to remain in place, be Installed, relocated or otherwise arranged.

The Contractor's attention is directed to the possible existence of facilities not shown, and of facilities in a location different from that, which is indicated. The Contractor shall take steps to ascertain the exact location of all facilities prior to doing any Work, which may damage such facilities or interfere with their service. Where the location of a facility is indicated or inferred from the presence of visible facilities such as buildings, meters, and junction boxes, the Contractor shall make such excavations and explorations as are necessary to ascertain the correct location. Unless provided for elsewhere in the Contract Documents, the cost of such excavations and explorations will be considered as a part of the cost of other items of Work and no additional payment will be made. Such excavations and exploratory Work shall not entitle the Contractor to an extension of time.

If the Contractor discovers underground facilities not indicated or inferred from the Contract Documents, the Contractor shall immediately give the Director written notification of the existence of those facilities. The Contractor shall determine the exact location of the underground facilities and the cost of the work will be paid for in accordance with the Contract Documents. The underground facilities shall be protected from damage as directed by the Director and the cost of that work will be paid for as extra work. The Contractor shall, if directed by the Director, repair any damage, which may occur to the underground facilities. The cost of that repair work, not due to the failure of the Contractor to exercise reasonable care, will be paid for as extra work. Damage due to the Contractor's failure to exercise reasonable care shall be repaired at the Contractor's cost and expense.

Where it is determined by the City that the rearrangement of an underground facility, the existence of which is not shown on the Contract Drawings, is essential in order to accommodate the Work, the City will provide for the rearrangement of such facility by other forces or, when so ordered by Change Order, such rearrangement shall be performed by the Contractor and will be paid for as provided under a Change Order.

The Contractor shall be responsible for the maintenance of all utility facilities placed by the Contractor in temporary locations, and all utilities within the construction area not required to be relocated but which are required to be shored or supported during the construction period. The cost of such maintenance shall be borne by the Contractor, and no other compensation shall be due the Contractor for this Work.

The cost of providing and maintaining all necessary or required temporary structures, of making any necessary repairs, replacements, or similar operations, or furnishing indemnity or other bonds, if required, and all costs required by this Section shall be paid by the Contractor and shall be included in the prices bid in the schedule for other items of work.

2-1.13 **PRESERVATION AND CLEANING.** The Contractor shall clean up the Work at frequent intervals and at other times when directed by the Director. While finish Work is being accomplished, floors, Work areas and finished areas shall be kept clean, free of dust, construction debris and trash. Upon completion of the Work, the Contractor shall remove from the Premises its construction equipment and any waste materials not previously disposed of, leaving the Premises thoroughly clean and ready for final inspection.

2-1.14 **LIMITATIONS ON WORK SITE AND PREMISES.** The Contractor shall limit its construction operations to the Work Site unless otherwise shown on the Contract Drawings or specified. The Contractor shall perform no operation of any nature over or on the

Premises except such operations as are authorized by the Contract Documents or as authorized by the Director.

2-1.15 **DUST CONTROL.** During the performance of all Work under this Contract, the Contractor shall assume all responsibility for dust control and shall furnish all labor, equipment, and means required to carry out proper and efficient measures wherever and whenever dust control is necessary to prevent the operations from producing dust damage and nuisance to persons and property. Any claims resulting from dust damage or nuisance shall be borne solely by the Contractor. The Contractor shall comply with all applicable Air Quality Act requirements.

2-1.16 **SANITATION.** The Contractor shall provide sanitary facilities for all persons working on the Work.

2-1.17 **NIGHT WORK AND NORMAL WORKING HOURS.** Normal working hours at the construction site shall be between the hours of 7:00 a.m. and 7:00 p.m. Monday through Friday. Legal holidays are excluded. Certain utility connections and street operations are anticipated to require night Work by the Contractor during low usage periods. The Contractor may also be required to prosecute the Work at night if, at any time, the Director shall deem it necessary for the progress of the Work, or if emergencies arise. The Contractor shall promptly comply with any such requirements made in writing by the Director. The Contractor will also be permitted to Work at night if Contractor satisfies the Director of the need therefor, in order to maintain the required progress or protect the Work from the elements. Certain activities are required to be performed at night for nominal progress of the Work and/or are specified to be performed at night by other portions of the Supplemental Conditions. When required, ordered, or permitted to Work at night, the Contractor shall provide sufficient and

satisfactory lighting and other facilities therefor. The Contractor shall receive no extra payment for night Work, if specified or if required to be performed during the normal progress of the Work, but compensation shall be considered as having been included in the price stipulated for the Work.

If Contractor performs work during weekends, holidays or any non-normal work hours, Contractor shall pay for required City Inspectors.

2-1.18 **LINES AND GRADES.** Unless otherwise provided in the Supplemental Conditions, the Contractor shall lay out all Work, including structures and pipelines, and shall be responsible for any errors resulting therefrom. In all questions arising as to proper location of lines and grades, the Director's decision will be final.

As part of the bid price for the construction of the improvements, the Contractor shall provide and be responsible for the layout of all Work on this project. The Contractor shall provide all necessary surveys, field staking, and positioning for the construction of all components at the proper alignment, elevations, grades, and positions, as indicated on the Contract Drawings and as required for the proper operation and function. The Contractor shall stake its Work area limits. Contractor shall perform all construction staking using a land surveyor licensed in the State of California. Contractor shall provide a staking plan prior to commencement of Work for the City's review and maintain monuments, stakes, and marks, and shall update the plan as necessary. Director, or Director's designated representative, may verify the field condition. Errors or inconsistencies in the Contract Documents discovered by the Contractor shall be reported to the Director within twenty-four (24) hours and prior to constructive forms or related improvements. Any work Installed with this requirement shall be subject to removal and replacement at the Contractor's expense.

The Contractor's lay-out shall be based on existing structures, property lines, survey control, and bench marks established by the City. All structures and pipeline connections shall be Installed based on actual elevation of existing structures to which connections are made.

The Contractor shall supply such labor as required, at no extra charge, to aid and assist the Director in checking location and grades of the Work as set by the Contractor if the Director desires to perform this checking. This shall include moving materials and equipment located between monuments and the construction Work.

2-1.19 **ARCHEOLOGICAL DISCOVERIES.** Upon discovery of prehistoric or historic artifacts, or other indicators or examples of cultural resources discovered during the course of site preparation, grading, excavation, construction or other development activities, all operations within fifty feet (50') of the find shall cease until such time as the City provides the services of a qualified archeologist to evaluate the finds and recommend appropriate action.

Prehistoric materials can include flaked stone tools (e.g., projectile points, knives and choppers) or tool making debris of obsidian, chert, quartzite and other materials, culturally darkened soil (i.e., midden, which often contains heat affected rock, ash and charcoal, shellfish remains, and cultural materials), and stone milling equipment such as mortars, pestles and hand stones. Historic material may include wood, stone, concrete or adobe footings, walls and other structural remains; debris filled wells or privies; and deposits of wood, metal, glass, ceramics and other refuse.

2-1.20 **PRESERVATION OF MONUMENTS.** Any monuments or bench marks disturbed by construction operations shall be repaired per the City's standard and promptly re-established by a registered land surveyor or civil engineer. A plat for each monument shall be furnished to the Director after the plat has been recorded with the Placer

County Recorder's Office at no additional cost to the City. The recorded plat shall serve as a record of the re-establishment of said existing survey points.

2-1.21 **CONFORMITY WITH CONTRACT DOCUMENTS.** Work and materials shall conform to the lines, grades, cross sections, dimensions and material requirements, including tolerances, required by the Contract Documents. Although measurement, sampling and testing may be considered evidence as to such conformity, the City shall be the sole judge as to whether the Work or materials deviate from the Contract Documents. At its option, the City may elect to accept deviations from the Contract Documents with appropriate backcharge Assessments against the Contractor, and, if such an election is made, the City will provide written notice to the Contractor of such acceptance.

2-1.22 **FINAL CLEANUP.** Prior to final Acceptance of the Work, the Contractor shall thoroughly clean the Premises, remove all temporary structures built by or for the Contractor, and remove all equipment and surplus construction material and debris from the area. The entire project, before Acceptance by the City, shall be left in a neat and clean condition. All Work areas and temporary construction areas shall be returned to essentially the same conditions existing before the commencing of project construction.

2-1.23 **AS-BUILT DOCUMENTS AND DRAWINGS.** The Contractor shall maintain one set of the full size prints furnished by the City and mark thereon in color any deviations from plan dimensions, elevations, or orientations. Also, the Contractor shall locate on said prints, all underground facilities, such as piping, conduits and tanks by accurate field measurement from structure walls, corners, etc. The Contractor shall submit the prints and an electronic CD (searchable PDF or source file format such as AutoCAD) in good condition to the Director upon completion of the job as a condition of Acceptance of the project. Marked prints

shall be updated at least once each week and shall be available to the Director for review as to currency prior to developing partial payment estimates. After the completion of testing, but prior to Acceptance, the Contractor shall submit As-Built electrical drawings in color and an electronic CD showing all components and their wiring, and as specified in the Supplemental Conditions.

2-1.24 **SUPERINTENDENCE.** The Contractor shall supervise and direct the Work, which shall be performed in accordance with the requirements of the Contract Documents. The Contractor shall be solely responsible for implementation of all construction means, methods, techniques, sequences, and procedures and for coordination of all portions of the Work under the Agreement. The Contractor shall be solely responsible for the safety of its employees, Subcontractors of any tier, Suppliers, visitors to the Contractor, and other third parties associated with the Contractor.

The Contractor shall designate in writing before starting Work, an authorized representative who shall have the authority to represent and act for the Contractor.

When the Contractor is comprised of two (2) or more persons, firms, partnerships, or corporations functioning on a joint venture basis, said Contractor shall designate in writing before starting Work, the name of one authorized representative who shall have the authority to represent and act for the Contractor. Instances of misconduct, contract non-compliance, unsatisfactory performance, or incompetence by these personnel shall be grounds for the City to direct Contractor to dismiss them from the Project. Contractor shall immediately comply with the City's request for dismissal, at no cost to the City, and shall designate a replacement, which shall be subject to approval by the City.

Said authorized representative shall be present at the site of the Work at all times while Work is actually in progress on the Contract. When Work is not in progress and during periods

when Work is suspended, arrangements acceptable to the Director shall be made for any Emergency Work that may be required.

Whenever the Contractor or its authorized representative is not present on any particular part of the Work where it may be desired to give direction, orders will be given by the Director, which shall be received and obeyed by the superintendent or foremen who may have charge of the particular Work in reference to which the orders are given.

Any order given by the Director, not otherwise required by the Supplemental Conditions to be in writing, will on request of the Contractor, be given or confirmed by the Director in writing.

2-1.25 **CHARACTER OF WORKER.** If any Subcontractor or person employed by the Contractor shall appear to the Director to be incompetent or to act in a disorderly or improper manner, he or she shall be removed immediately on the requisition of the Director, and such person shall not again be employed on the Work.

2-1.26 **INSPECTION.** The Contractor shall at all times permit the Director to inspect the Work or any part thereof. The Contractor shall maintain proper facilities and provide safe access for such inspection by the Director to all parts of the Work, and to the shops where the Work is in preparation. Work shall not be covered up until authorized by the Director and the Contractor shall be solely responsible for notifying the Director where and when such Work is in readiness for inspection and testing. Should any such Work be covered without authorization, it shall, if so ordered, be uncovered at the Contractor's expense.

Unless otherwise designated as normal working hours, whenever the Contractor intends to perform Work on Saturday, Sunday, or a Legal Holiday, the Contractor shall give notice to the Director of such intention forty-eight (48) hours prior to performing such Work, or such longer

period as may be specified so that the Director may make necessary arrangements.

The observation and/or approval of the workmanship or materials by the City shall not relieve the Contractor of any obligations to fulfill the requirements of the Contract Documents. Workmanship and materials not meeting such requirements shall be corrected and unsuitable Work or material may be rejected, notwithstanding that such Work or materials have been previously observed and/or approved by the City, or payment therefor has been included in a progress estimate.

The City may order re-examination of questioned Work at any time before final Acceptance. If so ordered, the Contractor shall uncover the Work. If such work is found to be in accordance with the Contract Documents, the City will pay for the cost of uncovering, removing, recovering and replacing the parts removed; but if such Work so exposed or examined is not in accordance with the Contract Documents, the uncovering, removal, recovering and replacement shall be at the Contractor's expense. Work that has been covered prior to observation by the City does not qualify as re-examined work; the City may order such work uncovered for observation without payment of any costs.

2-1.27 **REMOVAL OF REJECTED AND UNAUTHORIZED WORK.** All Work which has been rejected shall be remedied, or removed and replaced by the Contractor in a manner acceptable to the Director and no compensation will be allowed the Contractor for such removal, replacement, or remedial Work.

Any Work done beyond the lines shown on the Contract Drawings or established by the Director, or any Work done without written authority will be considered as unauthorized Work and will not be paid for. Upon order of the Director, unauthorized Work shall be remedied, removed, or replaced at the Contractor's expense.

Upon failure of the Contractor to comply promptly with any order of the Director made under this section, the Director may cause rejected or unauthorized Work to be remedied, removed, or replaced, and the costs thereof will be deducted from any moneys due or to become due the Contractor.

SECTION 3

CHANGES IN THE WORK

3-1.01 **CHANGES.** The Director, without invalidating this Agreement and without notice to Contractor's surety, may order changes in the Work, consisting of additions or deletions, or other revisions. The Contract Price and the Contract Time shall be adjusted accordingly. All such changes in the Work, including in the Contract Price and the Contract Time, shall be authorized only by Contract Change Order, signed by the Director.

If Contractor claims that performance of any work entitles it to additional compensation or to an extension of time for performance of the Work, Contractor shall provide written notice to the City of any such claim prior to undertaking such work. Contractor shall provide written notice of any anticipated impacts to the Contract Price or Contract Time within three (3) Days of discovering such impact, by submitting a Notice of Potential Claim described in Section 7-1.03 below, or notice of delay as described in Section 6-1.09 below. If the Director refuses to issue a Change Order for such work, Contractor shall perform that work if directed or obligated to do so and shall submit a complete and specific Claim for additional compensation and/or extension of time for performance within fifteen (15) Days after such work is performed, as described in Section 7-1.03 below. Failure to provide written notice of claims prior to undertaking such work, failure to provide a timely Notice of Potential Claim, or failure to submit timely a complete and specific Claim for additional compensation and/or extension of the time for performance, shall be deemed a waiver and abandonment of any such Claim. No Claim, dispute or controversy shall interfere with the progress or performance of the Work and the Contractor shall proceed with the Work as directed by the Director. Failure to so proceed shall amount to a

default under this Agreement.

3-1.02 **PROPOSED CHANGE ORDERS.** The Contractor will be notified in writing of a proposed Change Order describing the intended change. Within fifteen (15) Days after receipt of a written request, the Contractor shall submit its proposed price to be added or deducted from the Contract Price due to the change and its estimate of the extent of the adjustment in the Contract Time, if any. The Contractor's proposed price to be added to or deducted from the Contract Price shall be supported by a detailed estimate of cost prepared by the Contractor, vendor or Supplier. The Contractor's proposed price submittal shall be accompanied by a statement of the time necessary for the changed Work, together with a description of how this time will be incorporated into the current Construction Schedule. The Contractor shall upon request by the Director permit inspection of its original Contract estimate, subcontract agreements or purchase orders relating to the change.

If agreement is reached on the adjustment in compensation as provided in Section 3-1.05, "Contract Price Adjustment," of these General Conditions, the Contractor shall proceed with the Work as changed at the agreed price.

If the Contractor and the Director fail to agree as to the adjustment in compensation for the performance of the changed Work, the Contractor, upon written order from the Director, shall proceed immediately with the changed Work and the Contract Price shall be adjusted in accordance with Section 3-1.06, "Force Account Payment," of these General Conditions.

If the Contractor fails to submit its cost estimate within such fifteen (15) Day period, the Contractor shall commence the Work as changed immediately upon receipt of written order of the Director, and the Contract Price will be adjusted in accordance with the Director's cost estimate for the changed Work.

3-1.03

EMERGENCY AND INDETERMINATE TYPE CHANGE

ORDERS. Changes in the Work made necessary by an Emergency, as determined by the Director, or changes of a kind where the extent of the Work cannot be determined until completed, may be authorized by the Director in writing. The Change Order shall state that it is issued pursuant to this Section 3-1.03. Upon receipt of an authorized Change Order or other written order of the Director, the Contractor shall proceed with the ordered Work and the Director will maintain a daily job record containing a detailed summary of all labor, materials and equipment required for the changed Work.

Within fifteen (15) Days after receiving a written request, the Contractor shall submit a detailed estimate of cost for the change and any requested change in Contract Time in the same manner as required for proposed Change Orders in Section 3-1.02 of these General Conditions.

3-1.04

EXECUTED CHANGE ORDER.

A Contract Change Order signed by both the Director and the Contractor is an “executed Contract Change Order.” By signing the Contract Change Order, the Contractor agrees that the specified compensation constitutes full compensation for the changed Work, including payment for interruption, disruption, acceleration, extended Overhead, delay or any other “impact” claim or “ripple effect” claim. The Contractor specifically understands and agrees that its execution of the Contract Change Order shall constitute a waiver of any right for the Contractor to claim any additional compensation with respect to the subject matter of the Contract Change Order.

3-1.05

CONTRACT PRICE ADJUSTMENT.

If a Contract Change Order provides for an adjustment to the Contract Price, the amount of such adjustment shall be determined by one of the following methods, or a combination thereof, as determined by the City and in its sole discretion:

A. Lump sum. The Contractor and the City may agree on a lump sum amount for the Change Order. At the City's request, the Contractor will provide pricing for the work. Maximum markups for Contract Change Orders paid for using lump sum pricing shall be paid for in the same manner and in the same amounts as markups for Force Account work, as described in Section 3-1.06 below.

B. Unit Prices. The unit prices set forth in the Contractor's Schedule of Bid Prices will be utilized where they are applicable and acceptable to the City. The Contractor's unit prices shall remain firm and shall not be subject to adjustment unless and until the actual quantity of work is increased or decreased by Contract Change Order in an amount greater than twenty-five percent (25%) from the estimated quantity indicated for such item. No markups will be given for Contract Change Orders paid for using unit prices.

Unit prices for new items included in the Contract Change Order but not included in the original bid shall be as mutually agreed upon or, in the absence of agreement, as determined by the City in the same manner as if the work were to be paid for on a Force Account basis, as described in Section 3-1.06 below.

C. Force Account. Where the City and the Contractor are unable to agree on lump sum pricing and if the City does not elect to utilize the unit prices in Contractor's bid, or such unit prices are not applicable, the changed work will be performed and tracked by the Contractor as Force Account work, as described in Section 3-1.06 below. The City will pay for such work, including markups, properly attributable to the change in accordance with those Force Account provisions.

D. Eliminated Items. The City reserves the right to delete any bid item of Work in its entirety. The City makes no representation that any work under a bid item of Work

will be performed, and all work may be subject to a Contract Change Order that deletes such work. Bid items are distinct and severable from the other bid items, and the Contractor shall not be entitled to any anticipated profit, unabsorbed Overhead, or other indirect expense attributable to the deleted item, except as provided immediately below with regard to Force Account mark-ups on the direct and verifiable costs incurred prior to the City's order that deletes the work.

Should any bid item of Work be eliminated in its entirety and not accounted for as described immediately above and, in the absence of an executed Contract Change Order covering such elimination, payment will be made to the Contractor for actual direct and verifiable costs incurred in connection with such eliminated bid item if incurred prior to the date of notification in writing by the City of such elimination. If acceptable material is ordered by the Contractor for the eliminated item prior to the date of notification of such elimination by the City, and if orders for such material cannot be canceled, it will be paid for at the actual direct and verifiable cost to the Contractor. Actual direct costs shall include documented vendor shipping fees, Supplier restocking fees, if applicable, and Contractor handling costs directly related to the eliminated item(s). In such case, the material paid for shall become the property of the City and the actual cost of any further handling will be paid for by the City. If the material is returnable to the vendor and if the City so directs, the material shall be returned and the Contractor will be paid for the actual direct cost of charges made by the vendor for returning the material. The actual direct cost of handling returned materials will also be paid for by the City. The actual direct and verifiable costs to be paid by the City as provided herein will be computed in the same manner as if the work were to be paid for on a Force Account basis, including the application of Force Account mark-ups to said costs.

3-1.06 **FORCE ACCOUNT PAYMENT.** When Work performed pursuant to a

Change Order is to be paid for on a Force Account basis, the Contractor's labor, materials and equipment used in the performance of such Work shall be subject to the approval of the City, and the compensation will be determined as set forth below in this section.

3-1.06A **LABOR.** The Contractor will be paid an amount based on the actual cost for the workers (including foremen when authorized by the Director) used in the actual and direct performance of the Work. All labor costs associated with Overhead, whether field or home office, are specifically excluded herein, as those labor costs are covered by the below mark-ups. The cost of labor, whether the employer is the Contractor, Subcontractor or other forces, shall include employer payments; assessment of benefits required by lawful labor union collective bargaining agreements; compensation insurance payments; contributions made to the State pursuant to the Unemployment Insurance Code; and for taxes paid to the Federal Government pursuant to the Social Security Act of August 14, 1935, as amended. No labor cost will be recognized at a rate in excess of the wages prevailing in the locality at the time the Work is performed, nor will the use of a labor classification, which would increase the cost, be permitted unless the Contractor establishes to the complete satisfaction of the Director the necessity for payment at a higher rate.

3-1.06B **MATERIALS.** Only materials furnished by the Contractor and necessarily used in the performance of the Work will be paid for. Such cost of materials may include the costs of procurement, transportation and delivery if necessarily incurred. If a cash or trade discount by the actual supplier is available to the Contractor, it shall be credited to the City. If materials are procured by the purchaser by any method which is not a direct purchase from and a direct billing by the actual supplier to such purchaser, the cost of such materials shall be deemed to be the price paid to the actual supplier plus the actual costs, if any, incurred in the

handling of such materials. If the materials are obtained from a supply or source owned wholly or in part by the purchaser, the cost of such materials shall not exceed the price paid by the purchaser for similar materials furnished from said source on Bid items or the current wholesale price for such materials delivered to the job site, less any discounts as provided herein, whichever is lower. If, in the opinion of the Director, the cost of materials is excessive, or if the Contractor fails to furnish satisfactory evidence of the cost to it from the actual supplier within sixty (60) Days after the date of delivery of the materials or within fifteen (15) Days after Acceptance of the Agreement, whichever occurs first, the cost of the materials shall be deemed to be the lowest current wholesale price at which similar materials are available in the quantities required, less any discounts provided herein. The Department reserves the right to furnish such materials required by the Change Order as it deems advisable, and the Contractor shall have no claim for cost or markups on material furnished by the Department.

3-1.06C **EQUIPMENT.** The Contractor will be paid an amount based on the actual cost for the use of equipment directly required and approved by the Director in the performance of the changed Work. No payment will be made for time while equipment is inoperative due to breakdowns or on Days when no Work is performed. In addition, the rental time shall include the time required to move the equipment to the Work from the nearest available source of such equipment, and to return it to the source. If such equipment is not moved by its own power, then loading and transportation costs will be paid. Moving time, loading and transportation costs will only be paid if the equipment is used exclusively on the changed Work during the time between move in and move out. Individual pieces of equipment having a replacement value of One Thousand Dollars (\$1000) or less shall be considered to be tools or small equipment, and no payment will be made therefore. For equipment owned,

furnished, or rented by the Contractor, no cost therefore shall be recognized in excess of the equipment rental rates published by Caltrans at the following website address:

<http://www.dot.ca.gov/hq/construc/equipmnt.html>. Equipment located at a Work Site and utilized on non-Force Account work shall not be eligible for standby payment, and shall be charged on a Force Account basis only when solely performing pre-approved Force Account work tasks.

3-1.06D **MARKUPS.** When a Change Order increases the cost of the Work, the Contractor may add the following maximum markups to its actual costs of labor, materials, or equipment rental:

15 percent for labor;

10 percent for materials; and

5 percent for equipment rental.

The above markups include full compensation, covering the costs of all supervision, bonds, profit, Overhead, and other general expenses not specifically designated as a direct cost in Sections 3-1.06A through 3-1.06C above. The total payment (i.e., direct cost plus applicable markups) shall be deemed to be the actual cost of such work and shall constitute full compensation therefor. The Contractor specifically understands and agrees that such payment shall include any Contractor costs for interruption, disruption, and acceleration, extended Overhead, Change Order management, delay or other “impact” claim or “ripple effect” claim.

When work paid for on a Force Account basis is performed by forces other than the Contractor’s own forces, the maximum allowable mark-ups for the Subcontractors’ costs shall be fifteen percent (15%) for the cost of labor, ten percent (10%) for the cost of materials, and five percent (5%) for the cost of rented equipment. In these situations where the work is being performed by Subcontractors, the Contractor will only be entitled to an additional five percent

(5%) mark-up and will not be entitled to receive the additional mark-ups specified in this section.

When a Change Order decreases the cost of the Work, the reduction in cost shall include a five percent (5%) markup on the estimated cost for furnishing the labor, materials and equipment, which would have been used on such Work, had the Change Order not been issued.

When a Change Order involves both added Work and deleted Work, the markup or markups to be used shall be as follows:

The actual costs of labor, materials, and equipment rental for added and deleted Work shall be calculated separately without adding markups. If the difference between the calculated costs for labor results in an increased cost, a markup of fifteen percent (15%) shall be applied to the increased cost. If the difference between the calculated costs of materials or equipment rental results in an increased cost, a markup of ten percent (10%) and five percent (5%) respectively, shall be applied to the increased costs of materials or equipment rental, as the case may be. If the difference between the calculated costs for labor, materials or equipment rental results in a decreased cost, a markup of five percent (5%) shall be applied to the decreased costs of labor, materials or equipment rental, as the case may be.

Contractor shall not add mark-ups on work performed and billed by City staff nor add mark-ups to successive iterations of proposed Change Order cost proposals returned to Contractor by the City due to incomplete or inaccurate information being originally submitted by the Contractor. If the Contract Price increases by the issuance of Change Orders, the penal amounts of the bonds required shall increase accordingly.

3-1.06E **RECORDS.** The Contractor shall maintain its records in such a manner as to provide a clear distinction between the direct costs of extra work paid for on a Force Account basis and the costs of other operations.

From the above records, the Contractor shall furnish the City completed daily extra work reports, on forms acceptable to the City, for each Day's extra work to be paid for on a Force Account basis. The daily extra work reports shall itemize the materials used, and shall cover the direct cost of labor and the charges for equipment rental, whether furnished by the Contractor, Subcontractor, or other forces. The daily extra work reports shall provide names and identifications and classifications of workers, the hourly rate of pay and hours worked, and also the size, type, and identification number of equipment, and hours operated. Daily extra work and Force Account reports (actual or claimed) shall be signed by both the City's and the Contractor's representatives within twenty-four (24) hours of the performance of the work.

Valid copies of vendor's invoices shall substantiate material charges. Such invoices shall be submitted with the daily extra work reports, or if not available, they shall be submitted with subsequent daily extra work reports. Should said vendor's invoices not be submitted within sixty (60) Days after the date of delivery of the material or within fifteen (15) Days after the Acceptance of the Agreement, whichever occurs first, the City reserves the right to establish the cost of such materials at the lowest current wholesale prices at which said materials were available in the quantities, less any discounts.

The City will compare its records with the completed daily extra work reports furnished by the Contractor and make any necessary adjustments. When these daily extra work reports are agreed upon and signed by both parties, said reports shall become the basis of payment for the work performed, but shall not preclude subsequent adjustment based on a later audit by the City.

The Contractor's cost records pertaining to Work paid for on a Force Account basis shall be open to inspection or audit by representatives of the City during the life of the Agreement and for a period of not less than three (3) years after the date of Agreement completion and the

Contractor shall retain such records for that period. Where payment for materials or labor is based on the cost thereof to forces other than the Contractor, the Contractor shall make every reasonable effort to insure that the cost records of such other forces will be open to inspection and audit by representatives of the City on the same terms and conditions as the cost records of the Contractor. If an audit is to be commenced more than sixty (60) Days after the date of Acceptance of the Agreement, the Contractor will be given fifteen (15) Days' notice of the time when such audit is to begin.

3-1.07 **COST REDUCTION PROPOSALS.** The City encourages the Contractor to submit Cost Reduction Proposals whenever the Contractor identifies areas and/or instances in which there can be savings to the Work. Contractor may submit to the City, in writing, proposals for modifying the plans, Specifications or other requirements of the Agreement for the sole purpose of reducing the total cost of construction, including the time for completion of the Work. The City may consider such Cost Reduction Proposals and, if accepted, the Agreement will be equitably adjusted. The City has no obligation to consider or accept Cost Reduction Proposals.

SECTION 4

CONTROL OF MATERIALS

4-1.01 **MATERIALS.** The Contractor shall furnish all materials required to complete the Work, except materials that are designated in the Supplemental Conditions to be furnished by the City and materials furnished by the City in accordance with Section 3, “Changes in the Work,” of these General Conditions.

Unless otherwise specified in the Supplemental Conditions, materials furnished by the Contractor for incorporation into the Work shall be new. When the quality or kind of materials, articles, or equipment is not particularly indicated, then the quality or kind thereof shall be similar to those that are indicated.

Articles or materials to be incorporated in the Work shall be stored in such a manner as to insure the preservation of their quality and fitness for the Work, and to facilitate inspection.

All materials which do not conform to the requirements of the Contract Documents as determined by the Director, will be rejected whether in place or not. Rejected material shall be removed immediately from the site of the Work, unless otherwise permitted by the Director. No rejected material, the defects of which have been subsequently corrected, shall be used in the Work, unless approval in writing has been given by the Director. Upon failure of the Contractor to comply promptly with any order of the Director made under these provisions, the Director shall have the authority to cause the removal and replacement of rejected material and to deduct the cost thereof from any moneys due or to become due the Contractor.

Manufacturer's warranties, guaranties, instruction sheets and parts lists, which are furnished with certain materials incorporated in the Work, shall be delivered to the Director

before Acceptance of the Contract.

Unless otherwise designated in the Supplemental Conditions or Specifications, materials furnished by the City will be delivered to the job site. Materials furnished by the City that are designated in the Supplemental Conditions as available at locations other than the job site shall be hauled to the site of the Work by the Contractor at its expense, including any necessary loading and unloading that may be involved.

The Contractor will be held responsible for all materials furnished to it, and shall pay all demurrage and storage charges. City-furnished materials lost or damaged from any cause whatsoever shall be replaced by the Contractor. The Contractor will be liable to the Department for the cost of replacing City-furnished material and such costs may be deducted from any moneys due or to become due the Contractor.

4-1.02 **PRODUCT AND REFERENCE STANDARDS.** When descriptive catalog designations, including manufacturer's name, product brand name, or model number are referred to in the Contract Documents, such designations shall be considered as being those found in industry publications in effect on the day the Notice to Contractors for the Work is dated, except as may be otherwise stated.

When standards or test designations of the Federal Government, trade societies, or trade associations are referred to in the Contract Documents by specific date of issue, these shall be considered as part of the Contract. When such references do not bear a date of issue, the edition in effect on the day the Notice to Contractors for the Work is dated shall be considered as part of the Contract.

4-1.03 **SAMPLING AND TESTING OF MATERIALS.** Unless otherwise specified, all tests shall be performed in accordance with the methods used by the State

Department of Transportation (Caltrans) and shall be made by the Director or his or her designated representative.

The State Department of Transportation has developed test methods for testing the quality of materials and Work. These test methods are identified by a California Test followed by the serial number. Copies of individual tests are available at the State Department of Transportation Laboratory, Sacramento, California, and will be furnished to interested persons upon request.

Whenever a reference is made in the Supplemental Conditions to a California Test by number, it shall mean the California test in effect on the day the Notice to Contractors for the Work is dated.

Whenever the Supplemental Conditions provide an option between two (2) or more test methods, the Director will determine the test method to be used.

Whenever a Supplemental Condition, manual, or test designation provides for test reports (such as certified mill test reports) from the manufacturer, copies of such reports, identified as to the lot of material, shall be furnished to the Director. The manufacturer's test reports shall supplement the inspection, sampling and testing provisions of this Section 4-1.03 and shall not constitute a waiver of the City's right to inspect. When material which cannot be identified with specific test reports is proposed for use, the Director may at his or her discretion, select random samples from the lot for testing. Testing specimens from the random samples, including those required for retest, shall be prepared in accordance with the referenced Supplemental Conditions and furnished by the Contractor at its expense. The number of such samples and test specimens shall be entirely at the discretion of the Director.

When requested by the Director, the Contractor shall furnish, without charge, samples of

all material entering into the Work, and no material shall be used prior to approval by the Director, except as provided in Section 4-1.04, "Certificates of Compliance," of these General Conditions.

A. Inspection and Access for Testing. The Contractor shall provide safe access for the Director and his or her inspectors to adequately inspect the quality of Work and conformance with the General and Supplemental Conditions. The Contractor shall provide adequate lighting, ventilation, ladders and other protective facilities as may be necessary for the safe performance of inspections.

The Contractor shall submit samples or specimens of such materials to be furnished or used in the Work as the Director may require. The Contractor shall furnish the Director all necessary labor and facilities for such things as excavation in the compacted fill to depths required to take samples.

Inspections, tests, or favorable review by the Director or others shall not relieve the Contractor from its obligations to perform the Work in accordance with the requirements of the Contract Documents.

Work covered without the favorable review or consent of the Director shall, if required by the Director, be uncovered for examination at the Contractor's expense.

If the Engineer, Architect, or Director considers it necessary or advisable that covered Work be inspected or tested by others, the Contractor, at the Director's request, will uncover, expose or otherwise make available for observation, inspection or testing as the Director may require, that portion of the Work in question, furnishing all necessary labor, materials, tools, and equipment. If it is found that such Work is defective, the Contractor will bear all the expenses of such uncovering, exposure, observation, inspection and testing and of

satisfactory reconstruction. If, however, such Work is not found to be defective and the Work was not covered without favorable review of the Director, the Contractor will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, to cover its costs directly attributable to such uncovering, exposure, observation, inspection, testing, and reconstruction and an appropriate Change Order shall be issued.

Whenever the Contractor varies the period during which Work is carried on each Day, the Contractor shall give due notice to the Director so that proper inspection may be provided. Any Work done in the absence of the Director may be subject to rejection. Proper facilities for safe access for inspection to all parts of the Work shall at all times be maintained for the necessary use of the Director and other agents of the City. Authorized representatives and agents of the Director shall be permitted access to inspect all Work and materials wherever it is required for preparation of progress reports, and the Contractor shall provide proper facilities for such access and inspection.

It is the Contractor's responsibility to supervise the Work and complete the project in accordance with the Contract Documents. In the course of managing that effort, the Contractor shall generate its own punch lists as deemed necessary. The Director may prepare punch lists for the Director's own use in communicating with the Contractor; however, the Director shall be under no obligation to prepare punch lists for the Contractor. In general, the Director will prepare punch lists only after the Contractor has given the Director written notice that the subject Work is completed and tested in accordance with the Contract Documents and is ready for operation and/or use and/or occupancy. Failure of the Director to include an item in a punch list shall not relieve the Contractor of its duty to satisfactorily complete all Work required by the Contract Documents.

Upon Final Completion of the construction Work and request by the Contractor, the Director will conduct a final inspection as a basis for recommending to the City that the Work be accepted.

B. Field and Materials Testing. Where the Supplemental Conditions require Work to be specially field tested or approved, it shall be tested only in the presence of the Director after timely notice of its readiness for inspection and test, and the Work after testing shall be covered up only upon the consent thereto of the Director.

The results of any tests made are for the information of the Director. Regardless of any test results, the Contractor is solely responsible for the quality of workmanship and materials and for compliance with the requirements of the Contract Drawings and Supplemental Conditions.

Except as specifically required under the Supplemental Conditions, all tests by the Director of materials furnished by the Contractor will be done in accordance with commonly recognized standards of national organizations. The Contractor shall furnish such samples of all materials as required by the Director without charge. No material shall be used unless it has been favorably reviewed by the Director.

Where such inspection and testing are to be conducted by an independent Laboratory or agency, the sample or samples of materials to be tested shall be selected by such Laboratory or agency, or the Director, and not by the Contractor.

C. Costs of Testing.

1. Initial Services: The City shall furnish and pay for all initial testing services required by the Contract Documents. When initial tests indicate non-compliance with the Contract Documents, the cost of initial tests associated with that non-compliance will be

deducted by the City from the balance owed the Contractor. The Contractor shall furnish samples of materials for testing as may be required by the Director. Such samples shall be furnished without cost to the City.

2. Retesting: When initial tests indicate non-compliance with the Contract Documents, all subsequent retesting occasioned by the non-compliance shall be performed by the same testing Laboratory and the cost thereof will be deducted by the City from the balance owed the Contractor. Contractor shall be billed for each additional test.

3. Contractor Convenience Testing: Inspection or testing performed exclusively for the Contractor's convenience shall be the sole responsibility of the Contractor.

4. Additional Tests and Inspections: When in the opinion of the Director additional tests or inspections are required because of the manner in which the Contractor executes its Work, such tests and inspections shall be paid for by the City, but will be deducted from the Contract Price. Examples of such tests and inspections are tests of materials substituted for previously accepted materials or substituted for specified materials, retests made necessary by failure of material to comply with the requirements of the Specifications, load tests made necessary because of portions of the structure not fully meeting Specifications or plan requirements, etc.

4-1.04 **CERTIFICATES OF COMPLIANCE.** A Certificate of Compliance shall be furnished prior to the use of any materials for which the Supplemental Conditions require that such a Certificate be furnished. In addition, the Director may permit the use of certain materials or assemblies prior to sampling and testing if accompanied by a Certificate of Compliance. The Certificate shall be signed by the manufacturer of the material or the manufacturer of assembled materials and shall state that the materials involved comply in all

respects with the requirements of the Supplemental Conditions. A Certificate of Compliance shall be furnished with each lot of such materials delivered to the Work and the lot so certified shall be clearly identified in the Certificate.

All materials used on the basis of a Certificate of Compliance may be sampled and tested at any time. The fact that material is used on the basis of a Certificate of Compliance shall not relieve the Contractor of responsibility for incorporating material in the Work which conforms to the requirements of the Contract Documents and any such material not conforming to such requirements will be subject to rejection whether in place or not.

The Department reserves the right to refuse to permit the use of material on the basis of a Certificate of Compliance.

The form of the Certificate of Compliance and its disposition shall be as directed by the Director.

SECTION 5

LEGAL RELATIONS AND RESPONSIBILITY

5-1.01 **LAWS TO BE OBSERVED.** The Contractor shall keep informed of and observe, and comply with and cause all of its agents and employees to observe and comply with, all prevailing Federal and State laws, and rules and regulations made pursuant to said Federal and State laws, and county and municipal ordinances, and regulations, which in any way affect the conduct of the Contract. If any conflict arises between provisions of the Contract and any such law above referred to, the Contractor shall notify the Director at once in writing. To the fullest extent allowed by law, the Contractor shall defend, indemnify, and save and hold harmless the City or any of its officers, agents, employees, and volunteers against any claim or liability arising from or based on the violation of any such law, rule, or regulation, whether by itself or its agents or employees.

5-1.02 **HOURS OF LABOR.** Eight (8) hours labor constitutes a legal Day's work. The Contractor or Subcontractor shall, as a penalty to City, forfeit Twenty-five Dollars (\$25) for each worker employed in the execution of the contract by the respective Contractor or Subcontractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one (1) calendar day and forty (40) hours in any one (1) calendar week in violation of the provisions of the Labor Code, and in particular, Section 1810 to Section 1815, thereof, inclusive, except that Work performed by employees of Contractors in excess of eight (8) hours per day, and forty (40) hours during any one (1) week, shall be permitted upon public work upon compensation for all hours worked in excess of eight (8) hours per day at not less than one and one-half (1-1/2) times the basic rate of pay, as provided in said

Section 1815. In addition, Contractor and/or its Subcontractors may be required to pay double the basic rate of pay for all hours worked in excess of twelve (12) hours in any workday and under other circumstances. (See California Code of Regulations, Title 8, Sections 16100(c)(6) and (16200(a)(3)(F) and applicable Department of Industrial Relations prevailing wage determinations.)

5-1.03 **NONDISCRIMINATION.**

A. Attention is directed to Labor Code Section 1735, which reads as follows:

“A contractor shall not discriminate in the employment of persons upon public works on any basis listed in subdivision (a) of Section 12940 of the Government Code, as those bases are defined in Sections 12926 and 12926.1 of the Government Code, except as otherwise provided in Section 12940 of the Government Code. Every Contractor for public works who violates this section is subject to all the penalties imposed for a violation of this chapter.”

B. During the performance of this Contract, Contractor and its Subcontractors shall not unlawfully discriminate against any employee or applicant for employment because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status. The Contractor and Subcontractors shall insure that the evaluation and treatment of their employees and applicants for employment are free of such discrimination. The Contractor and Subcontractors shall comply with the provisions of the California Fair Employment and Housing Act (Government Code §12900, et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, §7285.0 et seq.) and other applicable State and Federal regulations and City

policies pertaining to nondiscrimination and affirmative action which are incorporated into this Agreement by reference and made a part hereof as if set forth in full. The Contractor and its Subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement.

C. Contractor shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform Work under the agreement.

5-1.04 **PREVAILING WAGE.** The Contractor and any Subcontractor shall comply with Labor Code Sections 1770 et seq. In accordance with said Section 1775 the Contractor and any Subcontractor under the Contractor shall, as a penalty, forfeit to the state or City not more than \$200 for each calendar day or portion thereof, for each worker paid less than the prevailing rate as determined by the Director of Industrial Relations for the work or craft in which such worker is employed for under the Contract by the Contractor or by any Subcontractor under the Contractor.

The amount of the penalty shall be determined by the Labor Commissioner based on consideration of both of the following: (a) whether the failure to pay the correct rate of per diem wages was a good-faith mistake and, if so, whether the error was promptly and voluntarily corrected when brought to the attention of the Contractor or Subcontractor; and (b) whether the Contractor or Subcontractor has a prior record of failing to meet its prevailing wage obligations.

The penalty may not be less than forty dollars (\$40) for each calendar day, or portion thereof, for each worker paid less than the prevailing wage rate, unless the failure of the Contractor or Subcontractor to pay the correct rate of per diem wages was a good faith mistake and, if so, the error was promptly and voluntarily corrected when brought to the attention of the Contractor or Subcontractor.

The penalty may not be less than eighty dollars (\$80) for each calendar day, or portion thereof, for each worker paid less than the prevailing wage rate, if the Contractor or Subcontractor has been assessed penalties within the previous three (3) years for failing to meet its prevailing wage obligations on a separate contract, unless those penalties were subsequently withdrawn or overturned.

The penalty may not be less than one hundred twenty dollars (\$120) for each calendar day, or portion thereof, for each worker paid less than the prevailing wage rate, if the Labor Commissioner determines that the violation was willful, as defined in subdivision (c) of Section 1777.1 of the Labor Code.

If the amount due under this section is collected from the Contractor or Subcontractor, any outstanding wage claim under Chapter 1 (commencing with Section 1720) of Part 7 of Division 2 of the Labor Code against the Contractor or Subcontractor shall be satisfied before applying that amount to the penalty imposed on that Contractor or Subcontractor pursuant to this section.

The determination of the Labor Commissioner as to the amount of the penalty shall be reviewable only for an abuse of discretion.

In addition to said penalty, the difference between such stipulated prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the stipulated prevailing wage shall be paid to each worker by the Contractor or Subcontractor.

If a worker employed by a Subcontractor on a public works project is not paid the general prevailing per diem wages by the Subcontractor, the Contractor is not liable for any penalties described above unless the Contractor had knowledge of that failure of the Subcontractor to pay

the specified prevailing rate of wages to those workers or unless the Contractor fails to comply with all of the following requirements:

1. The contract executed between the Contractor and the Subcontractor for the performance of work on the public works project shall include a copy of the provisions of Sections 1771, 1776, 177.5, 1813, and 1815 of the Labor Code.
2. The Contractor shall monitor the payment of the specified general prevailing rate of per diem wages by the Subcontractor to the employees, by periodic review of the certified payroll records of the Subcontractor.
3. Upon become aware of the Subcontractor's failure to pay its workers the specified prevailing rate of wages, the Contractor shall diligently take corrective action to halt or rectify the failure, including, but not limited to, retaining sufficient funds due the Subcontractor for work performed on the public works project.
4. Prior to making final payment to the Subcontractor for work performed on the public works project, the Contractor shall obtain an affidavit signed under penalty of perjury from the Subcontractor that the Subcontractor has paid the specified general prevailing rate of per diem wages to its employees on the public works project and any amount due pursuant to 1813 of the Labor Code.

Pursuant to Section 1775 of the Labor Code, the Division of Labor Standards Enforcement shall notify the Contractor on a public works project within fifteen (15) Days of the receipt by the Division of Labor Standards Enforcement of a complaint of the failure of a Subcontractor on that public works project to pay workers the general prevailing rate per diem wages.

Pursuant to the provisions of California Labor Code Section 1773, the City has obtained

the general prevailing rate of wages applicable to the categories of workers the City anticipates will be utilized for this project for straight time, overtime, Saturday, Sunday, and holiday Work. The holiday wage rate listed shall be applicable to all holidays recognized in the collective bargaining agreement of the particular craft, classification or type of worker concerned or, if no collective bargaining applies, those holidays identified in Government Code Section 6700. These wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>, which is incorporated herein as a part of this Contract.

Pursuant to Labor Code Section 1773.2, the general prevailing wage rates set forth above, which forms a part of this Contract, shall be posted by the Contractor at a prominent place at the site of the Work.

Pursuant to Labor Code Section 1773.6 and California Code of Regulations Section 16204, Title 8, changes in general prevailing wage determinations shall apply to the project only if issued by the Director of Industrial Relations prior to the City's bid issuance date.

The City will not recognize any claim for additional compensation because of the payment by the Contractor of any wage rate in excess of the prevailing wage rate set forth in the Contract. The possibility of wage increases is one of the elements to be considered by the Contractor in determining its Bid, and will not under any circumstances be considered as the basis of a claim against the City or Contract.

When both California and Federal prevailing wage rates apply, the Contractor and any Subcontractors shall pay their workers the higher of the two rates. The Contractor and any Subcontractors shall insert this clause in any lower tier contract.

5-1.05 **REGISTRATION REQUIRED AS QUALIFICATION TO BID.**

Pursuant to Labor Code Section 1771.1(b), notice is hereby given that a Contractor or Subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contractor for public work, as defined in Labor Code Sections 1720, et seq., unless currently registered and qualified to perform public work pursuant to Labor Code Section 1725.5. It is not a violation of Labor Code Section 1771.1 for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5.

5-1.06 **PAYROLL RECORDS.** The Contractor's attention is directed to the following provisions of Labor Code Section 1776. The Contractor shall be responsible for the compliance with these provisions by its Subcontractors.

A. The Contractor and each Subcontractor shall keep accurate and current payroll records, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by it in connection with the public work. Each payroll record shall contain or be verified by a written declaration that is made under penalty of perjury, stating both of the following:

1. The information contained in the payroll record is true and correct.
2. The employer has complied with the requirements of Section 1771, 1811, and 1815 for any work performed by his or her employees on the public works project.

B. The payroll records enumerated under subdivision (A) shall be available for inspection at all reasonable hours at the principal office of the Contractor on the following

basis:

1. A certified copy of an employee's payroll record shall be made available for inspection or furnished to such employee or his or her authorized representative on request.

2. A certified copy of all payroll records enumerated in subdivision (A) shall be made available for inspection or furnished upon request to a representative of the City, the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the Department of Industrial Relations. The City reserves the right to withhold any progress payments to the Contractor in the event of noncompliance with the subsection.

3. A certified copy of all payroll records enumerated in subdivision (A) shall be made available upon request by the public for inspection or for copies thereof. However, a request by the public shall be made through either the City, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. The public shall not be given access to such records at the principal office of the Contractor.

C. The certified payroll records shall be on forms provided by the Division of Labor Standards Enforcement or shall contain the same information as the forms provided by the Division.

D. Each Contractor shall file a certified copy of the records enumerated in subdivision (A) with the entity that requested the records within ten (10) Days after receipt of a written request.

E. Any copy of the records made available for inspection as copies and furnished upon request to the public or any public agency by the City, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement shall be marked or

obliterated to prevent disclosure of an individual's name, address and social security number. The name and address of the Contractor awarded the Contract or Subcontractor performing the Contract shall not be marked or obliterated. Any copy of records made available for inspection by, or furnished to, a joint labor-management committee established pursuant to the federal Labor Management Cooperation Act of 1978 (Section 175a of Title 29 of the United States Code) shall be marked or obliterated only to prevent the disclosure of an individual's name and social security number. A joint labor-management committee may maintain an action in a court of competent jurisdiction against an employer who fails to comply with Section 1774. The court may award restitution to an employee for unpaid wages and may award the joint labor-management committee reasonable attorneys' fees and costs incurred in maintaining the action. An action under this subdivision may not be based on the employer's misclassification of the craft of a worker on its certified payroll records. Nothing in this subdivision limits any other available remedies for a violation of this section.

F. The Contractor shall inform the City of the location of the records enumerated under subdivision (A), including the street address, city and county, and shall, within five (5) business days, provide a notice of a change of location and address.

G. The Contractor shall have ten (10) Days in which to comply subsequent to receipt of written notice requesting the records enumerated in subdivision (A). In the event that the Contractor or Subcontractor fails to comply within the ten (10) Day period, the Contractor shall, as a penalty to the State or City, forfeit twenty-five (\$25) Dollars for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from any progress payment or final payment then due. A contractor

is not subject to a penalty assessment pursuant to this section due to the failure of a Subcontractor to comply with this section.

5-1.07 **SAFETY REQUIREMENTS.** It is the intent of the parties that the City is not an exposing, creating, controlling, or correcting employer under California Labor Code Section 6400. In accordance with generally accepted construction practices and State law, the Contractor shall have the authority and be solely and completely responsible for conditions on the Work Site, including safety of all persons and property during performance of the Work. Moreover, the Contractor shall be the controlling employer and has the authority and responsibility to enforce Work Site safety. The Contractor shall be responsible for conducting daily safety inspections and assuring all hazards and violations are abated. The Contractor is responsible for assuring that all Subcontractors adhere to the minimum Cal/OSHA safety requirements and that each Subcontractor has an effective Cal/OSHA IIPP (Illness and Injury Prevention Program) in place that specifically addresses all potential exposures, such as, but not limited to, fall protection, confined space, and trenching/shoring. These requirements shall apply continuously and not be limited to normal working hours. The Contractor shall be responsible for any delay costs or damages in the event the progress of Work is slowed or stopped due to a safety violation.

The Contractor shall designate a safety officer and have in place a health and safety plan in accordance with the laws of State of California and conduct safety meetings and document them in accordance with the law. The Contractor shall have the safety record available for inspection during working hours and shall submit job site safety meeting reports with each Application for Payment.

Prior to Contractor commencing construction project work on City property, Contractor

shall make available copies of its Health and Safety Plan (HASP) that meets or exceeds applicable Cal/OSHA regulations. The Contractor's HASP shall also meet or exceed the requirements of any applicable City-wide or departmental specific Injury and Illness Prevention Programs (IIPP) and other HASP programs, procedures, and plans. Potentially applicable HASP programs, procedures, and plans include, but are not limited to, the following:

1. Bloodborne Pathogens Exposure Control Plan;
2. Confined Space Entry Procedure;
3. Electrical Safety Program (Lockout/Tagout);
4. Emergency Action Plans (Site Specific);
5. Fire Prevention Plans (Site Specific);
6. Hazardous Waste Operations Emergency Response Plan (or Equivalent);
7. Hazard Communication Program (SDS's and Right-to-Know training);
8. Heat Illness & Prevention Plan;
9. Hearing Conservation Program;
10. Hot Work/Welding Procedure;
11. Job Hazard Analyses/Standard Operating Procedures;
12. Traffic Control & Flagging;
13. Excavation/Dig Safe Procedure;
14. Fall Protection Plan;
15. Personal Protective Equipment Plan;
16. Respirable Crystalline Silica Exposure Control Plan;
17. Respirator Program;
18. Soils Management Plan (for contaminated soils); and

19. Transite (Asbestos) Pipe Work Procedure.

Additionally, Contractor shall be responsible for complying with all City-wide and departmental specific safety requirements as identified in the Supplemental Conditions or presented at a pre-construction meeting.

Contractor shall inform City in advance of the quantity of chemical(s) to be used for the project and the total quantity of chemical(s) that will be brought onto City property. In addition, Contractor shall provide City with one copy of the Safety Data Sheet (SDS) for each chemical expected to be used to complete the project and for each chemical brought to the Work Site, regardless of whether such chemicals are ultimately used for the project.

The services of the Director in conducting construction review of the Contractor's performance is not intended to include review of the adequacy of the Contractor's Work methods, equipment, bracing or scaffolding, or safety measures, in, on, or near the construction site. If a City employee observes a safety violation, the City employee will report the violation to the Contractor who is then responsible for assuring the violation is abated.

The Contractor is hereby informed that Work on this project could be hazardous. The Contractor shall carefully instruct all personnel working in potentially hazardous Work areas as to potential dangers and shall provide such necessary safety equipment and instructions as are necessary to prevent injury to personnel and damage to property. Special care shall be exercised relative to Work underground.

All Work and materials shall be in strict accordance with all applicable State, City, County, and Federal Rules, Regulations, and Codes, and attention is drawn to the requirements of Cal/OSHA. The Contractor shall be solely responsible for compliance with all City, County and State blasting requirements and for any damages caused by its operations.

To ensure compliance with California Labor Code Section 6705, the Contractor shall submit to the City, at least five (5) Days in advance of excavation of any trench five feet (5') or more in depth, Working Drawings to the Director showing the design of shoring, bracing, sloping and other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trench or trenches. If such Working Drawings vary from the shoring system standards established by the Cal/OSHA Construction Safety Orders of the Division of Industrial Safety, the plan shall be prepared and signed by a registered civil or structural engineer in the State of California. This in no way relieves the Contractor from the requirement of maintaining safety in all operations performed by the Contractor or the Contractor's Subcontractors and nothing in this section shall be deemed to allow the use of a shoring, sloping or protective system less effective than that required by the Cal/OSHA Construction Safety Orders of the Division of Industrial Safety Contractor's Working Drawings shall be subject to approval insofar as the details affect the character of the finished Work and for compliance with design requirements applicable to the construction when specified or called for, but details of the design will be left to Contractor who shall be responsible for the successful construction of the Work. The City shall approve Working Drawings before any Work involving such drawings is performed. Approval and/or acceptance by the City or its designated agent only constitutes acknowledgment of the submission and does not constitute review or approval of the designs, design assumptions or criteria, completeness of submissions, applicability to areas of intended use, nor implementation of the plans, which are solely the responsibility of the Contractor and its registered engineer.

The Contractor shall perform its Work as not to expose personnel to, or to discharge into the atmosphere from any source whatever, smoke, dust, asbestos, toxic chemicals or other air

contaminants in violation of the laws, rules, and regulations of the governmental entities having jurisdiction and shall bear full and exclusive responsibility for any release of hazardous or non-hazardous chemicals or substances during the course of the Work. The Contractor shall immediately report any such release to the City. The Contractor shall be solely responsible for all claims and expenses associated with the response to, removal and remediation of the release, including, without limitation, payment of any fines or penalties levied against the City by any agency as a result of such release and shall defend, indemnify, and save and hold harmless the City, its officers, agents, employees, and volunteers from any claims arising from such release. For purposes of this section only, the term “claims” shall include:

1. All notices, orders, directives, administrative or judicial proceedings, fines, penalties, fees, or charges imposed by any governmental agency with jurisdiction; and
2. Any claim, cause of action, or administrative or judicial proceeding brought against the City, its officers, agents, employees, and volunteers for any loss, cost (including reasonable attorneys’ fees), damage or liability, sustained or suffered by any person or entity, including the City.

If the performance of the Work creates any hazardous wastes, those wastes shall be properly disposed of according to federal, state, and local laws, at the expense of the Contractor. The Contractor shall dispose of the wastes under its own EPA Generator Number. In no event shall the City be identified as the generator. The Contractor shall notify the City of any such hazardous wastes and the City reserves the right to a copy of the results of any tests conducted on the wastes, and, at its cost, to perform additional tests or examine those wastes, prior to disposition. The Contractor shall defend, indemnify, and save and hold harmless the City, its

officers, agents, employees, and volunteers from any claims arising from the disposal of the hazardous wastes, regardless of the absence of negligence or other malfeasance by the Contractor. Disposal of all Hazardous Materials must be done in accordance with all laws and regulations. Copies of required regulatory documentation including copies of final manifests shall be supplied to the City.

Contractors or Subcontractors removing one hundred or more square feet (100') of asbestos must be "Certified" in accordance with State law. All Work involving exposure to asbestos and all other hazardous materials shall be performed with protection of personnel in compliance with all applicable regulations and safety requirements including, but not limited to, California Code of Regulations Section 1529, Title 8.

Nothing in these General Conditions is to be construed to permit Work not conforming to governing codes. When Contract Documents differ from governing codes, the Contractor shall furnish and Install the higher standards called for without extra charge.

5-1.08 **SUBSURFACE EXCAVATIONS, NOTIFICATION.** The Contractor shall contact the regional notification center, "Underground Service Alert," and schedule its Work to allow ample time for the center to notify its members and, if necessary, for any member to field locate and mark its facilities. Without limiting the foregoing, the Contractor's attention is directed to Government Code Sections 4216 to 4216.9, and in particular Section 4216.2.

5-1.09 **PUBLIC SAFETY.** The Contractor shall assume all responsibility for public safety during the performance of its Work, and all costs arising therefrom shall be included in the Contract Price. Whenever the Contractor's operations create a condition hazardous to traffic or to the public, it shall furnish, erect and maintain, at its expense, such fences, barricades, lights, signs, and other devices and take such other protective measures as are

necessary to prevent accidents or damage or injury to the public. The Contractor shall establish the pedestrian detours with comparable lighting to the original pedestrian areas. The Contractor shall arrange for such flaggers as are necessary to give adequate warning to traffic or to the public of any dangerous conditions affecting traffic. For Work in a public right-of-way, the Contractor shall comply with the rules and regulations of the State, County, or local agency that owns the right-of-way.

The Contractor shall promptly and fully comply with and carry out, and shall without separate charge therefor to the City, all safety and first aid requirements prescribed by all applicable Federal, State, and local laws and regulations, rules, and orders. The Work shall be done in a safe manner; and the Contractor shall safeguard the safety and health of its employees, Subcontractors, and the people of local communities. The Contractor shall also be reasonable for ensuring that its Subcontractors comply with the provisions of this section.

Upon the failure of the Contractor to comply with any of the requirements of this section, the City shall have the authority, but not the duty, to stop the Work until such failure is remedied. The Contractor shall not be entitled to an adjustment of the Contract Time or an increase in the Contract Price due to any such suspensions.

When required by the Contract Documents, the Contractor shall construct, maintain, and remove detours for use of public traffic, without additional cost to the City, unless separate payment is specified in the Special Provisions.

The failure or refusal of the Contractor to construct and maintain detours at the proper time shall be sufficient cause for closing down the work until such detours are in satisfactory condition for use by public traffic.

Due care shall be exercised to avoid injury to existing improvements or facilities, utility

facilities, adjacent property and trees, shrubs, and other plants that are not to be removed.

Trees, shrubs and other plants that are not to be removed, and pole lines, fences, signs, survey markers and monuments, buildings and structures, conduits, pipe lines, sewer and waterlines, highway facilities, and any other improvements or facilities, under or above ground, that are within or adjacent to the work limit line shall be protected from injury or damage, and the Contractor shall provide and Install suitable safeguards to protect such objects from injury or damage. If such objects are injured or damaged by reason of the Contractor's operations, they shall be replaced or restored at the Contractor's expense. The facilities shall be replaced or restored to a condition as good as when the Contractor entered upon the Work Site, or as good as required by the Contract Documents if any such objects are part of the Work. The City may make or cause to be made such temporary repairs as are necessary to restore to service any damaged facility. The cost of such repairs shall be borne by the Contractor, and the costs may be deducted from any monies due or to become due to the Contractor under the Agreement.

The fact that any underground facilities is not shown on the Contract Drawings shall not relieve the Contractor of its responsibility pursuant to "Utility Facilities" in Section 2-1.12 elsewhere in the Contract Documents. It shall be the Contractor's responsibility, pursuant thereto, to ascertain the location of such underground improvements or facilities, which may be subject to damage by reason of its operations.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the Work involved in protecting or repairing property as specified in this section, shall be considered as included in the prices paid for the various Contract items of work and no additional compensation will be allowed therefor.

5-1.10 **EMERGENCIES.** In an Emergency affecting the safety of life, the

Work, or adjoining property, the Contractor, without special instructions or authorization from the City, shall act at its discretion to prevent such threatened loss or injury. In such an Emergency, the Contractor may perform such additional work as is reasonably required. Any compensation claimed by the Contractor on account of Work performed to an Emergency shall be determined in accordance with the provisions relating to Force Account payment contained elsewhere in the Contract Documents.

5-1.11 **APPRENTICES.** Attention is directed to Labor Code Sections 1777.5, 1777.6 and 1777.7 and Title 8, California Code of Regulations Section 200 et seq. In accordance with Section 1777.5, the Contractor shall secure the necessary certificates and shall contribute to the apprenticeship fund or funds, as provided therein. The Contractor shall require each Subcontractor who will perform work or labor or render service to the Contractor in or about the construction of the work to fully comply with Sections 1777.5 and 1777.6 of the Labor Code. To insure compliance and complete understanding of the law regarding apprentices, and specifically the required ratio thereunder, each Contractor or Subcontractor should, where some questions exist, contact the Division of Apprenticeship Standards, , or one of its branch offices prior to commencement of Work on the public works Contract. Responsibility for compliance with this section lies with the prime Contractor.

It is State and City policy to encourage the employment and training of apprentices on public works Contracts as may be permitted under local apprenticeship standards.

5-1.12 **FAIR LABOR STANDARDS ACT.** Attention is invited to the fact that the City has been advised by the Wage and Hour Division, U.S. Department of Labor, that Contractors engaged in construction Work are required to meet the provisions of the Fair Labor Standards Act of 1958 and as amended (52 Stat. 1060).

5-1.13 **WORKERS' COMPENSATION.** Pursuant to the requirements of Labor Code Section 1860, the Contractor will be required to secure the payment of workers' compensation to its employees in accordance with the provisions of Labor Code Section 3700.

Prior to the commencement of Work, the Contractor shall sign and file with the Director a certification in the following form:

“I am aware of the provisions of Labor Code Section 3700 which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of this Contract.”

5-1.14 **AIR POLLUTION CONTROL AND ASBESTOS.** The Contractor shall comply with all air pollution control rules, regulations, ordinances and statutes which apply to any Work performed pursuant to the Contract, including any air pollution control rules, regulations, ordinances and statutes, specified in Government Code Section 11017.

In the absence of any applicable air pollution control rules, regulations, ordinances or statutes governing solvents, all solvents, including but not limited to the solvent portions of paints, thinners, curing compounds, and liquid asphalt used on the project shall comply with the applicable material requirements of the applicable Air Quality Management District. All containers of solvent, paint, thinner, curing compound, or liquid asphalt shall be labeled to indicate that the contents fully comply with said requirements.

Unless otherwise provided in the Supplemental Conditions, material to be disposed of shall not be burned, either inside or outside the Premises.

The Contractor shall also comply with all rules, regulations, statutes and ordinances

regarding asbestos removal and disposal, including but not limited to, 42 U.S.C. Sections 7401, 7412 and 7601, 40 C.F.R. Part 61, Subpart M, and California Code of Regulations Section 1529, Title 8.

If the Contractor discovers that a building to be demolished or renovated contains asbestos containing material, the Contractor shall immediately cease Work and notify the City.

5-1.15 **USE OF PESTICIDES.** The Contractor shall comply with all local, state and federal rules and regulations of the Department of Food and Agriculture, the Department of Health, the Department of Industrial Relations and all other agencies which govern the use of pesticides required in the performance of the Work.

Pesticides shall include but shall not be limited to herbicides, insecticides, fungicides, rodenticides, germicides, nematocides, bactericides, inhibitors, fumigants, defoliants, desiccants, soil sterilants, and repellents.

Any substance or mixture of substances intended for preventing, repelling, mitigating, or destroying weed, insects, diseases, rodents, or nematodes and any substance or mixture of substances intended for use as a plant regulator, defoliant or desiccant shall be considered as pesticide.

5-1.16 **SOUND AND LIGHT CONTROL REQUIREMENTS.** The Contractor shall comply with all local sound control, light control, and noise level rules, regulations and ordinances which apply to any Work performed pursuant to the Contract. Work shall not begin before 7 a.m. nor occur after 7 p.m., unless otherwise permitted by the City.

Each internal combustion engine, used for any purpose on the Work or related to the Work, shall be equipped with a muffler, in good working order, of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without said

muffler.

5-1.17 **WEIGHT LIMITATIONS.** Unless expressly permitted elsewhere in the Contract Documents, the Contractor shall not operate construction equipment or vehicles of any kind which, laden or unladen, exceed the maximum weight limits set forth in Division 15 of the Vehicle Code over completed or existing base, surfacing, pavement or structures.

5-1.18 **ENVIRONMENTAL CLEARANCES; MITIGATION MONITORING PROGRAMS; AND REGULATORY AGENCY PERMIT REQUIREMENTS.** The Department will obtain all environmental clearances and other authorizations necessary for this project as set forth in the Contract Documents. The Contractor shall comply with the provisions, including giving notices during construction when required, of said authorizations. In the event the obtaining of said authorizations delays completion of all or any portion of the Work, an extension of time determined pursuant to the provisions in Section 6-1.08, "Liquidated Damages," of these General Conditions will be granted.

Contractor shall comply with: (1) all mitigation identified in the mitigation monitoring program (attached to and adopted as a component of the mitigated negative declaration or Environmental Impact Report) to mitigate impacts to protected natural resources; and (2) all related permit requirements issued by the regulatory agencies authorizing the project. Contractor shall defend, indemnify, and save and hold harmless the City, its officers, agents, employees, and volunteers from any fines, claims, suits, actions or regulatory sanctions of every name, kind and description brought forth, or on account of, damage to protected natural resources from or arising out of Contractor's negligence or willful misconduct in the performance of this Agreement.

5-1.19 **PERMITS AND LICENSES.** The Contractor acknowledges and agrees that, prior to the submission of its bid for the Work, it fully familiarized itself with the

requirements of all applicable federal, state, county and municipal laws, codes, rules, and regulations, as well as the conditions of any required licenses and permits.

The Contractor shall procure all permits and licenses, including any applicable building permits (except those procured or to be procured by the City which are listed elsewhere in the Contract Documents), in coordination with the Director, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the Work. Contractor shall be responsible for applying, paying all fees, and coordination for obtaining all permits for completion of the Work. All permits and licenses shall be obtained in sufficient time to prevent delays to the Work. Contractor will apply to the City for reimbursement for such permits costs. Accordingly, Contractor should not include the anticipated costs for permits in its bid, as the necessary permit costs will be reimbursed by the City.

The California Environmental Quality Act (Public Resources Code, Section 21000 to 21177) may be applicable to permits, licenses and other authorizations which the Contractor must obtain from State or local agencies in connection with performing the Work. The Contractor shall comply with the provisions of that Act in obtaining such permits, licenses and other authorizations, and all permits, licenses and other authorizations shall be obtained in sufficient time to prevent delays to the Work.

The Contractor shall maintain the applicable Contractor's license as identified in the Notice to Contractors and City business license for the duration of the Work.

5-1.20 **WATER POLLUTION.** The Contractor shall comply with all water pollution control rules, regulations, ordinances and statutes which apply to any Work performed pursuant to the Contract, including any water pollution control rules, regulations, and statutes, specified by the most current State of California NPDES General Permit for Stormwater

Discharges Associated with Construction Activity.

The Contractor shall take all necessary precaution to protect streams, vernal pools, ponds, reservoirs, and lakes from pollution with fuels, oils, bitumen, calcium chloride, and other harmful materials as consistent with the law. Also, the Contractor shall conduct and schedule operations so as to avoid discharging pollutants, such as but not limited to: sediment and silt to the storm drain system. The storm drain system consists of all facilities that are designed to convey stormwater to the Waters of the State as defined in the California Water Code. The storm drain system includes, but is not limited to, all streets, gutters, drain inlets, roadside ditches, streams, vernal pools, ponds, and lakes. Care shall be exercised to preserve roadside vegetation beyond the limits of construction.

5-1.21 **PROTECTION AND USE OF PROPERTY.** The Contractor shall be responsible for and provide and maintain all proper temporary walkways, covered walkways, barriers, roads, guards, railings, lights, warning signs, and take precaution at all times to avoid injury or damage to any person or any property, and upon completion of the Work, or at other times as directed, restore Premises and adjacent property to a proper condition. In the event of such injury or damage, Contractor shall report such injury and damage to City within forty-eight (48) hours of occurrence.

The Contractor shall protect adjoining property and nearby buildings, including City buildings, City roads, and public streets or roads, from dust, dirt, debris, or the nuisance arising out of the Contractor's operations or storage practices, and, if ordered by the Director, the Contractor shall provide and Install suitable safeguards, approved by the Director, to protect such objects from damage. If such objects are damaged by reason of the Contractor's operations, they shall be replaced or restored at the Contractor's expense.

If the Contractor damages any buildings, roads, utilities, or other property which belong to the City, or any Department or agency thereof, then the Director, at his or her option, may retain from the money due under the Contract an amount sufficient to insure repair of the damage.

The Director may make or cause to be made such temporary repairs as are necessary to restore to service any such damaged facility. The cost of such repairs shall be borne by the Contractor and may be deducted from any moneys due or to become due the Contractor under the Contract.

5-1.22 **RESPONSIBILITY FOR DAMAGE AND INDEMNIFICATION.**

The City of Roseville, its officers, agents, employees, and volunteers, including but not limited to the Director and his or her designee, shall not be answerable or accountable in any manner: for any loss or damage that may happen to the Work or any part thereof; for any loss or damage to any of the materials or other things used or employed in performing the Work; for injury to or death of any person, either workers or the public; or for damage to property from any cause which might have been prevented by the Contractor, its workers, or anyone employed by the Contractor or the Contractor's Subcontractors.

The Contractor shall be responsible for any liability imposed by law and for injuries to, or death of, any person including, but not limited to, workers and the public, or damage to property resulting from defects or obstructions, or from any cause whatsoever during the progress of the Work or at any time before its completion and final Acceptance.

To the fullest extent allowed by law, the Contractor shall defend (through counsel acceptable to the City), indemnify, and save and hold harmless the City, and its respective officers, agents, Subcontractors, employees, and volunteers, and the successors and assigns of

any of them, (hereinafter referred to as “Indemnitees”) from and against all claims, demands, liability, suits, actions, costs or expenses for any and all loss or damage, including but not limited to, personal injury, property damage, or economic loss, arising out of or resulting from allegations of (1) Contractor’s use of the City’s property or any activities or Work performed hereunder by the Contractor; (2) the Contractor’s performance of the Work under the Agreement; or (3) the Contractor’s breach of any provision of the Agreement. The duty of the Contractor to indemnify and save harmless includes the duties to defend as set forth in Civil Code Section 2778. The only exception to these provisions is that the Contractor’s obligations under this section will not apply to the extent that the claims, demands, liability, suits, actions, costs or expenses are caused by Indemnitees’ active negligence, willful misconduct, criminal acts, or for defects in design furnished by the Indemnitees, misconduct, criminal acts, or for defects in design furnished by the Indemnitees.

The Contractor waives any and all rights to any type of express or implied indemnity against the City, its officers, agents, employees, or volunteers.

The Contractor’s responsibility for such defense and indemnity obligations shall survive the termination or completion of this Contract for the full period of time allowed by law. The defense and indemnity obligations of this Contract are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Contract. The parties intend that the defense and indemnity obligations in this Contract shall be broadly construed.

Any person, firm or corporation that Contractor authorizes to Work on the City’s property including Subcontractors, shall be deemed to be an agent of the Contractor for purposes herein, shall be subject to all the applicable terms herein, and shall be within the scope of the Contractor’s indemnity obligation described herein.

In addition to any remedy authorized by law, so much of the money due the Contractor under and by virtue of the Contract as shall be considered necessary by the Department may be retained by the City until disposition has been made of such suits or claims for damages.

The retention of money due the Contractor shall be subject to the following:

A. The City will give the Contractor thirty (30) Days' notice of its intention to retain funds from any partial payment which may become due to the Contractor prior to Acceptance of the Contract. Retention of funds from any payment made after Acceptance of the Contract may be made without such prior notice to the Contractor.

B. No retention of additional amounts out of partial payments will be made if the amount to be retained does not exceed the amount being withheld from partial payments pursuant to Section 7-1.07, "Progress Payments," of these General Conditions.

C. If the City has retained funds and it is subsequently determined that the City is not entitled to be indemnified and saved harmless by the Contractor in connection with matter for which such retention was made, the Department shall be liable for interest on the amount retained at the legal rate of interest for the period of such retention.

5-1.23 **INSURANCE COVERAGE.**

A. **Evidence of Maintenance Required.** The Contractor shall, at its expense, procure and at all times maintain in full force and effect at a minimum the insurance required by this section on all of its operations; and the Contractor shall not allow any Subcontractor to commence work until similar insurance required of the Subcontractor has been obtained and filed. An original Certificate of Insurance, and copies of all required endorsements, all in a form approved by the Risk Manager, evidencing all required coverage or policies shall be filed after the award of the bid and prior to approval of the Contract by the City Council. Contractor shall

provide ten (10) days prior written notice to the City of any reduction of coverage limits or cancellation of the coverage or policies shall be given to the City of Roseville as Certificate holder.

B. Qualifying Insurers. With the exception of the State Compensation Insurance Fund, all required insurance policies shall be issued by companies acceptable to the City and licensed to do business in the State of California and who hold a current policy holders alphabetic and financial size category rating of not less than AVII according to the most recent issue of Best's Insurance Reports.

C. Insurance Required.

1. Commercial General Liability (CGL): Insurance Services Office Form CG 00 01 covering CGL on an “occurrence” basis, including products and completed operations with limits of no less than Two Million Dollars (\$2,000,000) per occurrence for bodily injury, personal injury and property damage for projects under One Million Dollars (\$1,000,000) and limits of no less than Five Million Dollars (\$5,000,000) per occurrence for bodily injury, personal injury and property damage for projects over One Million Dollars (\$1,000,000). If a general aggregate limit applies, either the aggregate limit shall apply separately to this project or the general aggregate limit shall be twice the required occurrence limit.

The Commercial General Liability insurance shall include the following, copies of which shall be provided:

a. Inclusion of the City of Roseville, and its officers, agents, employees, and volunteers, as additional insureds (except for workers’ compensation) as respects services or operations under the Contract. The additional insured endorsement for the general liability policy shall be at least as broad as the ISO CG 2010 10 01 combined with ISO CGL

Endorsement CG 2037 10 01. Any other endorsement must be approved in writing by the City. Endorsements must include coverage for on-going and completed operations, which coverage shall be maintained for four (4) years following completion of the Project. Endorsements shall cover the City of Roseville, its officers, agents, employees, and volunteers.

b. The insurance shall provide coverage for claims by one insured against another insured and the policies shall not contain any cross-suits exclusions, cross-liability exclusions, or insured versus insured exclusions. The policies shall not contain any classification exclusions purporting to deny coverage for any work to be performed by Contractor or any of its Subcontractors.

c. Stipulation that the insurance is primary and noncontributory, as evidenced by a separate endorsement (CG 20 01 04 13 or an equivalent) or section of the policy, and that neither the City nor its insurers will be called upon to contribute to a loss.

d. Such insurance shall specifically cover the contractual liability of the Contractor.

e. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.

f. Waiver of subrogation endorsement.

g. The Contractor shall furnish a certificate for the period covered.

2. Automobile Liability: Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), or if Contractor has no owned autos, Code 8 (hired) and Code 9

(non-owned), with limits of no less than One Million Dollars (\$1,000,000) per accident for bodily injury and property damage.

3. **Workers' Compensation:** In accordance with the provisions of the California Labor Code, Contractor is required to be insured against liability for Workers' Compensation or to undertake self-insurance. Statutory Workers' Compensation and Employers' Liability of at least One Million Dollars (\$1,000,000) shall cover all Contractors staff while performing any work incidental to the performance of this Agreement.

4. **Professional Liability:** Professional Liability (Errors and Omission) Insurance appropriate to Contractor's profession, with a limit of liability not less than One Million Dollars (\$1,000,000) per occurrence or claim and Two Million Dollars (\$2,000,000) aggregate to cover all design and engineering services rendered by Contractor pursuant to the Agreement. Coverage must commence from the first day that Contractor or any of its Subcontractors provided any design or engineering services in connection with the Project.

5. **Builder's Risk/Course of Construction Insurance (If Required by Risk Management):** The Contractor shall be responsible for all loss, damage or destruction whatsoever to the work called for by this Contract until the approval of a Notice of Completion or acceptance of the Work if no Notice of Completion is to be recorded.

The Contractor shall secure "All Risk" type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the work performed under this Contract (the value is presumed to be the Contract amount unless otherwise stated in Supplemental Conditions) and all materials, equipment, or other items to be incorporated therein while the same are located at the construction site, a bonded warehouse, or its place of manufacture. At any time, the policy shall cover the value of the work completed. The policy shall cover hazards

including the losses due to fire, explosion, hail, rain, lightning, flood (separate insurance as needed), vandalism, malicious mischief, wind, collapse, aircraft, and smoke.

The policies providing such insurance shall name the City as a loss payee as its respective interests may appear, and certified copies of such policies shall be filed with the City. The maximum deductible allowable under the Builder's All Risk policy shall be five percent (5%) of the Contract amount.

Builder's Risk Insurance is not required for coverage of losses in excess of five percent (5%) of the Contract amount for damages resulting from earthquake in excess of a magnitude of 3.5 on the Richter scale, or tidal waves. Coverage in the amount of five percent (5%) of the Contract amount for such losses is required.

6. Pollution Coverage: Contractor shall procure pollution liability coverage or other insurance covering claims for bodily injury or property damage arising out of the abatement, removal, storage, transportation, or other exposure to hazardous materials or pollutants, in limits not less than Two Million Dollars (\$2,000,000). Contractor shall add the City and all parties required to be indemnified by Contractor as additional insured on all pollution liability policies.

7. Higher Coverage Limits: If Contractor maintains higher coverage limits than the amounts shown above, then the City requires and shall be entitled to coverage for the higher coverage limits maintained by Contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City.

8. Claims Made Coverage: Liability insurance coverage may not be written on a "claims made" or modified occurrence basis. The Certificate of Insurance must clearly provide that the coverage is on an "occurrence" basis.

5-1.24 **OTHER INSURANCE PROVISIONS.**

A. The requirements of the Standard Specifications as to types and limits of insurance coverage to be maintained by the Contractor, and any approval of insurance by the City, are not intended to, and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by the Contractor pursuant to the Contract, including, but not limited to, the provisions concerning indemnification, nor preclude the City from taking any other action available to it under any other provision of the Contract or law.

B. The City acknowledges that some insurance requirements contained in these Standard Specifications may be fulfilled by self-insurance on the part of the Contractor. However, this shall not in any way limit liabilities assumed by Contractor under the Contract. Any self-insurance must be approved in writing by the City, in its sole discretion and shall not reduce the limits of liability. Any deductibles or self-insured retentions (“SIR”) must be declared on the certificate of insurance and approved by City in writing. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.

C. The Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Contract, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor’s work. Furthermore, the Contractor shall require its subcontractors to agree to be bound to the Contractor and the City in the same manner and to the same extent as the Contractor is bound to the City under this Contract. Additionally, the Contractor shall obligate its subcontractors to comply with these

same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of the City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request. Alternatively, the Contractor may insure subcontractor(s) under its own policy.

D. The City, its officers, agents, employees, and volunteers are to be covered as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the Contractor; and with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts or equipment furnished in connection with such work or operations. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Insurance Code Section 11580.04.

E. The limits of insurance required in this Contract may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of the City (if agreed to in a written contract) before the City's own insurance shall be called upon to protect it as a named insured.

F. The insurance procured by Contractor shall be subject to the approval of the City, but any acceptance of insurance certificates by the City shall in no way limit or relieve Contractor of its duties and responsibilities under the Agreement.

G. Contractor shall be responsible for all premiums, deductibles, and self-insured retention applicable to the insurance it is required to procure under the Contract. All deductibles or self-insured retentions over five hundred thousand dollars (\$500,000) must be approved by the City, in writing. Contractor shall be responsible for all deductibles, self-insured

retention payments, and/or increased premiums incurred if the City's policies of insurance are forced to cover damages or respond to claims for which Contractor or its Subcontractors were obligated to provide insurance under the Contract.

H. Failure of the City to enforce in a timely manner any of the requirements of these insurance provisions shall not act as a waiver to enforcement of any of these provisions at a later date.

I. Contractor's indemnity obligations shall not be limited by these insurance provisions and shall survive the expiration of the Contract and the insurance provisions of the Contract shall likewise not be limited by the indemnity provisions of the Contract.

J. THE CITY RESERVES THE RIGHT TO WITHHOLD ANY PROGRESS PAYMENTS TO THE CONTRACTOR IN THE EVENT OF NONCOMPLIANCE WITH ANY INSURANCE REQUIREMENTS.

5-1.25 **THIRD PARTY BENEFICIARY.** No provisions in the Contract Documents shall in any way inure to the benefit any third party (including the public at large or any member thereof) so as to constitute such person a third party beneficiary of the Contract, or of any term or condition or other provision of the Contract or otherwise give rise to any cause of action in any person not a party to the Agreement, except as expressly provided elsewhere in the Contract Documents.

5-1.26 **COORDINATION AND ACCESS.** The Contractor acknowledges that the City may award, or has already awarded, other construction contracts for additional work or may perform additional work with its own forces and that such work may affect the Work under this Agreement. Additionally, the Contractor acknowledges that the State and other public and private agencies may be granted a right-of-entry by the City for the purpose of constructing

facilities within and adjacent to the Work Site. It is the obligation of the Contractor to coordinate its Work with the work of others working within or adjacent to the City's property.

During performance of its Work, the Contractor shall not have exclusive access to or use of the work areas. The City may also require that certain facilities and areas be used concurrently by the Contractor and by other contractors working in the area. When two (2) or more contractors are employed on related or adjacent City work, each shall conduct its operations in such a manner as not to cause any unnecessary delay or hindrance to the other. Each contractor shall be responsible to the other for all damage to any work, to persons or property caused to the other by its operations, and for loss caused the other due to any unnecessary delays or failure to finish the work within the time specified for completion.

If any party of the Contractor's Work depends on the work of any other contractor and/or the City for proper execution and/or results, the Contractor shall promptly notify the City of any discrepancies and/or defects in said other work that would render its work unsuitable for proper execution and/or results prior to proceeding with the Contractor's own Work. If it becomes necessary, the City will resolve coordination and access problems.

The Contractor and its representative in charge of the Work shall familiarize themselves with the City's property and Work Site, and adjacent surroundings in the vicinity of said Work, and any private or public operations on adjoining properties.

5-1.27 **OCCUPANCY BY THE DEPARTMENT PRIOR TO**

ACCEPTANCE. The City may at any time notify the Contractor in writing that it intends to take Beneficial Occupancy of any portion of the Work even though the Work may not be substantially complete. Unless the reason for the City's taking Beneficial Occupancy is that the Contractor has not completed the Work (or portions thereof) in accordance with the Contract

Time, the City's Beneficial Occupancy shall relieve the Contractor from its responsibility for maintenance, loss or damage to that portion of the Work for which the City has taken Beneficial Occupancy other than that resulting from the Contractor's act or omission, negligence, willful misconduct or breach of warranty.

Should the Work (or portion thereof) not be completed in accordance with the Construction Schedule within the Contract Time (as adjusted under the terms of the Contract Documents), the City shall have the right, but not the obligation, to take Beneficial Occupancy of the Work. In such event, the Contractor shall not be entitled to any additional compensation on account of said occupancy by the City, nor shall the Contractor be relieved of any of its responsibilities under the Contract Documents, including, without limitation, Contractor's obligation to complete the Work in accordance with the Construction Schedule.

Beneficial Occupancy shall not be deemed an Acceptance by the City either of the Work or of any portion thereof, nor will it relieve the Contractor of full responsibility for correcting defective Work or materials found at any time before the formal written Acceptance of the entire Contract by the Director or during the full warranty period after such Acceptance, as provided in Section 7-1.12, "Warranty," of these General Conditions.

The City's Beneficial Occupancy shall not relieve the Contractor of its responsibility to maintain all insurance and bonds required under the Contract Documents until the entire project is accepted by the City.

5-1.28 **RIGHT TO OPERATE UNSATISFACTORY FACILITIES AND EQUIPMENT.** If, after Installation, the operation or use of the facilities or equipment to be furnished under this Contract proves to be unsatisfactory to the Director, the City shall have the right to operate and use such facilities or equipment until they can, without damage to the City,

be taken out of service for correction or replacement. Such period of use of the defective facilities or equipment, pending correction or replacement, shall in no way decrease the warranty period required for the acceptable corrected or replaced facilities or equipment.

5-1.29 **CONTRACTOR'S RESPONSIBILITY FOR THE WORK.** Except as otherwise provided herein, the Contractor shall have the charge and care of the Work and shall bear the risk of injury or damage to any part of the Work by the action of the elements or from any other cause whether arising from the execution or from the nonexecution of the Work until the Acceptance of the Contract by the Director. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the Work occasioned by any cause before its completion and Acceptance, and shall bear the expense thereof. In case of suspension of Work from any cause whatever, the Contractor shall be responsible for the Work and it shall also be responsible for all materials, and shall properly store them if necessary, and shall provide suitable drainage and erect temporary structures where necessary.

The Contractor will be relieved of responsibility for any injury or damage to the Work caused by the following:

- A. An earthquake in excess of a magnitude of 3.5 on the Richter Scale or a tidal wave, when the effect of such has been proclaimed a disaster or state of emergency by the Governor of the State of California or by the President of the United States, or was of such magnitude at the site of the Work as to have been sufficient to have caused a proclamation of disaster or state of emergency, had it occurred in a populated area.
- B. Occupancy and use by the Department or the public prior to the completion of the entire project.
- C. Acts of the Federal Government or the public enemy.

5-1.30 **RESPONSIBILITY FOR UTILITIES.** The Contractor shall be responsible at its own cost for any and all Work, expense or special precautions caused or required by the existence or proximity of utilities encountered in performing the Work, including without limitation, repair of any or all damage and all hand or exploratory excavation required. The Contractor is cautioned that such utilities may include communication cables or electrical cables which may be high voltage, and when working or excavating in the vicinity of such cables, or the ducts enclosing such cables, the Contractor shall undertake at its own cost any special precautions required. Suitable warning signs, barricades, and safety devices shall be erected as necessary or required.

However, if during the course of the Work the Contractor encounters utility Installations which are not shown or indicated in the Contract Documents or which are found in a location substantially different from that shown, and such utilities are not reasonably apparent from visual examination, then the Contractor shall promptly notify the Director in writing. Where necessary for the Work of the Contract, the Director shall issue a written order to the Contractor to make such adjustments, rearrangement, repair, removal, alteration, or special handling of such utility, including repair of the damaged utility. The Contractor shall perform the Work described in such written order, and compensation therefor will be made in accordance with Section 3 of these General Conditions relating to changes in the Work. Except for the items of cost specified in said Section 3, the Contractor shall receive no compensation for any other cost, damage, delay, interference, or hindrance to him or her due to the presence of such utility. If the Contractor fails to give the notice specified above and thereafter acts without instructions for the Director, then the Contractor shall be liable for any or subsequent to discovery thereof, and the Contractor shall repair and make good such damage at its own cost.

The precise location of underground facilities can only be determined by careful probing or hand digging in compliance with Article 6 of the Cal/OSHA Construction Safety Orders which states in part:

“Prior to opening an excavation, effort shall be made to determine whether underground installations, i.e., sewer, water, fuel, electric lines, etc., will be encountered, and if so, where such underground installations are located. When the excavation approaches the approximate location of such an installation, the exact location shall be determined by careful probing or hand digging, and, when it is uncovered, adequate protection shall be provided for the existing installation.”

The location of known existing utilities and pipelines are shown on the Contract Drawings in their approximate locations. Some of the locations include multiple conduits. The Contractor shall exercise care in avoiding damage to those facilities which are to remain in service subsequent to the construction of the particular new facility involved and the Contractor will be held responsible for any repairs if damaged. The Contractor shall also exercise care in maintaining those pipes and facilities required for continuing operation of the existing facilities until such time as they can be abandoned. There is no guarantee that all utilities or obstructions are shown on the Contract Drawings or that the locations indicated are accurate.

The Contractor shall exercise extreme caution in working in the area adjacent to the existing pipelines and utility services. It is essential that all the existing facilities be maintained in service. Construction of the connections between the existing facilities and the new facilities shall be at times and during periods acceptable to the City. The Contractor shall advise the Director in writing of its proposed Construction Schedule for these connections at least forty-eight (48) hours in advance.

The Contractor shall uncover all piping and conduits, to a point one foot (1') below the pipe, where crossings, interferences, or connections are shown on the Contract Drawings, prior to trenching or excavating for any pipe or structures, to determine actual elevations. New pipelines shall be laid to such grade as to clear all existing facilities which are to remain in service. If the Contractor does not expose all required utilities, it shall not be entitled to additional compensation for Work necessary to avoid interferences nor for repair to damaged utilities. Excavations around underground electrical ducts and conduits shall be performed using extreme caution to prevent injury or damage to workers and to the electrical ducts or conduits.

5-1.31 **PROPERTY RIGHTS IN MATERIALS.** Nothing in the Contract shall be construed as vesting in the Contractor any right of property in the materials used after they have been attached or affixed to the Work or soil or after partial payment has been made as provided in Section 7-1.07, "Progress Payments," of these General Conditions for material delivered on the ground or stored subject to or under the control of the City and unused. All such material shall become the property of the City upon being so attached or affixed or upon payment for materials delivered on the ground or stored subject to or under the control of the City and unused, as provided in said Section 7-1.07.

5-1.32 **COURT ORDERED DELAY.** If, pursuant to court order, the Department temporarily suspends performance of all or any portion of the Work, an extension of time determined pursuant to the provisions in Section 6-1.08, "Liquidated Damages," of these General Conditions will be granted.

5-1.33 **NO PERSONAL LIABILITY.** Neither the Director, nor any other officer or authorized employee of the City, shall be personally responsible for any liability arising under or by virtue of the Contract.

5-1.34 **RIGHTS IN LAND AND IMPROVEMENTS.** The Contractor shall make no arrangements with any person or entity to permit occupancy or use of any land, structure or building within the limits of the Work, for any purpose whatsoever, either with or without compensation, in conflict with any agreement between the City and any third party owner, former owner, or tenant of such land, structure or buildings. The Contractor shall not occupy City-owned property outside the limit of the Work shown on the Contract Drawings unless it obtains prior approval.

5-1.35 **ANTITRUST CLAIMS.** The Contractor's attention is directed to the following provision of Public Contract Code Section 7103.5(b), which is applicable to the Contractor and its Subcontractors:

“ In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the contractor or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the contractor, without further acknowledgement by the parties.”

5-1.36 **RIGHTS TO DRAWINGS, TECHNICAL DATA PATENTS.** Shop

Drawings and Working Drawings submitted to the City by the Contractor, Subcontractor or any lower tier Subcontractor pursuant to the Agreement, are the property of the City and the City may use, and disclose in any manner and for any purpose, Shop Drawings and Working Drawings delivered under the Contract.

Technical Data including manuals or instructional materials, computer or microprocessor software which are delivered or submitted to the City by the Contractor, Subcontractor, or any lower tier Subcontract pursuant to the Contract are the property of the City, and the City may use or disclose same in any manner and for any purpose.

The Contractor shall assume all costs arising from the use of patented materials, equipment, devices, or processes used on or incorporated in the Work, and shall defend, indemnify and save and hold harmless the City, and its duly authorized representatives, from all suits at law, or in equity, and actions of every nature for, or on account of the use of any patented materials, equipment, devices or processes. In case some materials, equipment, devices or processes are held to constitute an infringement and their use enjoined, the Contractor, at its expense, shall:

1. Secure for the City the right to continue using said materials, equipment, devices or processes by suspension of the injunction or by procuring a license or licenses; or
2. Replace such materials, equipment, devices, processes; or
3. Modify them so that they become non-infringing or remove the enjoined materials, equipment, devices or processes and refund the sums paid therefor without prejudice to any other rights of the City.

5-1.37 **PAYMENT OF TAXES.** Contractor shall pay all taxes and duties applicable to and assessable against any Work, equipment, materials, services, processes, and

operations incidental to or involved in the Agreement, including but not limited to, retail sales and use, transportation, export, import, business, and special taxes. The Contractor is responsible for ascertaining and acquainting itself with such taxes and making all necessary arrangements to pay them. The Contractor will maintain records that are auditable records, and these records shall be subject to the City's review to verify that Contractor's tax payments are current at all times.

The Contract Price paid for the Work shall include full compensation for all taxes which the Contractor is required to pay, whether imposed by Federal, State or local government, including, without being limited to, Federal excise tax. No tax exemption certificate nor any document designed to exempt the Contractor from payment of any tax will be furnished to the Contractor by the Department, as to any tax on labor, services, materials, transportation, or any other items furnished pursuant to the Contract.

The Contractor shall withhold and pay any and all sales and use taxes, withholding taxes, whether Federal, State, or local, Social Security taxes, State Unemployment Insurance charges and all other taxes which are now or hereafter may be required to be paid or withheld under any laws.

5-1.38 **GRATUITIES AND CONFLICT OF INTEREST.** The Contractor shall not offer or provide gratuities in the form of gifts, entertainment, loans, meals, rewards, and/or services to representatives of the City, including but not limited to, officers, employees, agents, Engineering Service Consultants, Consulting Engineers and Architects, Inspectors and/or Testing Agencies retained by the City. If it is found that the Contractor has violated this provision, the Contract may be subject to termination for default as defined elsewhere in these General Conditions.

During the term of the Contract and until the final payment has been made to the Contractor, the Contractor shall not employ or compensate in any manner whatsoever, the City's officers, employees and authorized representatives, agents, and any Engineering Service Consultants, Consulting Engineers and Architects, Inspectors, and/or Testing Agencies retained by the City. Any exception to the employment or compensation to any of the above named parties must be made in writing by the City. If the Contractor offers or provides employment or compensation to those named above during the term of the Contract, the Contract may be subject to termination for default.

5-1.39 **COOPERATION.** Should construction be under way by City forces or other forces or by other Contractors within or adjacent to the limits of the Work or should Work of any other nature be under way by such forces within or adjacent to said limits, the Contractor shall cooperate with all such forces to the end that any delay, interference or hindrance to their Work will be avoided. The right is reserved to perform other or additional Work at or near the site at any time, by the use of such forces.

5-1.40 **DIGGING TRENCHES OR OTHER EXCAVATIONS.** In the event any work involves digging trenches or other excavations that extend deeper than four feet (4') below the surface, City and Contractor shall comply with the following:

A. The Contractor shall promptly, and before the following conditions are disturbed, notify City in writing of any:

1. Material that the Contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.

2. Subsurface or latent physical conditions at the site differing from those made available to Contractor for inspection as provided in the project proposal.

3. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract.

B. The City shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the Work shall issue a Change Order under the procedures described in the Contract.

C. In the event that a dispute arises between the City and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the Work, the Contractor shall not be excused from any scheduled completion date provided for by the Contract, but shall proceed with all work to be performed under the Contract. The Contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between the contracting parties. However, no claim of the Contractor under this clause shall be allowed unless the Contractor has given the notice required by this Section. No claim by the Contractor for an equitable adjustment hereunder shall be allowed if asserted after final payment under this Contract.

5-1.41 **CONTRACTOR REGISTRATION.** No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this Contract, the Contractor and its subcontractors shall have a continuing legal obligation to maintain current

registration with the Department of Industrial Relations. The Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

5-1.42 **CITY OF ROSEVILLE ENCROACHMENT PERMITS AND RIGHTS-OF-WAY.** The Contractor need not obtain a separate encroachment permit from the City prior to construction within street rights-of-way or other City rights-of-way. Execution of the Contract by the City shall be deemed an encroachment permit for work required by the Contract within rights-of-way. All work shall conform to the rules and regulations of encroachment permits and shall be subject to the inspection and approval of the Director and City Engineer.

To the extent indicated in the Contract Drawings, the City will provide the rights-of-way over private lands or the site to enable the Contractor to perform its work. The Contractor shall be solely responsible for securing any additional rights-of-way desired by the Contractor. The City will not be a party to nor assume any liability for any separate agreements reached between the Contractor and any third parties with respect to these additional rights-of-way. The Contractor shall procure evidence that agreements are in place with said third parties before the Contractor uses those areas covered by the agreements. Any damage to such private lands caused by the Contractor's operations shall be the sole responsibility of the Contractor.

SECTION 6

PROSECUTION AND PROGRESS

6-1.01 **SUBLETTING AND SUBCONTRACTING.** The Contractor shall be responsible for all Work performed under the Contract. The Contractor shall give its personal attention to the fulfillment of the Contract and shall keep the Work under its control. Nothing in the Contract Documents shall create any contractual relationship between the City and any Subcontractor. The Contractor is fully responsible to the City for the acts and omissions of its Subcontractors of any tier. When any Subcontractor fails to prosecute a portion of the Work in a manner satisfactory to the Director, that Subcontractor shall not again be employed on the Work. Although the sections of the Contract may be arranged according to various trades, or general grouping of the Work, the Contractor is not obligated to sublet the Work in such manner. The Director will not arbitrate disputes among Subcontractors or between Contractor and one or more Subcontractors concerning responsibility for performing any part of the Work.

The on-site production of materials produced by other than the Contractor's own forces shall be considered as subcontracted. The erection, establishment or reopening of on-site plants for production of materials and the operation thereof in the production of materials for use on the Work shall conform to the requirements relating to labor set forth in the Contract Documents.

The Contractor shall also be responsible for coordinating the Work performed by Subcontractors and Suppliers.

The Contractor shall not substitute any person as Subcontractor in place of a Subcontractor listed on its bid proposal without the written approval of the Director. Substitutions must be in accordance with the provisions of the "Subletting and Subcontracting

Fair Practices Act” beginning with Public Contract Code Section 4100. Violations of this Act by the Contractor may subject it to penalties which may include cancellation of Contract, Assessment of ten percent (10%) of the Subcontractor's bid, and disciplinary action by the Contractors State License Board.

The Contractor shall pay any Subcontractors approved by the City for work that has been satisfactorily performed no later than seven (7) Days from the date of Contractor’s receipt of progress payments by the City. Within seven (7) Days after receipt from the City of funds attributable to work performed by a Subcontractor, Contractor shall release any retainage payments withheld to the Subcontractor. In the event Contractor does not make progress payments or release retention to Subcontractors in accordance with the time period specified herein, Contractor may be subject to prompt payment penalties per statute.

6-1.02 **ASSIGNMENT.** The performance of this Contract may not be assigned, except upon the written consent of the City Council of the City of Roseville. Consent will not be given to any proposed assignment which would relieve the original Contractor or its surety of their responsibilities under the Contract nor will the City consent to any assignment of a part of the Work under the Contract.

The Contractor may assign moneys due or to become due to it under the Contract and such assignment will be recognized by the City, if given proper notice thereof, to the extent permitted by law, but any assignment of moneys shall be subject to all proper set-offs in favor of the City and to all deductions provided for in the Contract and particularly all money withheld, whether assigned or not, shall be subject to being used by the City for the completion of the Work in the event that the Contractor should be in default therein.

6-1.03 **BEGINNING OF WORK.** After the execution of the Contract by both

parties, the City will issue the Notice to Proceed upon its determination that it is appropriate for the Contract Time to commence.

The Contractor shall begin Work within fifteen (15) Days after receiving the Notice to Proceed from the Director, subject to the requirements stated elsewhere in the Contract Documents regarding, among other things, the submittal of Baseline Schedule, and shall diligently prosecute the same to completion within the time limit provided in the Supplemental Conditions. Contractor shall also achieve any and all Contract milestones as described elsewhere in the Contract Documents.

The Contractor shall notify the Director, in writing, of its intent to begin Work at least seventy-two (72) hours before Work is begun. The notice shall be delivered to the Director and shall specify the date the Contractor intends to start. If the project has more than one (1) location of Work, a separate notice shall be given for each location.

The Contractor is not authorized to perform any Work until it has received a Notice to Proceed from the City. Should the Contractor begin Work in advance of receiving notice that the Contract has been approved as above provided, any Work performed by it in advance of the said date of approval shall be considered as having been done by the Contractor at its own risk and as a volunteer unless said Contract is so approved thereafter.

6-1.04 **PROGRESS SCHEDULE.**

A. Preliminary Progress Schedule. The Contractor shall submit to the Director, within twenty (20) Days after date of the Notice to Proceed, a Preliminary Progress Schedule covering the Contractor's activities over the first three (3) months of operation in detail and the remainder of the project in summary. The Preliminary Progress Schedule shall schedule the project within the Contract Time for completion of the Work, and shall be subject to

favorable review by the Director.

B. CPM Schedule. The Contractor shall submit an acceptable Critical Path Method (CPM) Schedule to the Director within thirty (30) Days after the receipt of the Notice to Proceed. Subsequent revisions to said schedule shall be submitted as set forth hereinafter. The requirement for the CPM schedule is included to allow for adequate planning and execution of the Work, to determine the critical nature of delays, and to assist the Director in appraising the reasonableness of the proposed schedule and evaluating progress of the Work. The CPM schedule submitted under this Section shall utilize a CPM format, either the precedence or arrow diagramming method. The definitions of CPM terms and functions shall be as provided in the Associated General Contractors of America book *CPM in Construction, A Manual for General Contractors*, or a favorably reviewed alternative publication or reference. No progress payment will be made prior to submission and acceptance of the CPM Schedule.

1. The CPM schedule system shall consist of diagrams and accompanying mathematical analyses. The diagrams shall show elements of the project in detail and an entire project summary. Diagrams shall show the order and interdependence of activities and sequence in which the Work is to be accomplished as planned by the Contractor. The basic concept of a network analysis diagram shall be followed to show how the start of a given activity is dependent on the completion of preceding activities and its completion restricts the start of following activities. Detailed network activities shall include, in addition to construction activities, the submittal and favorable review of samples of material and Shop Drawings, the procurement of critical materials and equipment, fabrication of special material and equipment, and their Installation and testing. All activities of the City and the Director that affect progress and required Contract dates for completion of all or parts of the Work shall be shown. The

selection and number of activities shall be subject to favorable review by the Director. Summary networks shall be time scaled. Durations shall be in Days and shall not exceed fifteen (15) Days, except for submittal and delivery items. Where the duration of continuous Work exceeds fifteen (15) Days, Work items in the Construction Schedule shall be subdivided by location, approximate stationing or other sub-element of the Work.

The graphic network diagram shall include for each activity, the description, activity number, the estimated duration in Days, and all activity relationship lines. The network diagram shall be drawn for the early start of activities. All significant Submittals shall be scheduled along with manual Submittals and training on all large or critical pieces of equipment. If the precedence technique is utilized, the schedule project shall include a calendar in Work Days, a network report sorted by early start and a logic table report sorted by preceding Work item. If the arrow technique is utilized, the schedule report shall include a calendar in Work Days, a network report sorted by early start, a network report sorted by I-J numbers, and a network sorted by slack time and I-J numbers.

2. The critical path shall be shown on all reports and on the graphic network diagram. The activities which constitute the critical path shall be identified.

3. The mathematical analysis of the network diagram shall include a tabulation of each activity. The following information shall be furnished as a minimum for each activity:

- (a) preceding and following event numbers
- (b) activity description and number
- (c) estimated duration of activities
- (d) earliest start date (by calendar date)

- (e) earliest finish date (by calendar date)
- (f) actual start date (by calendar date)
- (g) actual finish date (by calendar date)
- (h) latest start date (by calendar date)
- (i) latest finish date (by calendar date)
- (j) slack or float
- (k) percentage of activity completed

4. The program shall be capable of accepting revised completion dates as modified by approved time adjustments and recomputations of all tabulation dates and float accordingly.

5. Submission and review of the system shall be as follows:

(a) The complete network analysis system, consisting of the detailed network mathematical analysis and network diagrams, shall be submitted within thirty (30) Days after receipt of the Notice to Proceed.

(b) The Contractor shall participate in a review and evaluation of the proposed network diagrams and analysis by the Director. Any revisions necessary as a result of this review shall be resubmitted for review by the Director within ten (10) Days. When completed, the favorably reviewed schedule shall then be the schedule to be used by the Contractor for planning, organizing and directing the Work and for reporting progress. If the Contractor thereafter desires to make significant changes in its method of operating and scheduling, the Contractor shall notify the Director in writing stating the reasons for the change.

(c) The Contractor shall submit at monthly intervals a report of the actual construction progress. Each monthly report shall cover a period of approximately thirty

(30) Days ending around the 20th of each month. The monthly reports shall be submitted within ten (10) Days of the end of the reporting period.

(1) If the project is proceeding on schedule, the monthly update report may consist of a marked-up copy of the graphical network diagram. This submittal shall clearly indicate the status of any minor shifts in sequence or schedule and the estimated completion date or percent complete of all activities currently in progress. The Contract completion date shall also be indicated. The Contractor shall submit a narrative report relating to status of construction, the schedule, and factors which may affect the remainder of the schedule. The report shall show the activities or portions of activities completed during the reporting period. The report shall state the percentage of the Work actually completed and scheduled as of the report date and the progress along the critical path in terms of Days ahead or behind the allowable dates.

(2) If, in the opinion of the Director, the project is behind schedule, the monthly report shall include a revised network diagram and/or mathematical analysis showing the Contractor's proposed revised schedule. An analysis of the effect that the delay has on progress along other paths shall also be included in the report. The Contractor shall also submit a narrative report with each updated analysis which shall include but not to be limited to a description of current and anticipated problem areas, delaying factors and their impact, and an explanation of corrective actions taken or proposed.

(3) Periodic report shall be submitted in sufficient copies to cover Contractor needs plus five (5) copies and an available electronic copy to be retained by the Director.

6. To the extent that the favorably reviewed initial Construction Schedule, or revisions thereto, indicate anything not jointly agreed upon, it shall be deemed to be not favorably reviewed by the Director. Any omission of Work from the detailed schedule, otherwise required for Contract compliance, will not excuse the Contractor from completing such Work within any applicable completion date. The CPM schedule shall be generated by computer methods.

C. Schedule Review. Once each month, on a date mutually agreed upon, but no later than seven (7) business days after the monthly schedule progress report date, a Work Site meeting will be held to review the Construction Schedule and job progress. The Contractor shall also attend weekly meetings scheduled by the Director to review the progress of the Work in the preceding week and in the subsequent week, coordinate the Work with public agencies or other Contractors as required, and allow the Director to plan his or her activities for testing, inspection, etc.

D. Schedule Revisions. The conditions under which the Director will require revisions of the Construction Schedule include the following:

1. When delay in completion of any Work item or sequence of Work items results in an estimated extension of project completion by either twenty (20) business days or by ten percent (10%) of the remaining duration of time to complete the Contract, whichever is less.

2. When delays in Submittals or deliveries make replanning or rescheduling of the Work necessary.

3. When the schedule does not represent actual prosecution and progress of the Work.

4. When any change to the sequence of activities, the completion date for major portions of the Work, or when changes occur which affect the critical path.

5. When Contract Amendments or a Change Order necessitates schedule revision, the Contractor shall submit a schedule analysis of all Change Order Work with its proposal.

E. Cash Flow Projection. A cash flow projection shall be submitted with the Construction Schedule. This cash flow projection shall be revised and resubmitted when revisions of the Construction Schedule will result in changes to the projected cash flow.

F. Schedules showing project completion dates earlier than specified in the Supplemental Conditions will be rejected unless justification can be provided for early completion.

6-1.05 **SCHEDULE OF VALUES.** Prior to preparation of the first estimate for a progress payment, the Contractor shall submit for favorable review by the Director a detailed Schedule of Values or cost breakdown of the Work under each bid item awarded. The breakdown will then become the basis for partial payment determination. Elements of Work shall be grouped by structure, pipeline, system, etc. Within each grouping, Work should be itemized by readily measurable quantities of Work complete in place. For example, concrete should be in units of cubic yards including form Work and reinforcing steel. Move-on costs, bond and insurance costs, and Overhead costs shall not be considered an item of cost for this purpose but shall be prorated over items of Work. In the event the Schedule of Values is not favorable reviewed by the Director, another Schedule of Values shall be submitted that is mutually acceptable to the Contractor and the Director.

6-1.06 **CITY'S RIGHT TO STOP WORK.** The Director shall have the

authority to order the Contractor, in writing, to suspend the Work wholly or in part, for such period as the Director may deem necessary due to the failure on the part of the Contractor to correct Work that is not in accordance with the requirements of the Contract Documents or if Contractor persistently fails to carry out Work in accordance with the Contract Documents.

The Contractor shall immediately comply with the written order of the Director to suspend the Work wholly or in part. The suspended Work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Director.

Any stoppage of work under this section shall be at the Contractor's sole expense, and the Contractor shall have no claim against the City based on the Contractor's failure to perform the Work in accordance with the Contract Documents.

In addition to the City's right to stop Work, the City may order the Contractor to submit to the City at no additional cost to the City, additional information concerning Contractor's planned Work if the Contractor fails to promptly correct Work that is not in accordance with the requirements of the Contract Documents or persistently fails to carry out Work in accordance with the Contract Documents. The additional information ordered by the City may include, but is not limited to, preparation of Submittals or Working Drawings not otherwise required to be submitted under the Contract Documents.

In the event the City discovers that the Contractor has created an unsafe condition the City may arrange for other work forces to remedy the condition. Such remedial work shall be at the sole discretion of the City. If this action is required, the City may unilaterally terminate Work under the Contract, and will pay only for the quantities of Work actually performed, less the cost of the City's remedial Work. In the event that Work is not halted, the Contractor must take immediate steps to correct the situation. There will be no extra payment for Work required

to correct unsafe conditions.

The right of the City to suspend the Work shall not give rise to a duty on the part of the City to exercise this right for the benefit of the Contractor or any other person or entity. This right shall be in addition to and not in restriction or derogation of the City's other rights under the Contract Documents.

In the event of a suspension of Work under any of the conditions set forth in this Section 6-1.06, such suspension of Work shall not relieve the Contractor of its legal responsibilities as set forth in these General Conditions.

6-1.07 **TIME OF COMPLETION.** The Contractor shall complete the entire Work, including Installation, repairs, startup, troubleshooting, painting, and touchup, training, submittal or record drawings, and manuals, cleanup, demobilization, and all other Work within the number of Days set forth in the Supplemental Conditions. The time for completion includes an allowance for working time lost due to normal inclement weather.

Extensions of time may be allowed for unusual inclement weather under the provisions hereinafter described. Unusual inclement weather is weather which adversely affects "controlling" operations or the critical path of construction and which meets one of the following criteria:

A. For the particular calendar month in question, the number of individual Days with rainfall exceeding 0.10 inches exceeds the average number of such Days for that month over the immediately preceding five (5) years of record by at least three (3) Days.

B. For the particular calendar month in question, the total cumulative rainfall for that month exceeds the average cumulative rainfall for that month over the immediately preceding five (5) years of record by at least two inches (2").

Rainfall shall be measured at a publicly operated, maintained, and reported station in reasonable proximity to the construction site. A claim for delay shall indicate the period of rainfall which is claimed as “unusual,” the specific dates during which the unusual rainfall and subsequent wet soil conditions prevented Work, and the specific critical path tasks adversely affected by such unusual weather. A claim for delay due to unusual inclement weather shall be filed within ten (10) Days of the apparent end of the unusual inclement rainfall period, whether or not the monthly totals are available at that time. The burden of proof that weather meets the criteria for unusual weather shall be solely the responsibility of the Contractor.

It is the responsibility of the Contractor to order materials required for the Work properly and promptly on a Notice to Proceed. If evidence presented demonstrates that, in spite of the Contractor's efforts, government-established priorities controls delay material deliveries, suitable extension of time will be made.

If performance of extra Work ordered by the City or failure of the City to provide the necessary site for Installation affects construction tasks which are “controlling” or which are on the “critical path” of the Construction Schedule, suitable extensions of time will be made.

The Contractor shall not be entitled to a time extension for delays in activities on non-critical paths of the favorably reviewed schedule unless the duration of the excusable delay exceeds the total float of the activities being delayed. If the duration of an excusable delay does exceed the total float of the activities affected by the delay, the Contractor shall be entitled to an extension equal to the difference.

C. Determination that a day is a non-working day by reason of inclement weather or conditions resulting immediately therefrom, shall be made by the Director.

6-1.08 **LIQUIDATED DAMAGES.** It is agreed by the parties to the Contract

that in case all the Work called for under the Contract in all parts and requirements is not completed within the number of Days as set forth in the Supplemental Conditions, damage will be sustained by the City and that it is and will be impracticable and extremely difficult to ascertain and determine the actual damage which the City will sustain in the event of and by reason of such delay; and it is therefore agreed that the Contractor will pay to the City, the monetary amount indicated in the Supplemental Conditions in dollars (U.S.) per day for each and every calendar day of delay in completing the Work in excess of the number of Days prescribed and the number of additional calendar days, if any, authorized by Contract Change Order; and the Contractor agrees to pay said Liquidated Damages herein provided for, and further agrees that the City may deduct the amount thereof from any moneys due or that may become due the Contractor under the Contract.

It is further agreed that in case the Work is not finished and completed in all parts and requirements within the number of Days specified, the City shall have the right to increase the number of Days or not, as it may deem best to serve the interest of the City, and if it decides to increase the said number of Days, it shall further have the right to charge to the Contractor, its heirs, assigns or sureties and to deduct from the final payment for the Work all of any part, as it may deem proper, of the actual cost of engineering, inspection, superintendence, and other Overhead expenses which are directly chargeable to the Contract, and which accrue during the period of such extension, except that cost of preparation of final statement shall not be included in such charges.

6-1.09 **DELAYS AND EXTENSIONS TO THE WORK.** The Contractor must complete all Work within the time specified in the Agreement. The Contractor will be granted an extension of time and will not be assessed with liquidated damages or the cost of engineering

and inspection for any delay in substantially completing the Work (or parts thereof) beyond the time set forth in the Agreement, provided that such delay was caused by unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include acts of public enemy, fire, floods, abnormal weather (as described below), earthquakes, epidemics, quarantine restrictions, strikes, labor disputes and freight embargoes, fire, changes made pursuant to the provisions of “Changes in the Work” under Section 3 of these General Conditions or acts or neglect of the City not contemplated by the Contract Documents. In all cases, any extension of time is conditioned on the following:

1. That the cause is not due to the fault or negligence of the Contractor, and the Contractor has taken reasonable precautions to prevent and minimize the effects thereof; and
2. That the Contractor notifies the Director in writing within three (3) Days from the beginning of such delay specifying the nature of the delay and the measures that have been or will be taken to prevent or minimize the delay. Failure to submit written notice within this time period shall constitute an absolute waiver of any claim for a time extension.

No extension of time will be granted for a delay caused by a shortage of materials, unless the Contractor furnishes to the City documentary proof that it has diligently made every effort to obtain such materials from all known sources within reasonable reach of the work and further proof, as acceptable to the Director, that the inability to obtain such materials when originally planned did in fact cause a delay in Final Completion of the entire Work which could not be compensated for by revising the sequence of the Contractor’s operations. Only the physical shortage of material will be considered as a cause for extension of time, and no consideration

will be given to any claim that material could not be obtained at a reasonable, practical or economical cost or price, unless it is shown to the satisfaction of the City that such material could have been obtained only at exorbitant prices entirely out of line with current rates, taking into account the quantities involved and the usual practices in obtaining such quantities.

No extension of time will be granted for a delay caused by Contractor's staff turnovers, understaffing or insufficient quantity of qualified staff able to perform the necessary work.

The term "shortage of materials," as used in this section, shall apply only to materials, articles, parts or equipment which are standard items and shall not apply to materials, parts, articles or equipment which are processed, made, constructed, fabricated or manufactured to meet the specific requirements of the Contract Documents.

No extensions of time will be granted for delays that have no measureable impact on the completion of the Work (or parts thereof) under the Contract Documents. When extensions of time are granted, they will be limited to the period equivalent to the actual number of Days lost on the critical path or controlling operations of the Construction Schedule, taking into account the extent to which that delay could be decreased by reasonable mitigation measures by the Contractor. All requests for extensions of time must be supported with a critical path analysis showing the critical path and impacts to it. Contractor's failure to submit this analysis will be sufficient cause for denial of any request for a time extension.

Within a reasonable period of time after the Contractor submits the notice and information required by this section, the City will determine whether an extension of time is justified and, if so, the number of days for the extension.

Abnormal weather may be a valid basis for a time extension under the Agreement. "Abnormal Weather" occurs when the number of days of rain above 0.5 inches in a 24 hour

period exceeds the average for such rainfall in a particular month as determined by the National Weather Service. The Contractor will only be entitled to, at most, a time extension for the number of days of rain exceeding the average for that month in the locale where the Work is to be performed. If delays are caused by the Contractor or those for whom the Contractor is responsible, the Contractor will only be entitled to, at most, a time extension for the number of rain days exceeding the average for the month when the Work should have been performed.

In addition, before a time extension may be granted for abnormal weather, the Contractor must establish that the rain either significantly impacted at least sixty percent (60%) of the planned work of the controlling operations for a particular day or prohibited at least five (5) hours of work on the controlling operations planned for that day. Contractor shall employ reasonably methods to mitigate the impact of abnormal weather (i.e., dewatering, protection of site, etc.) The occurrence of rain during non-work hours or having minimal impact to work on the controlling operation shall not constitute a day of abnormal weather.

In the event that the project experiences favorable weather for a particular month (e.g., the number of actual rain days in a month less than that indicated above for allowable rain days per months), the additional float resulting from such favorable weather shall accrue to the project.

Any Contractor claim for damages or additional compensation based on delay shall be limited to only those circumstances where the Contractor has fulfilled each of the following three (3) requirements:

1. Contractor has established its entitlement to a time extension pursuant to the provisions described above regarding delay and extensions to the Work.
2. The delay was caused solely by the City's issuance of changes made pursuant to the

provisions of “Changes in the Work” under Section 3 of these General Conditions or by acts or neglect of the City.

3. The delay was unreasonable under the circumstances and not within the contemplation of the parties.

It is expressly understood and agreed that delays caused by the City will be non-compensable when there are concurrent delays caused by the Contractor. Also, the Contractor shall have no entitlement to additional compensation for any delay where there have been concurrent delays caused by non-compensable delays, including, but not limited to, fire, floods, earthquakes, epidemics, quarantine restrictions, strikes, labor disputes, and freight embargoes.

Contractor’s damages and/or additional compensation for delays will consist solely of the extended costs of maintaining the Contractor’s Work Site presence. The Contractor will not be entitled to any extended home office overhead.

Compensation for idle time of equipment will be determined in the same manner as determinations are made for equipment used in the performance of extra work paid for on a Force Account basis with the following exceptions:

1. The time for which compensation will be paid will be the actual normal working hours during which such delay conditions exists, but in no case will exceed eight (8) hours in any one day.
2. The days for which compensation will be paid will be each calendar day of the work week (defined elsewhere in the Contract Documents) and Legal Holidays, during the existence of such delay, except that when rental of the equipment is paid for under the provisions in Section 3-1.06C, “Force Account Payment – Equipment,” of these General Conditions, no payment will be made for delays in accordance with the

provisions of this section.

Actual loss shall be understood to include no items of expense other than idle time of personnel, cost of extra moving of equipment, and cost of longer hauls. Compensation for idle time of equipment will be determined as provided in this section and compensation for idle time of personnel will be determined pursuant to Section 3-1.06A, "Force Account Payment – Labor," of these General Conditions. No markup will be added in either case for Overhead and profit. The cost of extra moving of equipment and the cost of longer hauls will be paid for as extra work as provided pursuant to "Changes to the Work" elsewhere in the Contract Documents.

6-1.10 **TERMINATION.**

6-1.10A **TERMINATION OF AGREEMENT – CONVENIENCE OF CITY.** The Department reserves the right to terminate the Contract at any time and for any reason if the Director determines that to do so would be in the best interest of the City. Any termination which is not based on the circumstances set forth in Section 6.1-10B below shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance of Work under the Contract is terminated, and the date upon which such termination becomes effective.

Upon the Contractor's receipt of a written Notice of Termination for convenience, the Contractor shall cease Work as to those portions of the project so terminated and shall undertake the steps outlined in Section 6-1.10B below.

1. Acceptance of the Contract as hereinafter specified shall not relieve the Contractor of responsibility for damage to materials except as follows:
 - a. The Contractor's responsibility for damage to materials for which partial payment has been made as provided in Section 7-1.07, "Progress

Payments,” of these General Conditions and for materials furnished by the City for use in the Work and unused shall terminate when the Director certifies that such materials have been stored in the manner and at the locations he or she has directed.

- b. The Contractor's responsibility for damage to materials purchased by the City subsequent to the issuance of the notice that the Contract is to be terminated shall terminate when title and delivery of such materials has been taken by the City.
- c. When the Director determines that the Contractor has completed the Work under the Contract directed to be completed prior to termination and such other Work as may have been ordered to secure the project for termination, the Contractor will recommend that the City formally accept the Work, and immediately upon and after such Acceptance by the City, the Contractor will not be required to perform any further Work thereon and shall be relieved of its contractual responsibilities for injury to persons or damage to property which occurs after the formal Acceptance of the project by the City.

2. The total compensation to be paid to the Contractor shall be determined by the Director on the basis of the following:

- a. The reasonable cost to the Contractor, without profit, for all Work performed under the Contract, including mobilization, demobilization and Work done to secure the project for termination. Reasonable cost will include a reasonable allowance for project Overhead and general

administrative Overhead not to exceed a total of seven percent (7%) of Direct Costs of such Work.

- b. A reasonable allowance for profit on the cost of the Work performed as determined under subsection (a), provided the Contractor establishes to the satisfaction of the Director that it is reasonably probable that it would have made a profit had the Contract be completed and provided further, that the profit allowed shall in no event exceed four percent (4%) of said cost.
- c. The reasonable cost to the Contractor of handling material returned to the vendor, delivered to the Department or otherwise disposed of as directed by the Director.
- d. A reasonable allowance for the Contractor's administrative costs in determining the amount payable due to termination of the Contract.

All records of the Contractor and the Contractor's Subcontractors, necessary to determine compensation in accordance with this Section, shall be open to inspection or audit by representatives of the Department at all times after issuance of the notice that the Contract is to be terminated and for a period of three (3) years, and such records shall be retained for that period.

After Acceptance of the Work by the Director, the Director may make payments on the basis of interim estimates pending issuance of the Final Statement, when in his or her opinion the amount thus paid, together with all amounts previously paid or allowed, will not result in total compensation in excess of that to which the Contractor will be entitled. All payments, including payment upon the Final Statement, shall be subject to deduction for prior payments and amounts, if any, to be kept or retained under the provisions of the Contract.

In the event that the City terminates this Contract under Section 6-1.10B below and it is determined for any reason that there was not sufficient cause to do so, the City's termination automatically will convert to a termination for convenience under this section and the terms and conditions outlined in this section automatically will be applied to effectuate the Contract termination. Thus, damages to which a Contractor may be entitled as a result of an improper default termination will be limited to the amounts provided for in this section.

The provisions of this section shall be included in all subcontracts.

6-1.10B **TERMINATION OF AGREEMENT - FOR CAUSE.** An

"Event of Default" as referred to in this section shall occur if the Contractor:

1. Fails to maintain progress of the Work in accordance with the requirements of the Contract Documents; or
2. Fails to prosecute the Work or any of its components in accordance with the Contract Documents; or
3. Persistently or repeatedly fails or refuses to supply sufficient properly skilled workers or proper material to permit the performance of the Work in accordance with the Contract Documents; or
4. Fails to make prompt payment to Subcontractors or Suppliers in accordance with the respective agreements between the Contractor and the Subcontractor and Contractor and Supplier; or
5. Fails to comply with applicable laws, ordinances or rules, regulations or orders of a public authority having jurisdiction over the Work; or
6. Abandons, assigns or sublets the Contract without approval of the City; or
7. Becomes bankrupt or is subject to appointment of a receiver on behalf of the

Contractor; or

8. Otherwise is guilty of a substantial breach of a provision of the Contract Documents.

Upon the City's reasonable belief that there has been an Event of Default by the Contractor, the City may elect to give the Contractor written notice thereof. The Contractor thereafter shall cure the default as soon as possible and in no event after ten (10) Days from the Contractor's receipt of the City's written notice.

If the Contractor does not timely cure its default, the City may, without waiver of any of its other rights and remedies, elect to terminate the Contract, or portion thereof.

Upon the City's election to terminate the Contract, or portion thereof, the City shall have the right to complete the Work, or portion involved, by whatever means and methods it deems expedient, including the hiring of others on such terms as the City deems advisable. The City shall have the right to take possession of the Contractor's materials, plant, tools, equipment and property of any kind provided by or on behalf of the Contractor for the purpose of the Work, or a portion of them, without being responsible to the Contractor for wear and tear. The Contractor shall have no rights in such property during its use by the City. The City shall not be required to obtain the lowest prices for completing the Work or a portion of it but shall make such expenditures as, in the City's sole judgment, best accomplish such completion.

The expense of completing such Work or portion thereof, together with a reasonable charge for engineering, managerial and administrative services, as certified by the City, shall be charged to the Contractor, and the expense so charged shall be deducted by the City out of such monies as may be due or may at any time thereafter become due to the Contractor. In case such expense is more than the sum which otherwise would have been payable to the Contractor under the Agreement, then the Contractor or its surety or sureties shall promptly pay the amount of

such excess so due. When the City terminates the Contract under this section, the Contractor shall not be entitled to receive any further payments until the Work is completed and there has been a final settlement of costs of completing the Work covered by such notice of default.

The City will issue to the Contractor a written notice specifying that the Contract, or portion thereof, is terminated. Upon receipt of said written notice and, except as otherwise directed in writing by the City, the Contractor shall:

1. Stop all Work under the Contract; or if partial termination, stop Work relating to the terminated portion of the Agreement;
2. Perform Work the City deems necessary to secure the Work Site for termination including measures to leave the Work Site in a safe condition;
3. Remove equipment from the site of Work, as specified by the City;
4. Take such action as is reasonably necessary to protect materials from damage;
5. Notify all Subcontractors and Suppliers that the Contract or portion thereof is being terminated and that their contracts or orders are not to be further performed unless otherwise authorized in writing by the City;
6. Provide the City with an inventory list of all materials previously produced, purchased or ordered from Suppliers for use in the Work and not yet used in the Work, including its storage location, and such other information as the City may request;
7. Dispose of materials not used in the Work as directed by the Director. It shall be the Contractor's responsibility to provide the City (a) with good title to all materials purchased by the City hereunder, including materials for which partial payment has been made by the City and (b) with bills of sale or other documents of title for such

materials;

8. Subject to the prior written approval of the City, settle all outstanding liabilities and all claims arising out of Subcontractors or orders for materials terminated hereunder. To the extent directed by the City, the Contractor shall assign to the City all rights, title and interests of the Contractor under subcontracts or orders for materials terminated hereunder. The City shall be at liberty to negotiate with and engage any Subcontractors who had contracted with the Contractor for the Work;
9. Furnish the City with the documentation required to be furnished by the Contractor under the provisions of the Contract Documents, including, on projects as to which Federal funds are involved, all documentation required under the Federal requirements included in the Agreement; and
10. Take such other actions as the City may direct.

If only a portion of the Work has been terminated, the Contractor shall perform the remainder of the Work in conformity with the Contract Documents and in such a manner as not to interfere with the City or others in their performance and completion of the portion of the Work which was terminated.

The City may recover from the Contractor the amount of any loss or damage, including consequential damages, suffered or incurred as a result of the Contractor's default.

SECTION 7

ACCEPTANCE AND PAYMENT

7-1.01 **ACCEPTANCE.** When the Contractor believes that the entire Work is fully and finally completed, including the satisfactory completion of inspections, tests, and documentation specified in the Contract Documents and completion of all punch list and clean-up items, the Contractor shall submit to the City a written request for final Acceptance within fifteen (15) Days thereafter, specifying that the Work is fully and finally completed and the date on which it was completed. Within thirty (30) Days after receipt of the request for final Acceptance, the City will inspect the Work and will either:

1. Reject the request for final Acceptance, specifying the defective and/or uncompleted portions of the Work; or
2. Notify the Contractor that the Work will be accepted by Resolution of the City Council of the City of Roseville, and a Notice of Completion will be caused to be recorded by the City Clerk; or
3. Notify the Contractor that the Work has been accepted by the City but no Notice of Completion will be recorded.

If the City rejects the request for final Acceptance, the Contractor shall promptly remedy the defective and/or uncompleted portions of the Work. Thereafter, the Contractor shall again submit a written request for final Acceptance of the Work, specifying a new date based on the date the defective and/or uncompleted portions of the Work were corrected. Thereafter, the foregoing procedure shall apply successively until the City has verified that the Work is fully and finally completed and accepted the Work by Resolution of the City Council or by written

notification from the Director. Immediately upon such Acceptance, the Contractor shall be relieved of the duty of maintaining the Work as a whole.

All warranties commence upon final Acceptance of the Work. The City's final Acceptance of the Work shall not be construed as an acceptance by the City of any latent defects discovered with regard to the Contractor's work. Furthermore, Contractor's obligations under Section 5-1.22 "Responsibility for Damage and Indemnification" shall still remain applicable after the City's grant of final Acceptance of the Work.

Prior to final Acceptance, the Contractor shall submit to the City the Record Documents and Operation and Maintenance Manuals as specified in the Contract Documents.

7-1.02 **SCOPE OF PAYMENT.** The Contractor shall accept the compensation provided in the Contract as full payment for furnishing all labor, materials, tools, equipment, and incidentals necessary to the completed Work and for performing all Work contemplated and embraced under the Contract; also for loss or damage arising from the nature of the Work, or from the action of the elements, or from any unforeseen difficulties which may be encountered during the prosecution of the Work until the Acceptance by the Director and for all risks of every description connected with the prosecution of the Work, also for all expenses incurred in consequence of the suspension or discontinuance of the Work as provided in the Contract; and for completing the Work according to the Contract. Neither the payment of any estimate nor of any retained percentage shall relieve the Contractor of any obligation to make good any defective Work or material.

No compensation will be made in any case for loss of anticipated profits.

7-1.03 **NOTICE OF POTENTIAL CLAIM.** The Contractor shall not be entitled to the payment of any additional compensation for any act or failure to act by the City,

including failure or refusal to issue a Change Order, or for the happening of any event, thing, occurrence or other cause unless the Contractor has given the City due written Notice of Potential Claim as hereinafter specified, provided, however, that compliance with this Section 7-1.03 shall not be a prerequisite as to matters within the scope of the notice provisions in Section 6-1.07, "Time of Completion," or the notice provisions in Section 6-1.08, "Liquidated Damages," of these General Conditions, nor to any claim which is based on differences in measurement or errors of computation as to correct quantities.

The written Notice of Potential Claim shall set forth the reasons for which the Contractor believes additional compensation will or may be due, the nature of the costs involved, and, insofar as possible, the amount of the potential claim. The said Notice as above required must have been given to the Director prior to the time that the Contractor shall have performed the Work giving rise to the potential claim for additional compensation, if based on an act or failure to act by the Director, or in all other cases within seven (7) Days after the happening of the event, thing, occurrence or other cause giving rise to the potential claim.

If the Notice of Potential Claim does not include complete information about the claim or the parties do not execute a Contract Change Order in connection with the Notice of Potential Claim, Contractor shall submit complete information about its claim for additional compensation and/or extension of time for performance within fifteen (15) Days after such work is performed. Failure to provide written notice of claim prior to undertaking such work or failure to timely submit a complete and specific information about the claim for additional compensation and/or extension of the time for performance shall be deemed a waiver and abandonment of such claim.

If there is a dispute over any claim, the Contractor shall continue to Work during the dispute resolution process in a diligent and timely manner as directed by the City, and shall be

governed by all applicable provision of the Agreement.

The Contractor shall maintain cost records of all Work that is the basis of any dispute. On a daily basis, Contractor shall submit to City completed daily forms, the format of which will be acceptable to the City, with respect to the Contractor's costs of performing the disputed work. These daily forms shall itemize all of Contractor's costs in performing the disputed work, including, but not limited to, all costs relating to materials, labor and equipment with respect to the disputed work. These daily forms shall provide names or identification and classification of affected workers, the hourly rate of pay and hours worked, and also the size, type, and identification number of equipment and hours operated. Said daily work forms shall be duly signed and verified by the Contractor or its authorized representative. The City's receipt of the Contractors' daily forms shall not constitute an approval of the Contractor's claim. Contractor's failure to submit the daily forms on a daily basis shall constitute a waiver of the Contractor's right to claim any additional compensation for the disputed work.

Each Contractor claim shall include full and complete information concerning the Claim. Contractor shall provide a clear, concise recital of the basis, upon which the claim is asserted, including a designation of the provisions of the Contract Documents upon which the claim is based. Contractor shall also include a statement as to the amount of time and/or compensation sought pursuant to the claim; if Contractor's claim arises from an ongoing occurrence, Contractor shall so state in its claim, including a description of the specific Work activities affected by the claim. All costs, expenses or damages and extensions of time claimed shall be described in reasonable detail under the circumstances together with complete supporting documentation.

The City will review any timely Notice of Potential Claim and supporting information

submitted by Contractor. In conducting this review, the City shall have the right to require the Contractor to submit such additional or supporting documents, data and other information as the City may require.

If an agreement can be reached which resolves the Contractor's claim, the parties will execute a Contract Change Order to document the resolution of the claim. If the parties cannot reach agreement with respect to the Contractor's claim, the Contractor shall still be obligated to comply with the claim identification provisions identified in these General Conditions, including but not limited to Section 7-1.04.

It is the intention of this Section 7-1.03 that differences between the parties arising under and by virtue of the Contract be brought to the attention of the Director at the earliest possible time in order that such matters may be settled, if possible, or other appropriate action promptly taken. The Contractor hereby agrees that it shall have no right to additional compensation for any Claim that may be based on any such act, failure to act, event, thing or occurrence for which no timely written Notice of Potential Claim as herein required was filed.

7-1.04 **CLAIMS.** Contractor must submit all Claims, for which it has previously submitted a Notice of Potential Claim, prior to Acceptance of the Work. Each such Claim must be sent to the City by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the Claim.

Upon receipt of a Claim, the City shall conduct a reasonable review of the Claim and, within a period not to exceed forty-five (45) Days, or such further time as mutually agreed upon or necessary pursuant to Public Contract Code Section 9204, the City shall provide the Contractor a written statement identifying what portion of the Claim is disputed and what portion is undisputed. If the City does not respond to a Claim from the Contractor within the time

specified herein, such Claim shall be deemed rejected in its entirety.

Any payment due on an undisputed portion of the Claim shall be processed and made within sixty (60) Days after the City issues its written statement.

If the Contractor disputes the City's written response, or if the City does not respond within the time specified herein, the Contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the City shall schedule a meet and confer conference within thirty (30) Days for settlement of the dispute.

Within ten (10) business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the City shall provide the Contractor a written statement identifying the portion of the Claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the Claim shall be processed and made within sixty (60) Days after the City issues its written statement. Any disputed portion of the Claim, as identified by the Contractor in writing, shall be submitted to nonbinding mediation, with the City and the Contractor sharing the associated costs equally. The City and the Contractor shall mutually agree to a mediator within ten (10) business days after the disputed portion of the Claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the Claim remaining in dispute shall be resolved in accordance with Section 7-1.05 below.

7-1.05 **DISPUTE RESOLUTION PROCEDURE.** All Claims not resolved

pursuant to Section 7-1.04, shall be resolved pursuant to Public Contract Code Section 10240, et seq.

7-1.06 **STOP PAYMENT NOTICES.** The City, by and through the Department or other appropriate office or officers, may at its option and at any time retain out of any amounts due the Contractor, sums sufficient to cover claims, filed pursuant to Civil Code Section 9350, et seq., including an amount to provide for the reasonable cost of any litigation thereunder.

7-1.07 **PROGRESS PAYMENTS.** Within fifteen (15) Days after the effective date in the Notice to Proceed, but in any event prior to Contractor's first Application for Payment, the Contractor shall submit to the City a detailed Schedule of Values.

Upon its approval, the Schedule of Values will form a basis for determining the compensation payable to the Contractor based on its actual progress of Work with respect to each Lump Sum bid item. The City, prior to any progress payment being made, must approve the Schedule of Values.

At the Director's discretion the approved Schedule of Values may be used as the basis for calculating the adjustment in compensation for a lump sum bid item due to changes ordered by the Director. When an ordered change increases or decreases the quantities shown in an approved Schedule of Values, at the Director's discretion, the adjustment in compensation may be determined in the same manner specified for increases and decreases in the quantity of a bid item of work in accordance with Section 3-1.05(B), "Contract Price Adjustment," of these General Conditions.

The Contractor once in each month shall submit an Application for Payment, for approval by the Director. Contractor's Applications shall be based on the Schedule of Values submitted to the City. These applications shall be supported by: (1) documentation requested by the City to

substantiate the payment request; (2) statutory releases from Contractor and all Subcontractors and suppliers pursuant to Civil Code Sections 8132 and 8138; and (3) certified payroll records for the period for which payment is requested. Specifically, the Contractor will submit conditional waivers upon progress payment executed by all contractors and suppliers that will be receiving sums sought in the instant payment request and also submit unconditional waivers upon progress payment executed by all contractors and suppliers that have been paid to the date of the payment request. The Contractor shall certify that the Work for which payment is requested has been accomplished. When requested by the City, the Contractor shall submit receipts, invoices and other documentation that the City requires to be furnished for purpose of evaluating the application.

The City will pay the Contractor within thirty (30) Days after its receipt of an undisputed and properly submitted Application for Payment, after deducting all previous payments, retention, and other sums as described in the Contract Documents. Within seven (7) Days of its receipt of the Contractor's Application for Payment, the City will determine whether it complies with the provisions of the Contract Documents. As appropriate, the City will return the application to the Contractor accompanied by a document prepared by the City setting forth the reasons for the rejection. Thereafter, the Contractor shall correct and resubmit the Application for Payment. Progress payments may be withheld for Work that is not performed in accordance with the Contract Documents.

The City may deduct the following from each progress payment:

1. An amount equal to one hundred and twenty-five percent (125%) of the amount claimed under any stop payment notice or other lien filed against the Contractor, which includes an amount to provide for the reasonable cost of any litigation

thereunder.

2. Any Liquidated Damages or Assessments that have accrued as of the date of the Application for Payment.
3. Any sums expended by the City in performing any of the Contractor's obligations under the Agreement that the Contractor has failed to perform.
4. Any other sums that the City is entitled to recover from the Contractor under the terms of the Contract including damages to the City's property.
5. The failure of the City to deduct any of the above identified sums from a progress payment shall not constitute a waiver of the City's right to such sums.

No such estimate or payment shall be construed to be an acceptance of any defective Work or improper materials.

Under no circumstances will the City make payment to unlicensed Contractors. As a condition of payment, the Contractor is required to maintain the applicable Contractor's license as identified in the Notice to Contractors for the duration of the Work.

7-1.08 **PAYMENT FOR MATERIALS AND EQUIPMENT ON HAND.**

Partial payments may be made to the extent of seventy-five percent (75%) of the cost of materials and equipment plus delivery to be incorporated in the Work, provided that such materials and equipment meet the requirements of the Contract Documents and are delivered to acceptable sites on the plant site or at other sites in the vicinity that are acceptable to the City and only with the prior written approval by the City. Such delivered costs of stored or stockpiled materials and equipment may be included in the next progress payment after the following conditions are met:

- A. Equipment and materials will only be eligible if given conditional or final

Acceptance by the Director and are in apparent compliance with favorably reviewed Submittals.

B. Only equipment or materials which have received favorable review of Shop Drawings will qualify.

C. The material or equipment has been stored or stockpiled adequately protected against damage in a manner acceptable to the Director at an approved site.

D. The Contractor has furnished the Director with acceptable evidence of the quantity and the quality of such stored or stockpiled materials or equipment with identification of where they will be incorporated into the project with Specification reference.

E. The Contractor has furnished the Director with satisfactory evidence that the material or equipment and transportation costs have been paid.

F. The Contractor has furnished the City legal title (free of liens or encumbrances of any kind) and lien releases to the material or equipment so stored or stockpiled.

G. The Contractor has furnished the City evidence that the material or equipment so stored or stockpiled is insured against loss by damage to or disappearance of such materials at any time prior to use in the Work.

It is understood and agreed that the transfer of title and the City payment for such stored or stockpiled materials or equipment shall in no way relieve the Contractor of its responsibility for furnishing and placing such materials or equipment in accordance with the requirements of the Contract Documents.

In no case will the amount of progress payments for materials or equipment on hand exceed the Contract Price for such materials or equipment or the Contract Price for the Contract item in which the material is intended to be used.

No partial payment will be made for stored or stockpiled living or perishable plant

materials.

The Contractor shall bear all costs associated with the progress payment of stored or stockpiled materials or equipment in accordance with the provisions of this Section.

7-1.09 **RETENTION ON PROGRESS PAYMENTS.** From each progress payment estimate, five percent (5%) will be deducted and held in retention by the City. The remainder, less any deductions described in Section 7-1.07, "Progress Payments," of these General Conditions, will be paid to the Contractor as progress payments.

Pursuant to Public Contract Code Section 22300, the successful Bidder may submit Securities in lieu of retention payments by the City. Upon the Contractor's request, the City will make payment of funds withheld from progress payments, pursuant to the requirements of California Public Contract Code Section 22300, if the Contractor deposits in escrow with the City or with a bank acceptable to the City, securities eligible for investment under California Government Code Section 16430, bank or savings and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by the Contractor and the City, upon the following conditions:

1. The Contractor shall bear the expenses of the City and the escrow agent in connection with the escrow deposit made.
2. Securities or certificates of deposit to be placed in escrow shall be of a value at least equivalent to the amounts of retention to be paid to the Contractor pursuant to this section.
3. Contractor shall enter into an escrow agreement satisfactory to the City, which agreement shall be substantially similar to the form provided in California Public Contract Code section 22300.

4. The Contractor shall obtain the written consent of the surety to such agreement.

7-1.10 **FINAL PAYMENT.** Final payment will be made only after Contractor has achieved Final Completion of the Work pursuant to the provisions of Section 7-1.01, “Acceptance,” of these General Conditions. Before final payment can be made, the Contractor shall have furnished the City with the following:

1. All Record Documents, catalogues, instruction sheets and information as required by the Contract Documents.
2. Conditional Waivers and Releases Upon Final Payment executed by Contractor and all Subcontractors and Suppliers, as provided by Civil Code Section 8136. Unconditional Waivers and Releases Upon Final Payment, as provided in Civil Code Section 8138, executed by Contractor and all Subcontractors and Suppliers, must be provided for all Subcontractors and Suppliers that have been paid in full.

Within thirty (30) Days of the date of the City’s Acceptance of the Work, the Contractor shall prepare and submit a Final Invoice, showing the proposed total amount due the Contractor, segregated by Bid item quantities, Change Order Work, and other basis for payments; deductions made or to be made for prior payment; and amounts previously retained. Prior invoices and payments shall be subject to correction in the proposed Invoice for Final Payment. Payments to the Contractor will be made only for actual quantities of the Contract items of work constructed in accordance with the Contract Documents.

The City will review the Contractor’s proposed Final Invoice and necessary changes or corrections will be forwarded to the Contractor. Within ten (10) Days thereafter, the Contractor

shall submit a revised proposed Final Invoice incorporating changes or corrections made by the City together with any new claims resulting therefrom. Upon approval by the City, the corrected proposed Final Invoice will become the approval Final Invoice.

If agreements are reached on all questions regarding the Final Invoice, the City will pay the entire sum found due on the approved application. However, the City will withhold sums sufficient to pay all unsettled claims for which stop payment notices have been filed pursuant to Section 9350, et seq. of the California Civil Code, together with the reasonable cost of any litigation thereunder.

Final payment will be made within thirty (30) Days after receipt of an approved Final Invoice and other required Submittals referenced above or within sixty (60) Days after Acceptance of the work by the City, whichever is later, provided, however, that if an approved Final Invoice has not been submitted within sixty (60) Days after Acceptance of the Work by the City, the City may elect to make payment of sums not in dispute without prejudice to the right of either the City or the Contractor in connection with such disputed sums. Notwithstanding the foregoing, if a Notice of Completion is recorded, final payment shall not be made prior to the expiration of the thirty-five (35) calendar day lien period. The start of this lien period is the date the Placer County Recorder's Office records the Notice of Completion.

The City may withhold from the Final Payment an amount not to exceed one hundred fifty percent (150%) of any amount in dispute between the City and the Contractor.

The making of Final Payment shall not operate to release the Contractor or its sureties from obligations arising under the Contract, the Contract bonds and warranties as herein provided. Specifically, the making of final payment shall not constitute a waiver and release of claims by the City arising from:

1. Unsettled or future liens;
2. Failure of the Work to comply with the requirements of the Contract Documents;
3. The terms of any warranties required by or contained in the Contract Documents;
4. The right to any insurance proceeds or the right to make any insurance or bond claims;
5. Any claims with respect to Contractor's obligations of indemnity with respect to claims asserted by third parties; or
6. Any latent deficiencies with the Work or Contractor's fraud.

7-1.11 **CLERICAL ERRORS.** Notwithstanding the provisions of Section 7-1.10, "Final Payment," of these General Conditions, for a period of three (3) years after Acceptance of the Work, all estimates and payments made pursuant to said Section 7-1.10, are subject to correction for clerical errors in the calculations involved in the determination of quantities and payments. The Contractor and the City agree to pay to the other any sum due under the provisions of this Section 7-1.11, provided, however, if the total sum to be paid is less than \$100, no such payment shall be made.

7-1.12 **WARRANTY.** Notwithstanding inspections and Acceptance by the City of Work furnished under the Contract Documents, the Contractor hereby unconditionally guarantees that all materials and equipment furnished will be of good quality and new, that the Work will be free from defects in workmanship and materials and that the Work will conform to the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective.

This warranty by the Contractor is in addition to any warranties or guarantees required elsewhere in the Contract Documents. This warranty shall be in effect notwithstanding any disclaimers, or limiting or conditional terms contained in such separate warranties furnished by manufacturers or suppliers.

The Contractor hereby agrees to repair or replace any and all Work, together with any other adjacent Work which may be displaced in so doing, that may prove to be not in accordance with the requirements of the Contract or that may be defective in its workmanship or material during the greater of a period of one (1) year after Acceptance of the Work by the City or the period specified in the Special Conditions, without any expense whatsoever to the City, ordinary wear and tear and unusual abuse or neglect excepted.

The Contractor further agrees, that within ten (10) Days after being notified in writing by the Department of any Work not in accordance with the requirements of the Contract Documents or of any defects in the Work, the Contractor will commence and prosecute with due diligence all Work necessary to fulfill the terms of this warranty, and to complete such Work within a reasonable period of time. In the event Contractor fails to comply, it does hereby authorize the Department to proceed to have such Work done at the Contractor's expense and the Contractor will honor and pay the cost and charges therefore upon demand. The Department shall be entitled to all costs and expenses, including reasonable attorneys' fees, necessarily incurred upon the Contractor's refusal to honor and pay the above costs and charges.

All warranties set forth in the Contract Documents shall be deemed cumulative and not alternative or exclusive. Nothing contained in this section shall be construed to establish a period of limitation with respect to any other obligation, which Contractor has under the Contract Documents or under any separate warranty or guaranty required thereby. The establishment of a

specific warranty period relates only to the specific obligation of Contractor to correct defective Work, and it has no relationship to the time within which its obligation to comply with the Contract Documents or applicable provision of law may be sought to be enforced, nor to the time within which proceedings may be commenced to establish Contractor's liability with respect to its obligations other than specifically to correct the Work. Without limiting the foregoing, it is understood and agreed that Contractor shall remain responsible for latent defects with its work, regardless of the expiration of any warranty period set forth in the Contract Documents.

7-1.13 **WARRANTY OF TITLE.** No material, supplies, or equipment for the Work under this Contract shall be purchased subject to any chattel mortgage, security agreement, or under a conditional sale or other agreement by which an interest therein or any part thereof is retained by the seller or supplier. The Contractor warrants good title to all material, supplies, and equipment Installed or incorporated in the Work and agrees upon completion of all Work to deliver the Premises, together with all improvements and appurtenances constructed or placed thereon by it, to the City free from any claim, liens, security interest, or charges, and further agrees that neither the Contractor nor any person, firm, or corporation furnishing any materials or labor for any Work covered by this Contract shall have any right to a lien upon the Premises or any improvement or appurtenances thereon. Provided, that this shall not preclude the Contractor from Installing metering devices and other equipment of utility companies, the title of which is commonly retained by the utility company. In the event of the Installation of any such metering device or equipment, the Contractor shall advise the City as to the legal owner thereof. Nothing contained in this paragraph, however, shall defeat or impair the right of such persons furnishing materials or labor under any bond given by the Contractor for their protection or any rights under any law permitting such persons to look to funds due the Contractor in the hands of the City.

The provisions of this paragraph shall be inserted in all subcontracts and material Contracts, and notice of its provisions shall be given to all persons furnishing materials for the Work when no formal Contract is entered into for such materials.

[END OF GENERAL CONDITIONS]

SUPPLEMENTAL CONDITIONS

Industrial Substation 12kV Switchgear Replacement and Fiddymont Substation Transformer
Addition Project

Scope of Supplemental Conditions

1. The Work shall be performed in accordance with the General Conditions and Department Standards, except as the General Conditions may be modified by the following additional City Standards, incorporated herein by this reference, if so indicated.

	COMMUNITY DESIGN GUIDELINES 311 Vernon Street, Roseville, CA 95678
X	SPECIFICATIONS FOR COMMERCIAL CONSTRUCTION (ELECTRIC) 2090 Hilltop Circle, Roseville, CA 95747
	PARKS CONSTRUCTION STANDARDS 316 Vernon Street, Suite 400, Roseville, CA 95678
	DESIGN AND CONSTRUCTION STANDARDS 311 Vernon Street, Roseville, CA 95678
	OTHER

Above documents are available at: www.roseville.ca.us.

2. Numbering in these Supplemental Conditions conforms to that in the General Conditions. The existence of a section in these Supplemental Conditions means that the corresponding section in the General Conditions is modified in some respect. Unless otherwise specified, the modified General Condition is deleted entirely and the provisions of these Supplemental Conditions are substituted.

SECTION 1. DEFINITIONS AND TERMS

1-1.24 **DEPARTMENT.** Section 1-1.24 of the General Conditions is amended to include the following:

The Department for Contract Administration is the Electric Department of the City of Roseville.

SECTION 2. CONTROL AND SCOPE OF THE WORK

2-1.08 **SUBMITTALS.** Section 2-1.08 of the General Conditions is amended to include the following:

The time allowed for review of each submittal is 5 Days after receipt of the submittal by the Director.

SECTION 3. CHANGES IN THE WORK

There are no amendments to the General Conditions.

SECTION 4. CONTROL OF MATERIALS

There are no amendments to the General Conditions.

SECTION 5. LEGAL RELATIONS AND RESPONSIBILITY

5-1.14 **AIR POLLUTION CONTROL AND ASBESTOS.** Section 5-1.14 of the General Conditions is amended to include the following:

To the best of the City's knowledge, asbestos not present in the vicinity of the Project. Additional information shall be made available to Contractor upon request.

SECTION 6. PROSECUTION AND PROGRESS

6-1.04 **PROGRESS SCHEDULE.** Section 6-1.04F of the General Conditions is amended to include the following:

Progress schedules showing project completion dates more than 30 Days earlier than specified in Section 6-1.07 shall be rejected.

6-1.07 **TIME OF COMPLETION.** Section 6-1.07 of the General Conditions is amended to include the following:

The Contractor shall begin Work within 5 business days after receiving a Notice to Proceed and shall diligently prosecute the Work to completion. The Work shall be completed within 125 calendar days of the Notice to Proceed.

If landscaping plants require an establishment period, that period will be 60 calendar days. Start of the establishment should be as outlined in the Specifications.

6-1.08 **LIQUIDATED DAMAGES.** Section 6-1.08 of the General Conditions is amended to include the following:

The amount of Liquidated Damages is the sum of \$500 per Day.

SECTION 7: ACCEPTANCE AND PAYMENT

There are no amendments to the General Conditions.

[END OF SUPPLEMENTAL CONDITIONS]

TEXT OF AB 626

Assembly Bill No. 626

CHAPTER 810

An act to add and repeal Section 9204 of the Public Contract Code, relating to public contracts.

[Approved by Governor September 29, 2016. Filed with Secretary of State September 29, 2016.]

LEGISLATIVE COUNSEL'S DIGEST

AB 626, Chiu. Public contracts: claim resolution.

Existing law prescribes various requirements regarding the formation, content, and enforcement of state and local public contracts. Existing law applicable to state public contracts generally requires that the resolution of claims related to those contracts be subject to arbitration. Existing law applicable to local agency contracts prescribes a process for the resolution of claims related to those contracts of \$375,000 or less.

This bill would establish, for contracts entered into on or after January 1, 2017, a claim resolution process applicable to any claim by a contractor in connection with a public works project. The bill would define a claim as a separate demand by the contractor for one or more of the following: a time extension for relief from damages or penalties for delay, payment of money or damages arising from work done pursuant to the contract for a public work, or payment of an amount disputed by the public entity, as specified.

This bill would require a public entity, defined to exclude certain state entities, upon receipt of a claim sent by registered or certified mail, to review it and, within 45 days, provide a written statement identifying the disputed and undisputed portions of the claim. The bill would authorize the 45-day period to be extended by mutual agreement. The bill would require any payment due on an undisputed portion of the claim to be processed within 60 days, as specified. The bill would require that the claim be deemed rejected in its entirety if the public entity fails to issue the written statement.

This bill would authorize, if the claimant disputes the public entity's written response or if the public entity fails to respond to a claim within the time prescribed, the claimant to demand to meet and confer for settlement of the issues in dispute. The bill would require any disputed portion of the claim that remains in dispute after the meet and confer conference to be subject to nonbinding mediation, as specified. The bill would provide that unpaid claim amounts accrue interest at 7% per annum. The bill would prescribe a procedure by which a subcontractor or lower tier contractor may make a claim through the contractor.

This bill would require the text of these provisions, or a summary, to be set forth in the plans or specifications for any public work which may give rise to a claim. The bill would specify that a waiver of these rights is void and contrary to public policy, except as specified. The bill would also specify that it does not impose liability on a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

By increasing the duties of local agencies and officials, this bill would impose a state-mandated local program.

This bill would, on January 1, 2020, repeal the provision establishing the claim resolution process.

This bill would specify that these provisions constitute a matter of statewide concern.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that, if the Commission on State Mandates determines that the bill contains costs mandated by the state, reimbursement for those costs shall be made pursuant to these statutory provisions.

The people of the State of California do enact as follows:

SECTION 1. Section 9204 is added to the Public Contract Code, to read:

9204. (a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

(c) For purposes of this section:

(1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.

(2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.

(3) (A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) "Public entity" shall not include the following:

(i) The Department of Water Resources as to any project under the jurisdiction of that department.

(ii) The Department of Transportation as to any project under the jurisdiction of that department.

(iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.

(iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.

(v) The Military Department as to any project under the jurisdiction of that department.

(vi) The Department of General Services as to all other projects.

(vii) The High-Speed Rail Authority.

(4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d) (1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2) (A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each

party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

(C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

(D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

(E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

(3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

(4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

(5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

(e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.

(f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.

(g) This section applies to contracts entered into on or after January 1, 2017.

(h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

(i) This section shall remain in effect only until January 1, 2020, and as of that date is

repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

SECTION 2.

The Legislature finds and declares that it is of statewide concern to require a charter city, charter county, or charter city and county to follow a prescribed claims resolution process to ensure there are uniform and equitable procurement practices.

SECTION 3.

If the Commission on State Mandates determines that this act contains costs mandated by the state, reimbursement to local agencies and school districts for those costs shall be made pursuant to Part 7 (commencing with Section 17500) of Division 4 of Title 2 of the Government Code.

**SPECIFICATION
INDUSTRIAL SUBSTATION SWITCHGEAR FOUNDATION
AND FIDDYMENT TRANSFORMER ADDITION
CONSTRUCTION SPECIFICATION**

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1. **SCOPE OF WORK**

- 1.1 This Specification covers the labor, supervision and materials required for the following projects:
 - 1.1.1 Replace the bay 2 medium voltage switchgear concrete foundation at Industrial Substation. This project consists of the following: clearing and grubbing of existing concrete foundation, construction of new reinforced concrete foundation, installation of underground electrical conduits, installation and reconfiguration of concast trench system, grounding and grounding pigtails as shown on drawings and as needed, and repair of any part of the substation yard that is disturbed.
 - 1.1.2 Construct new facilities at Fiddymment Substation. This project consists of the following: construction of new reinforced concrete pads and piers, installation of underground electrical conduits, installation of Concast trench system, grounding and grounding pigtails as necessary, and repair of any existing facilities disturbed during construction.
- 1.2 Work Included: Contractor shall perform all labor, coordination, supervision, surveying, inspection, site and laboratory testing that is required to construct the needed items. All labor, material, testing and associated construction costs are the responsibility of the Contractor unless specifically stated otherwise.

The principal components of the work include, but are not limited to the following:

- 1.2.1 Establish the reference and boundary lines.
- 1.2.2 Demo reinforced concrete switchgear foundation as shown on the drawings.
- 1.2.3 Construct concrete foundations for the new equipment as shown on the drawings.
- 1.2.4 Furnish and install underground low voltage control wiring conduits and reconfigure cable trench system as shown on drawings.
- 1.2.5 Repair substation grounding system as necessary for excavation and construction of concrete foundations.
- 1.2.6 Reconstruct conduits as needed for outgoing distribution circuits
- 1.2.7 Remove and dispose of all surplus materials including surplus excavated materials from sites.
- 1.2.8 Install and remove new concast trench system as needed.
- 1.2.9 Install underground junction boxes as necessary.

1.2.10 Install new grounding and grounding pigtailed as shown on the drawings.

1.2.11 Supply and implement necessary BMP's for erosion and sediment control.

1.3 This Specification shall be used together with the following:

1.3.1 Construction drawings listed in Section 3.

1.3.2 The Supplemental Conditions.

1.3.3 Roseville Electric Specifications for Commercial Construction.

1.3.4 Other standard specifications.

1.3.5 General Conditions for Buildings and Grounds.

In case of any conflicts between the requirements stated above, the order of precedence shall be as follows:

- A. Construction drawings listed in Section 3 (highest).
- B. The Supplemental Conditions.
- C. This Specification.
- D. Other standard specifications.
- E. General Conditions for Buildings and Grounds.

2. GENERAL PROVISIONS

2.1 Contractor shall examine the site and determine the amount, nature and difficulty of the proposed work. Contractor shall evaluate the requirements of the plans, specifications, bid package and existing conditions and bid accordingly. Contractor shall satisfy himself/herself of the soil conditions prior to bidding this project. The contract price shall be based on a lump sum basis.

2.2 If there is a doubt as to the true meaning of any part of the plans, specifications, or the contract documents or if discrepancies in or omissions from the drawings or specifications are found, a written request should be made to the City for interpretation. No payment will be made to the Contractor because of error, negligence or failure to become familiar with the existing conditions or requirements of the plans, specifications and bid package.

- 2.3 The safety of all materials and labor used in this project is left solely to the Contractor. Any loss due to weather, acts of God, vandalism, theft, poor workmanship, or any other loss is the responsibility of the Contractor and it is assumed to be part of this bid and bid price. City will not be responsible for the loss of any material and/or labor.
- 2.4 Appropriate tarps and covers shall be used to protect all open trenches, excavations and removed materials that are planned to be used for backfill from wind, rain and other weather conditions.
- 2.5 Underground Service Alert (USA) must be called before any digging is started. The phone number of USA is 1-800-642-2444. There are existing underground installations in the working area including electrical power cables installed by the City, water and sewer lines, gas and telephone facilities. The as-built drawings are available for inspection at the Electric Department. These drawings are not exact and the Contractor agrees to hold the City harmless for any errors that may be on the plans or for any damage that the Contractor may do to existing facilities due to the plans. Any damage to existing underground facilities including the electrical power cables or to the conduit system done by the Contractor is the complete responsibility of the Contractor. **There are existing underground conductors energized at 12,000 volts on and adjacent to this site.**
- 2.6 There are existing exposed 230-kV and 60-kV energized conductors above the working areas. All work under these exposed conductors shall be restricted at ground level only. Outage and clearance must be pre-arranged with Roseville Electric before working in close proximity to the live conductors. Overhead conductors **will not be removed** to allow access for drilling equipment. Drilling equipment must be of a height as to not interfere or damage overhead conductors.
- 2.7 All work inside the existing energized Industrial and Fiddymont Substations will be under the supervision of City of Roseville Electric Department's representative to ensure all relevant safety procedures are followed.
- 2.8 If work is performed within 10 feet of normally energized equipment, suitable type of protective clothing shall be used by all persons per specification 2.9 below. The 10 feet is not the reach distance. It is measured as a footprint with a 10-foot perimeter around all normally energized equipment including wire, overhead line, bus and underground cable. Inside this perimeter, approved FR protective clothing shall be worn. When working at ground level only in an area without any aboveground energized conductors, if the work does not dig in or expose any underground live cables, the FR clothing requirement may be waived with the approval from Roseville Electric site supervisor or Engineer.
- 2.9 When working within the 10-foot perimeter of energized equipment as defined by 2.8 above, no clothing made from acetate, nylon, polyester, and rayon alone or in blends shall be worn. Clothing or underwear worn next to the skin shall be made of FR material or

natural fibers. Caution – some of the new synthetic materials melt at temperatures as low as 140 deg. C. Personnel that may be exposed to an electric arc shall wear the FR shirt rated at 8 ATPV over 100% cotton T-shirt in conjunction with FR pants rated at 8 ATPV. Worn and threadbare denim pants do not have the ignition or protective level required shall not be worn. The FR shirt sleeves shall be rolled down and secured at the wrist when exposed to the potential thermal hazard area.

- 2.10 Contractor shall coordinate and comply with the statutory requirements of all relevant authorities for the due and lawful prosecution of the work. The contractor shall be liable for all monetary fines assessed during construction due to non-compliance on the part of the contractor and subcontractors.
- 2.11 Unless otherwise approved by the Engineer, the normal working hours shall be limited to Monday through Friday, excluding City's holidays, between 7 a.m. and 3:30 p.m.
- 2.12 Contractor shall preserve the existing landscape surrounding the substation site. Any damage done to the landscaping in the surrounding area by the Contractor shall be repaired to the City's satisfaction at the cost of the Contractor. This cost is assumed to be part of this bid and bid price.
- 2.13 **Except as otherwise provided in Section 2.14, Contractor shall furnish all materials, utilities, electrical power, supplies, tools, construction equipment, temporary traffic facilities, and all items of consumable nature that are required to complete the work.**
- 2.14 The following lists the items that will be furnished by the City:
 - 2.14.1 Anchor bolts for the 12kV Switchgear at Industrial Substation.
 - 2.14.2 Anchor bolts for the 230/60kV Transformer at Fiddymont Substation.
 - 2.14.3 Anchor bolts and anchor bolt templates for concrete pier foundations at Fiddymont Substation.
- 2.15 A mandatory prebid meeting will be held in accordance with meeting details posted on the Public Purchase website which will include an inspection of the project sites. FR clothing per sections 2.8 and 2.9 shall be required for the on-site inspection.
- 2.16 **Contractor Submittals and Qualification-** Along with the bid submittal, contractor shall provide a list of substation projects for Electric Utilities only that have been completed in last fifteen years. The project list shall include scope of work, total contract amount, change orders and number of weeks to complete the entire project. The client list shall include the name, address and contact phone numbers of all companies for which the contractor has previously built related projects. **Contractor and its foreman or supervisor assigned for this project must have performed construction projects in at least three electric**

substations at 60-kV or above, during the last ten years. Please identify the name and location of your three most recent electric substation projects. Bids will be rejected by any Contractor that does not meet these requirements/qualifications.

2.17 **Time of Completion:** The Contractor shall perform all specified work within the following number of days after the date on the Notice to Proceed.

2.17.1 Work at Industrial Substation shall take place approximately between late August and late September 2020:

Begin Site Construction	5 calendar days
Switchgear Foundation	20 calendar days
Conduit, Concast Trench, Ground Grid	10 calendar days

2.17.2 Work at Fiddymont Substation shall take place approximately between October and December 2020:

Begin Site Construction	5 calendar days
Transformer Foundation	45 calendar days
Complete all work	90 calendar days

2.18 **Prevailing Wages and DIR Registration Notice** - A portion of the services described herein are for publicly funded projects, considered “public works” as defined by California Labor Code Section 1720 et seq. Any Contractor awarded a contract as the result of this bid shall be responsible for compliance with all applicable prevailing wage laws, as well as any and all applicable state or federal wage laws, for services performed under any resulting contract. Fee schedules must differentiate hourly rates for public works and private development projects and be consistent with applicable prevailing wage requirements.

Provide documentation verifying that your firm and any sub-consulting firm is registered with the Department of Industrial Relations (DIR), including the Public Works Contractor (PWC) Registration Number for all firms. Consultants are hereby notified that this agreement and task agreements hereunder are, as applicable, subject to compliance monitoring and enforcement by DIR.

2.19 **Mitigation Monitoring and Reporting –**

Mitigation Measure CR-1 (Previously Unidentified Cultural Resources)

- (a) Construction shall stop if potential cultural resources are encountered. It is possible that previous activities have obscured surface evidence of cultural resources. If signs of an archeological site, such as any unusual amounts of stone, bone, or shell, are uncovered during grading or other construction activities, work

shall be halted within 100 feet of the find and the Roseville City Manager's Office shall be notified. A qualified archeologist shall be consulted for an on-site evaluation. If the site is or appears to be eligible for listing in state or federal registers, additional mitigation, such as further testing for evaluation or data recovery, may be necessary.

- (b) In the event resources are discovered, the City shall request a qualified archaeologist assess the find, and determine whether the resource requires further study. Any previously undiscovered resources found during construction should be recorded on appropriate Department of Parks and Recreation (DPR) 523 forms and evaluated for significance under all applicable regulatory criteria.
- (c) No further grading shall occur in the area of the discovery until the City approves the measures to protect the resources. Any archaeological artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the Lead Agency where they would be afforded long-term preservation to allow future scientific study.

Mitigation Measure CR-2 (Previously Unidentified Paleontological Resources)

If substantial fossil remains (particularly vertebrate remains) are discovered during earth-disturbing activities on the project site, activities will stop immediately until a state-registered professional geologist or qualified professional paleontologist can assess the nature and importance of the find and a qualified professional paleontologist can recommend appropriate treatment. Treatment may include preparation and recovery of fossil materials so that they can be housed in an appropriate museum or university collection and may also include preparation of a report for publication describing the finds. The applicant will be responsible for ensuring that recommendations regarding treatment and reporting are implemented.

Mitigation Measure CR-3 (Inadvertent Discovery of Human Remains)

If human remains are discovered during any phase of construction, including disarticulated or cremated remains, the construction contractor shall immediately cease all ground-disturbing activities within 100 feet of the remains and notify Terri Shirhall, Environmental Coordinator, City of Roseville Development Services.

In accordance with California State Health and Safety Code Section 7050.5, no further disturbance shall occur until the following steps have been completed:

- (a) The County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code (PRC) § 5097.98.

- (b) If the remains are determined by the County Coroner to be Native American, the NAHC shall be notified within 24 hours, and the guidelines of the NAHC shall be adhered to in the treatment and disposition of the remains. It is further recommended that a professional archaeologist with Native American burial experience conduct a field investigation of the specific site and consult with the Most Likely Descendant (MLD), if any, identified by the NAHC. As necessary and appropriate, a professional archaeologist may provide technical assistance to the MLD, including but not limited to, the excavation and removal of the human remains.

3. DRAWING LIST

315C1-07	Industrial Substation Switchgear 2 Foundation Detail
315C1-09	Industrial Substation Existing Switchgear Pad
315C1-13	Industrial Substation Location Plan
315C1-17	Industrial Substation Conduits, Trenching and Lighting
315C1-22	Industrial Substation Grounding Plan
315C1-26	Industrial Substation Conduit Layout
315C1-27	Industrial Substation Containment and Grading
315C1-34	Industrial Substation Stair/Ramp Details
325C1-01	Fiddymment Substation Vicinity and Site Location Plan
325C1-03	Fiddymment Substation Site and Grading Plan
325C1-40	Fiddymment Substation Pier & Foundation Details
325C1-41	Fiddymment Substation Transformer Foundation Details
325C1-42	Fiddymment Substation Foundation & Conduit Plan
325C1-43	Fiddymment Substation Grounding Plan

4. EXISTING SITE CONDITIONS

- 4.1 Existing underground electrical cables energized at 12,000 volts and other control cables are on both sites.
- 4.2 The existing sites have been graded. After modification work for the project, all area must be restored to the original grading.
- 4.3 Soils investigation has been carried out at Fiddymment substation.
- 4.4 Topographic Survey has not been conducted on the site.
- 4.5 A copy of the Geotechnical Report is included in this manual for Fiddymment Substation. A Geotechnical Report for Pleasant Grove Substation which is located 900 ft away from Industrial Substation has been provided as reference only. Contractor shall review this report and bid accordingly.

5. CONSTRUCTION SURVEYING

- 5.1 The Contractor shall lay out all proposed improvements in accordance with the plans and these specifications.
- 5.2 Contractor shall layout all proposed improvements from lines established by the drawings.

6. SITE PREPARATION AND GRADING

- 6.1 Contractor shall prepare the site in accordance with the drawings and these specifications. Site preparation shall include clearing of existing debris, grading and sub-grade preparation. All trench work must be inspected by Roseville Electric before backfilling.
- 6.2 Sub-grade preparation shall include areas that will receive crushed rock and aggregate base.
- 6.3 The area within the limits of the substation site shall be cleared and graded.
- 6.4 Clearing shall consist of removal of debris, vegetation, waste, or other unacceptable sub-grade material.
- 6.5 Grading shall include construction of embankment, cutting, shaping, blading, and rolling and all other operations necessary to achieve the proposed elevations, slope and compaction.
- 6.6 The intent of the grading information shown on the drawings is to provide for a free draining surface.
- 6.7 Grade tolerance for sub-grade and cut or fill slopes shall be plus or minus one inch from the finished elevation shown on the drawings. However, the tolerance shall not create small pools or otherwise affect the intent of the free draining surfaces.

7. EARTHWORK AND COMPACTION

- 7.1 Immediately prior to surfacing, the sub-grade shall be shaped to the grade and cross section indicated on the drawings. The top six inches of the sub-grade shall be compacted to 95 percent of maximum density at optimum moisture content as determined by ASTM D698 when that test is appropriate, or to 70 percent relative density as determined by ASTM D4253 and D4254 when these tests are appropriate. This operation shall include any scarifying, reshaping, and wetting required to obtain proper compaction. Soft, organic, and otherwise unsuitable material shall be removed from the sub-grade and

replaced with suitable material approved by the Engineer.

- 7.2 Any deviation of the sub-grade surface in excess of one inch as indicated by a sixteen-foot straightedge, or template cut to typical section, shall be corrected by loosening, adding or removing material, reshaping, and recompacting.
- 7.3 In cut areas and in areas of less than six inches of compacted fill, the top six inches shall be scarified and thoroughly mixed by discing or blading and watered or aerated as necessary to achieve optimum moisture content. It shall be compacted to 95% relative density.
- 7.4 Where compacting earth materials is required, materials shall be deposited in horizontal layers and compacted as specified.
- 7.5 The soil compaction tests shall be performed by an independent testing laboratory approved by the Engineer. The laboratory shall be retained by the Contractor and all costs for laboratory services shall be paid by the Contractor.

8. EXCAVATION AND BACKFILL FOR TRENCHES AND FOUNDATIONS

- 8.1 Excavation, backfill, and compaction for trenches and structures shall be in accordance with the drawings and these specifications.
- 8.2 All excavation shall be to the lines and grades required for foundations, conduits, grounding and other facilities. Excavation shall be large enough to allow form removal and working space to backfill and compact.
- 8.3 The bottom of excavations for foundations shall be a smooth plane with the top six inches compacted to 95 percent relative density. The bottom of drilled holes shall be free of loose or disturbed soil.
- 8.4 Any over excavation and resultant backfilling, compacting, or concreting will be considered as incidental work and included in the bid prices.
- 8.5 Backfill shall be free of organic matter, large rocks or any other deleterious material. Rocks or clods larger than 1-1/2 inches in diameter will not be allowed within 6 inches of any conduit or ground wire. All backfill will be subject to the approval of the Engineer. Backfill shall be watered and aerated to an optimum moisture content in successive lifts not to exceed six inches and compacted to relative density of 95 percent.
- 8.6 No backfill shall be made until the work to be covered has been approved by the Engineer. External back filling materials must be approved by the Engineer before use.

- 8.7 Contractor shall locate, protect, shore, brace, support, and maintain all existing underground pipes, conduits, drains, and other underground construction which may be uncovered or otherwise affected by the work.
- 8.8 Existing improvements and underground facilities have been plotted from the best information available. However, this information is not complete or accurate. There may be additional existing facilities. The utility information shown on the plans shall not relieve the Contractor of the responsibility of using caution and good judgment. It is the responsibility of the Contractor to ascertain the exact location of all existing facilities and to avoid damaging them.
- 8.9 Existing improvements that are damaged shall be replaced to an original or better condition. All repair and restoration shall be to the satisfaction of the City of Roseville.
- 8.10 Excavation by machinery shall be approved by the Engineer or City's Electric Department representative in consideration of the safe electrical working clearances and close proximity to the existing energized conductors and underground conduits. The contractor must pot-hole and locate the exact location of the underground 12-kV conduits before any excavation and drilling near the cables location identified by the Electric Department as part of the USA requirements.
- 8.11 All work shall be carried out effectively and tidily to ensure minimum inconvenience to the substation operation. All drains and gullies shall be kept clear of excavation materials at all times.
- 8.12 Drilling equipment for drilling the pier foundations shall have sufficient power for drilling the piers in the soil conditions present on site. The Geotechnical Report is included in this manual. Drilling equipment must also comply with the height requirements referenced in Section 2.6.

9. UNDERGROUND CABLE CONDUITS AND TRENCHES

- 9.1 The underground power cable and control cable conduits and trench system shall be installed as shown on the drawings and the requirements stated in the City of Roseville Specifications for Commercial Construction (Appendix "A").
- 9.2 Power conduits and couplings shall be minimum Schedule 40 PVC. The solvent used shall be in accordance with ASTM-2564 for PVC. All conduits shall be blown free of water and debris. A 3/8" diameter nylon pull rope shall be provided for each conduit.
- 9.3 All conduits shall be proven by a proving mandril equal to 80 percent of the conduit diameter. The proving tests shall be witnessed and approved by the Engineer.
- 9.4 Conduits that are encased in concrete shall be encased with a 3/8" aggregate concrete mix

with a seven inches slump and with a normal strength of 2,500 lbs. The encasement shall cover at least three inches on any side of the conduits. All conduit outlets must be set perfectly vertical or inclined at an angle at the bottom of the trench to the direction as showed on the drawings.

10. GROUNDING SYSTEM

- 10.1 Contractor shall locate the existing grounding conductors as shown on the Drawings. The contractor shall provide the grounding conductors, welding materials and perform the connections to the ground grids.
- 10.2 The Contractor shall install ground rods, grounding conductors and pig-tails for the equipment structures as shown on the Drawings.
- 10.3 All grounding grid conductors and rods shall be connected by exothermal welding, e.g. Cadweld or approved equivalent.

11. REINFORCED CONCRETE FOUNDATIONS

- 11.1 The Contractor shall construct the reinforced concrete foundations in accordance with the drawings and these specifications.
- 11.2 The foundation shall be accurately located, sized and plumbed. The maximum variation of any foundation from its designed location shall not be more than two (2) inches. **The variation of the top surface of all foundations shall not exceed 1/8 inch in 12 feet.** All edges shall be chamfered. The Contractor shall employ a licensed surveyor to stake the foundation locations and to check the tolerance of the top surface of the foundations.
- 11.3 The surplus excavated materials shall become the property of the Contractor and shall be removed from the site. All excavation shall be made to the lines and grades shown on the drawings. The bottom surface of the excavation shall be free of loose or disturbed material. Any over excavation and resulting backfilling, compacting, or concreting shall be considered incidental. No separate payment will be made.
- 11.4 No classification of excavated materials will be made except for identification purposes. Foundation excavation shall include the removal and subsequent handling of all materials encountered in excavating the foundation to the depth required.
- 11.5 Blasting will not be permitted on the site.
- 11.6 The steel support structure foundation piers shall be drilled with an auger in earth and with a rock drill in rock. Casings shall be used where the sides of the excavation are unstable and may be used at all locations. Drilling equipment shall be designed to drill

straight and clean holes. Casings, if used, shall be installed as the drilling proceeds or immediately after the auger is withdrawn as required to prevent sloughing and caving of the excavation walls. Contractor may elect to advance the excavation and facilitate the removal of cuttings by utilizing a densified fluid.

- 11.7 Casings shall be of steel or fiber construction and shall be of ample strength to withstand handling and installation stresses. Casing shall be removed as the concrete is placed. The casing extraction shall be facilitated by the use of a vibratory extractor. During removal the casing shall be continually plumb and the concrete surface within the casing shall be continually observed for maintenance of concrete "head" sufficient to offset the external water head of the casing. A minimum head of 4 to 5 feet of concrete shall be maintained above the bottom of the casing during casing extraction.
- 11.8 Control joints shall be placed on foundations as shown on the drawings. The Burke "Key Kold Joint" compound or equal shall be used.
- 11.9 Concrete work for foundation shall conform to the requirements of the section entitled "Cast-in-Place Concrete" and to these additional requirements. Concrete shall reach a minimum compressive strength of 3,500 psi in 28 days unless otherwise specified on the drawings. For each cement truck load only, Contractor shall employ an independent testing laboratory to take concrete samples at the job site and to perform compression testing at 14 and 28 days for compliance with these specifications. One test shall be performed on each batch of concrete. The testing laboratory shall be approved by the Engineer.
- 11.10 All water and loose materials shall be removed from the holes before any concrete is placed. Foundation holes shall be dry except as specified hereinafter. **No concrete shall be poured without prior inspection by City Engineer.**
- 11.11 Concrete shall be placed with a tremie or funnel to prevent segregation and the top six feet shall be rodded or vibrated to provide a dense mass free of voids. As placed, the concrete shall have a slump between 2-1/2 and 4 inches. During the filling of the holes, if water begins to accumulate on the top of the concrete, the amount of water in succeeding batches shall be reduced. Should there be an accumulation of scum or laitance on the top of the concrete, it shall be removed and additional concrete shall be placed to bring the foundation back to the proper elevation.
- 11.12 After the concreting is started for each foundation, it shall be completed in a continuous process. A sufficient quantity of concrete to fill the foundation shall be in delivery trucks at the foundation site when the first concrete is placed in each foundation. If the concreting of any foundation is suspended for more than 30 minutes before the foundation is completed, laitance and water shall be removed from the joint surface and the joint surface shall be coated with epoxy bonding compound before concreting is resumed. In order to provide for an emergency stoppage, bonding compound shall be at

the site before the concreting of foundations is started.

- 11.13 Foundations shall be reinforced as indicated on the drawings and all reinforcements shall be installed and secured to prevent shifting during the placement of concrete. Anchor bolt cages for steel pole foundations shall be installed plumb and within 1/8 inch of their specified plan location. The upper portion of the foundations shall be formed where indicated on the drawings. Shores and frames shall remain in place a minimum of two days and may be removed only when the concrete has reached a strength capable of supporting its weight safely. Each foundation shall be cured for at least 7 days by continuous saturation with water or the use of membrane curing compound as specified in the section entitled "Cast-in-Place Concrete".
- 11.14 Records shall be kept by the Contractor indicating the exact volume of each foundation excavated and this volume shall then be compared to the volume of concrete actually placed in each foundation. A lesser amount of concrete placed than calculated may indicate faulty foundation construction. In the event of such an occurrence, the Engineer shall be notified, and immediate remedial action shall then be taken by the Contractor.
- 11.15 Concrete shall not be deposited under water except with specific permission of the Engineer.

For concrete deposited under water, the limiting requirements shall be adjusted to provide not more than six inches of slump and to increase the cement factor by one sack per cubic yard. Any extra charges for these changes by the concrete supplier shall be borne by the Contractor.

Underwater concrete shall be placed through tremies. The tremies shall be equipped with a tremie seal at the lower end and a hopper at the upper end. The tremie shall be watertight and large enough to allow a free flow of concrete. After the flow of concrete is started, the lower end of the tremie shall be kept below the surface of the deposited concrete. Agitation of the deposited concrete shall be avoided. When necessary to move laterally, the tremie shall be lifted free of the concrete and lowered vertically at the new location. The entire mass of concrete shall be placed as quickly as possible so that it will flow into place without the necessity of horizontal shifting below water.

The water shall be quiescent when concrete is deposited therein. After placing, the ground water level in the area adjacent to the foundation shall be kept static until the concrete has taken its initial set.

- 11.16 The anchor bolt cage and the rebar cage shall be clean, dry and free of rust, dirt and oil. Anchor bolt cage may be welded to hold its shape. The rebar cage shall NOT be welded. No welds will be permitted for the rebar cage.

- 11.17 Any Anchor bolts for the foundations supplied by the contractor shall conform to ASTM A-307 and be galvanized in accordance with ASTM A-153.

12. CAST-IN-PLACE CONCRETE

- 12.1 General. This section covers cast-in-place concrete and includes reinforcing steel, forms, finishing, curing, grouting, and other appurtenant work. Contractor shall submit concrete mix specifications prior to ordering to the City Engineer in order to confirm it complies with these specifications.

Cast-in-place concrete shall be in accordance with the latest applicable requirements of the Federal Specifications, ACI, ASTM, and CRSI, except as modified by these specifications.

- 12.2 Materials. Materials shall be in accordance with these requirements:

Cement:	ASTM C150, Type I & II
Fine Aggregate:	Clean natural sand, ASTM C-33
Coarse Aggregate:	Crushed stone, washed gravel, or other acceptable inert granular material conforming to ASTM C-33. Maximum size of aggregate to be 3/4".
Water:	Clean and free from deleterious substances.
Air-entraining Agent:	ASTM C260
Plasticizing Retarder:	ASTM C494, Type B or D
Plasticizer:	ASTM C494, Type A
Reinforcing Steel Bars:	ASTM A615-85, Grade 60
Forms:	
Plywood:	Product Standard PSI, waterproof, resin-bounded, exterior type Douglas Fir.
Lumber:	Straight, uniform width and thickness, and free from knots, offsets, holes, dents, and other surface defects.
Chamfer Strips:	Clear pine, surface against concrete shall be planed.

Form Oil: Light colored paraffin oil or other acceptable non-staining material.

13. CRUSHED ROCK SURFACING

- 13.1 Contractor shall furnish and restore crushed rock in accordance with the drawings and these specifications. Rock shall be washed and a uniform size of 3/4-inch with 100% fractured faces. The rock shall be clean and free of deleterious materials for its intended use. The rock surfacing shall have a minimum thickness of six inches or as indicated on the drawings.
- 13.2 Prior to applying the crushed rock surfacing, the Contractor shall apply weed eradicator and soil fumigant in strict accordance with the manufacturer's instructions. Contractor is cautioned to apply weed eradicator and soil fumigant only to the crushed rock surfacing areas and to refrain from applying such material when conditions may cause drifting to areas which are not to be treated.
- 13.3 The rock surfacing shall be smooth, hard and tight and free draining. Rock shall be spread evenly without humps or depressions.

14. AGGREGATE BASE

- 14.1 Contractor shall furnish, place and compact aggregate base in accordance with the drawings if required for touch up area. The materials and application of aggregate base shall comply with Section 26 of the CALTRANS "Standard Specifications", latest edition, and these specifications.
- 14.2 The subgrade shall be prepared in accordance with Section 7, Earthwork and Compaction.
- 14.3 The aggregate base shall be compacted, trimmed and shaped by blading and rolling to produce a hard and tight surface. The finish surface shall be true to grade and free of segregation, irregularities, depression, or loose material. The compacted aggregate base shall have a uniform thickness of six (6) inches. The surface of the aggregate base shall not vary more than 0.05-foot above or below the grades shown on the drawings. The relative compaction for aggregate base shall not be less than 95 percent. The maximum aggregate size shall be 3/4-inch.

15. ASPHALT CONCRETE PAVEMENT

- 15.1 The asphalt concrete surface, if required for touch up area, shall be hot-mix hot-laid asphalt concrete pavement. Areas to be paved are as indicated on the drawings.

- 15.2 Unless otherwise specified herein, the materials and workmanship shall comply with Sections 39 and 92 of the California Department of Transportation Standard Specification, Latest Edition.
- 15.3 Major earthwork including subgrade preparation shall be in accordance with Section 7, Earthwork and Compaction.
- 15.4 Aggregate base requirements are specified in Section 14, Aggregate Base.
- 15.5 All asphalt paved areas constructed under these specifications shall be maintained by the Contractor until final acceptance of the work by the City.
- 15.6 Materials for the asphalt concrete shall conform to the following requirements as defined by the California Department of Transportation Standard Specifications, Latest Edition.

Asphalt concrete	Type A
Aggregate grading	1/2 inch maximum, medium
Asphalt cement	Steam-refined paving asphalt, viscosity Grade AR-4000
Asphalt concrete (percent by weight of total mix)	4 to 7 percent

- 15.7 The asphalt concrete shall be placed in one lift with an asphalt paver or spreader to provide a nominal compacted thickness of four (4) inches. Placing the asphalt concrete mixture shall be a continuous operation. If any irregularities occur, they shall be corrected before final compaction of the mixture.
- 15.8 The completed paving shall have a density equal to or greater than 95 percent of the density of a laboratory specimen made in the proportions of the job mix formula.
- 15.9 The surface of the completed pavement shall be checked longitudinally and transversely for smoothness with a 10 foot straightedge. The surface shall not vary more than 1/4 inch in 10 feet parallel to the center line and not more than 1/2 inch at right angles to the center line.
- 15.10 Construction joints shall be made in such a manner as to assure a neat junction, thorough compaction, and bond throughout.

16. Erosion and Sediment Control

- 16.1 Contractor shall supply and implement all necessary Best Management Practices (BMP's)

in order to control erosion and prevent sediment from entering the stormwater system.

16.2 Measures shall include but not limited to the following:

16.2.1 Geotextiles and mats.

16.2.2 Velocity dissipation devices.

16.2.3 Silt fence.

16.2.4 Sediment basin or trap.

16.2.5 Fiber rolls.

16.2.6 Street sweeping and vacuuming.

16.2.7 Sand bag or straw bale barrier.

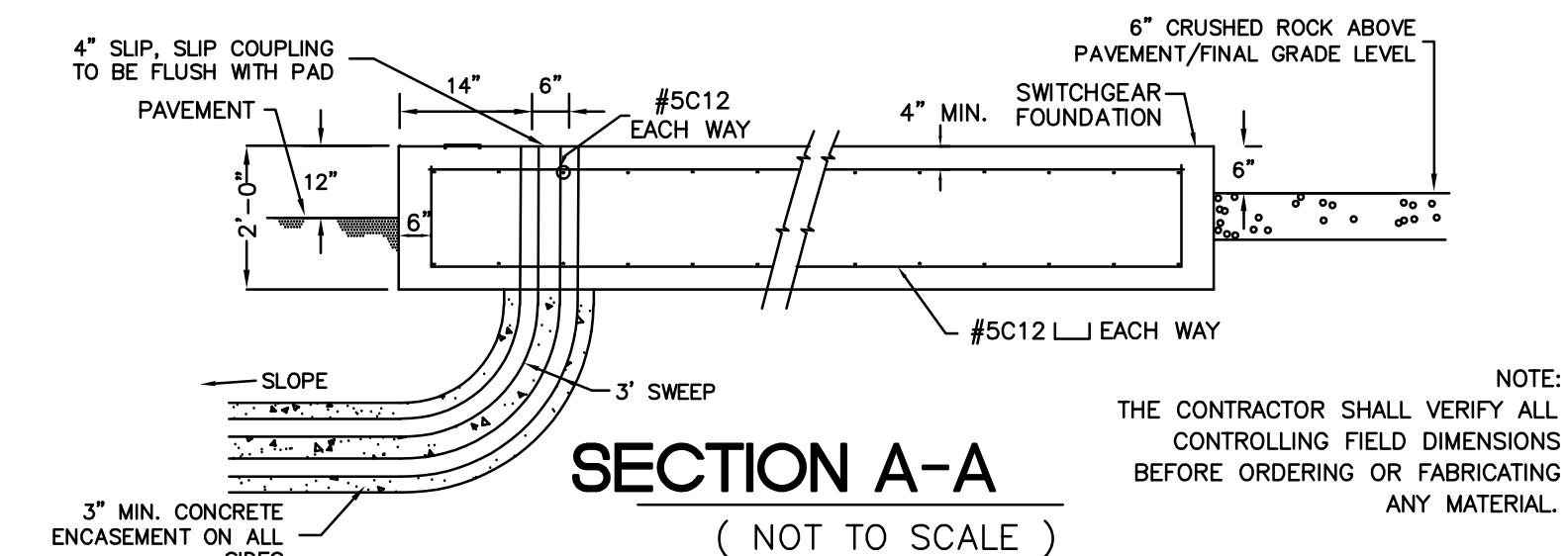
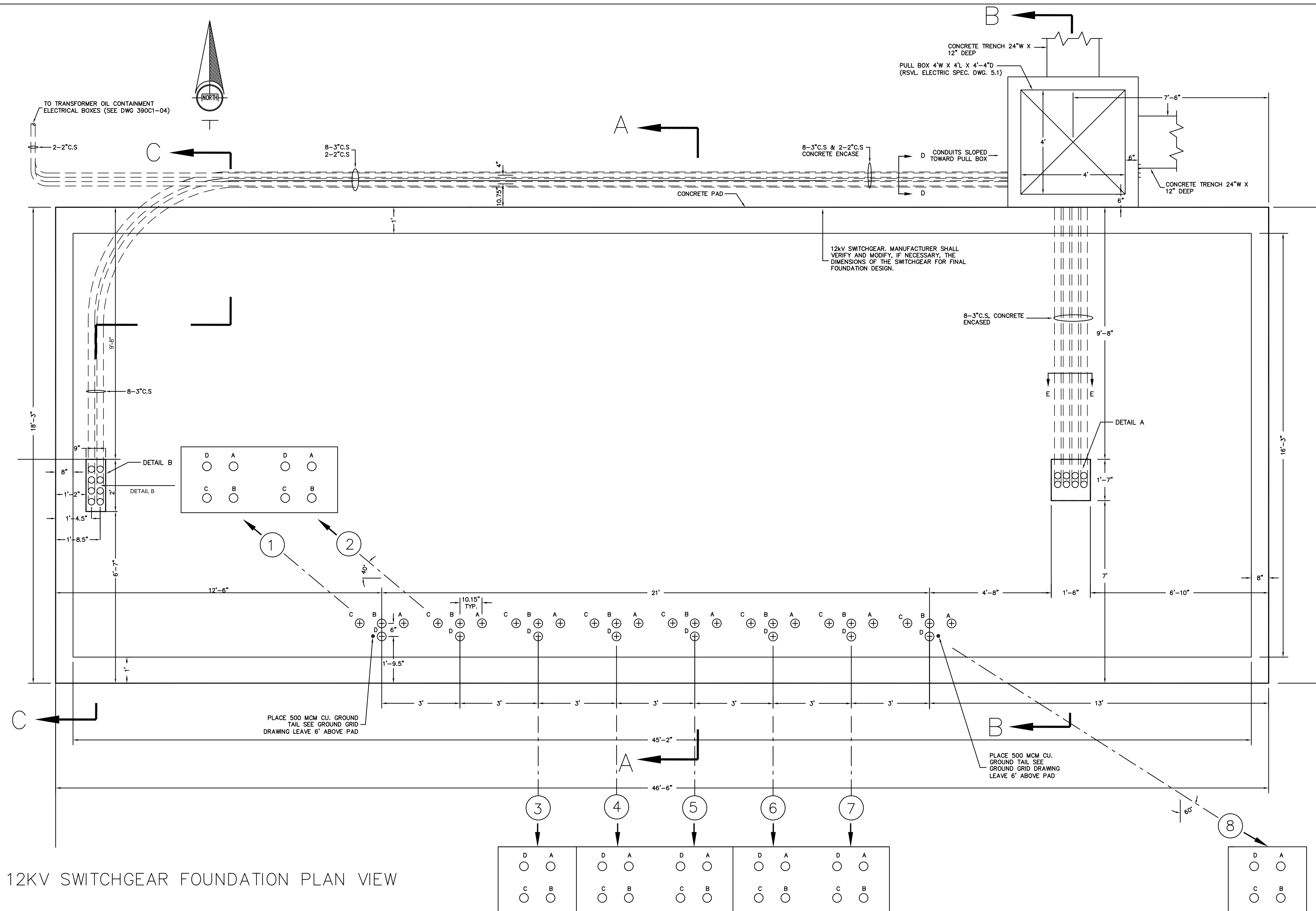
16.2.8 Storm drain inlet protection.

16.2.9 Biofilter bags.

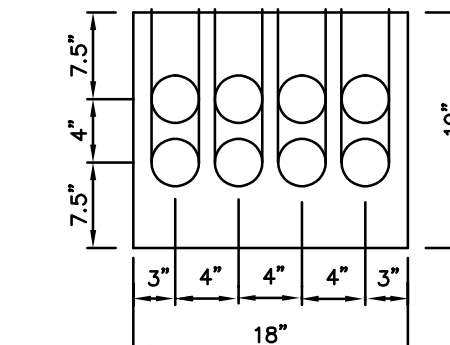
16.2.10 Wind erosion control by applying water suppressants.

16.2.11 Entrance/outlet tire wash or wash station for necessary equipment.

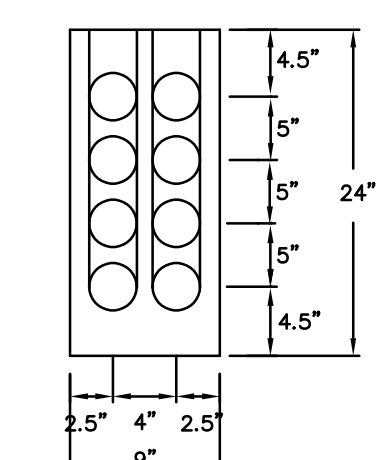
EXAMPLE SWGR FOUNDATION DRAWING
NOT FINAL DESIGN



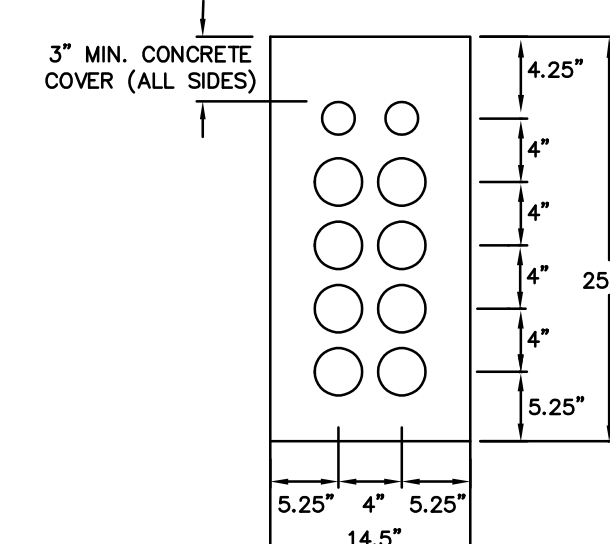
DETAIL A
(8-3" CONDUITS) N.T.S.



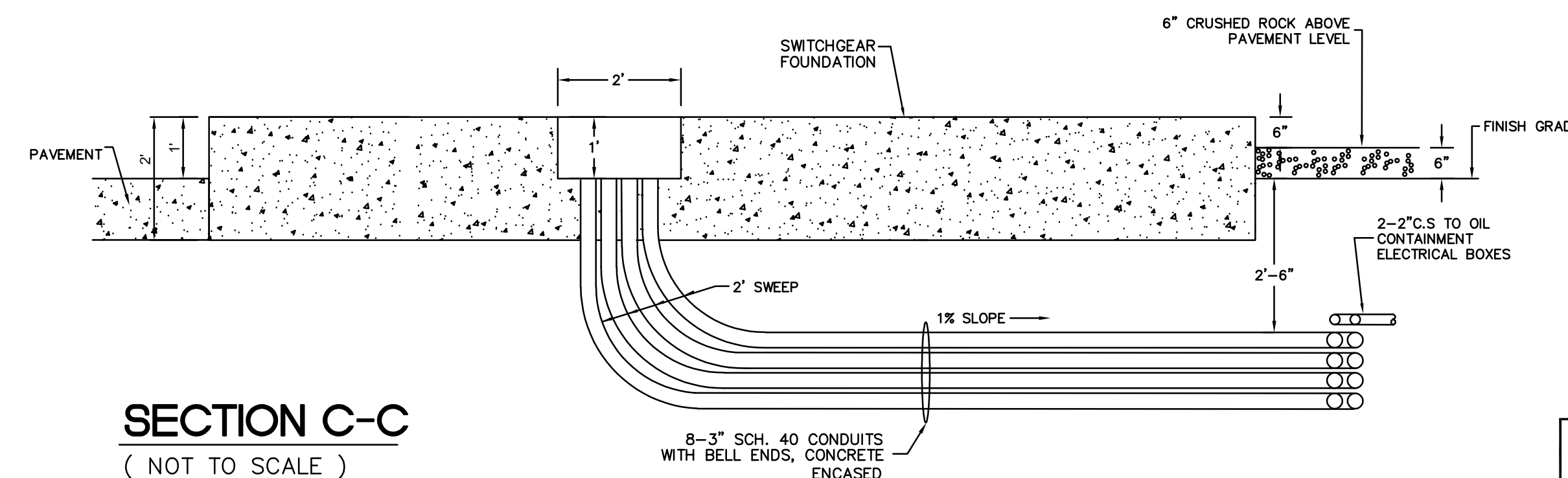
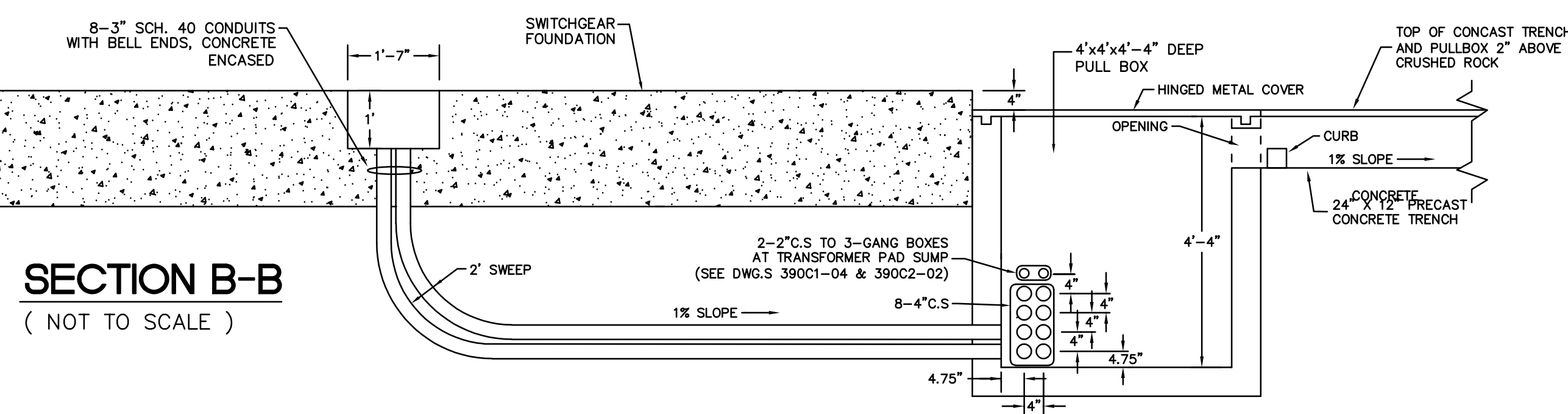
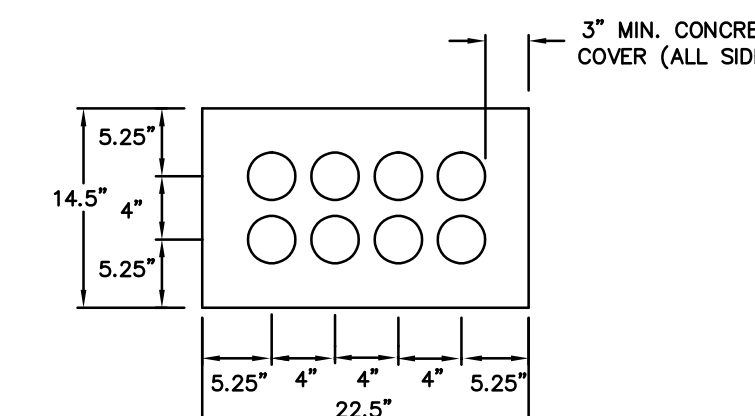
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(8-3" CONDUITS) N.T.S.

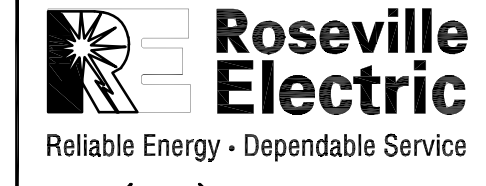


SECTION D-D
(8-3" & 2-2" CONDUITS) N.T.S.

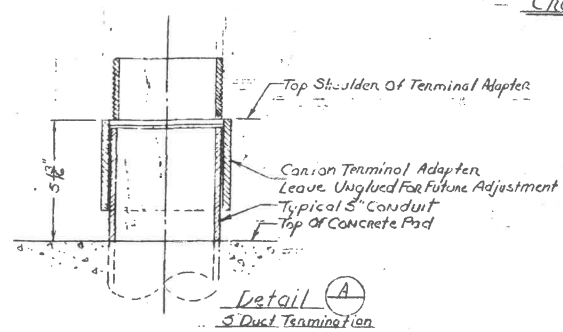
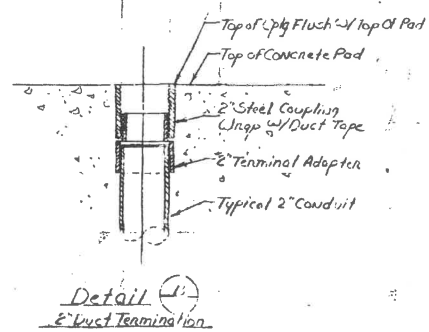
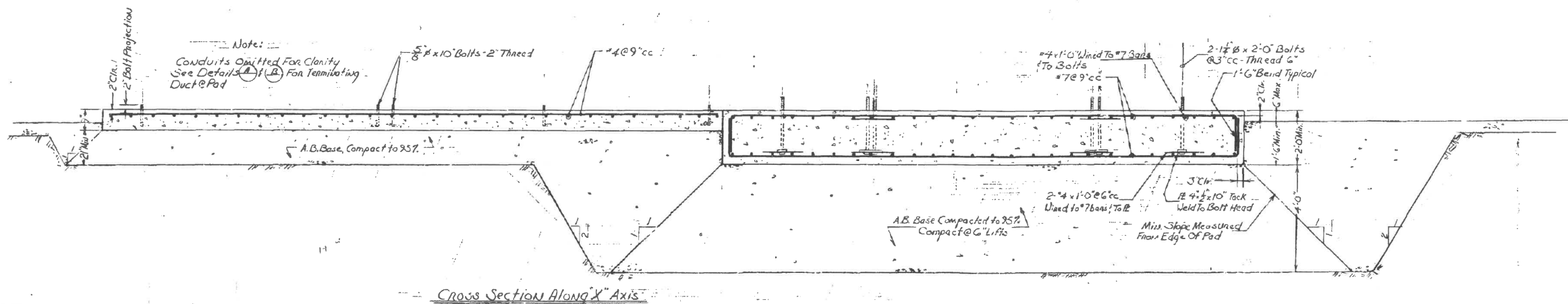
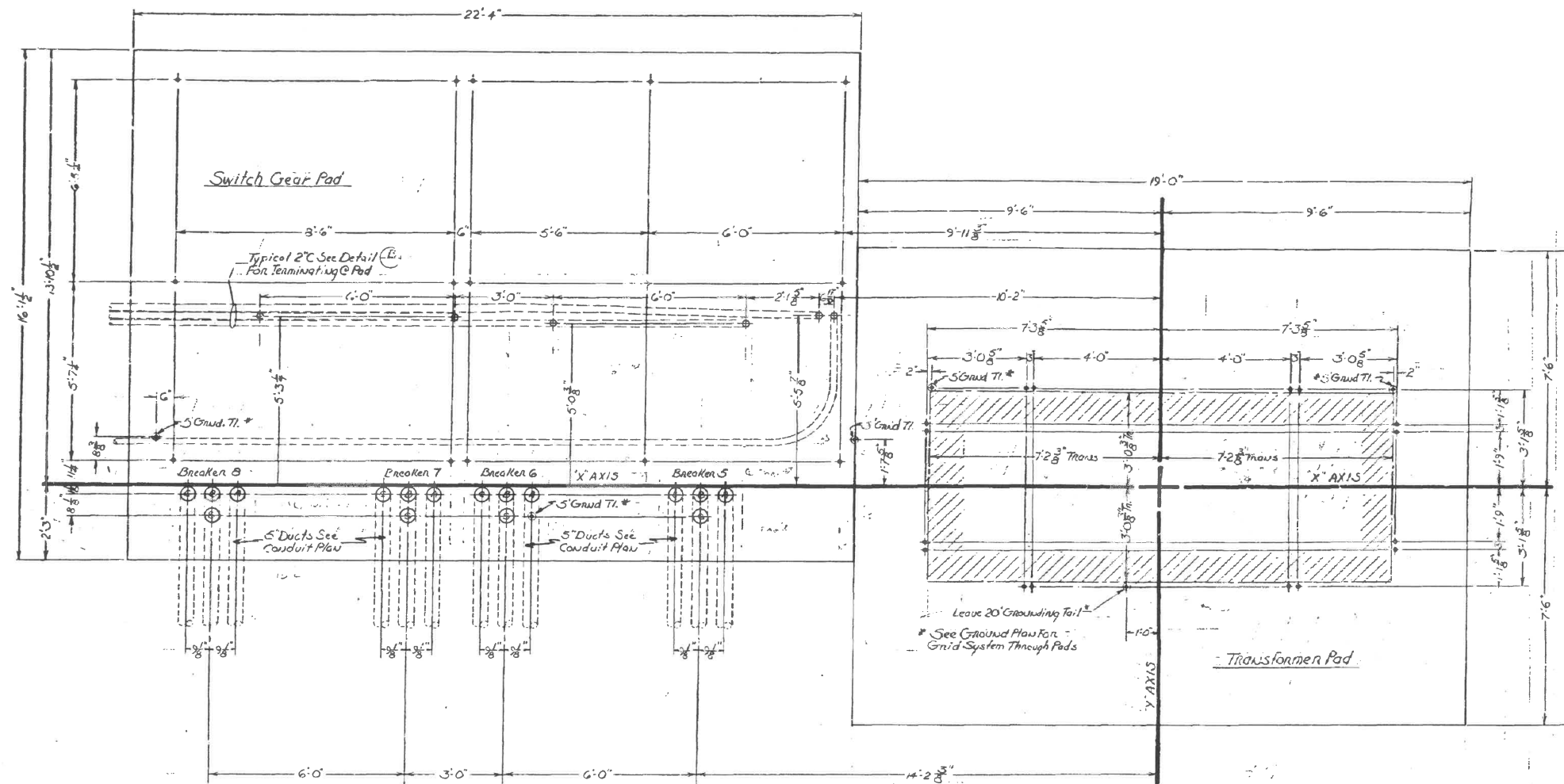


SECTION E-E
(8-3" CONDUITS) N.T.S.



 Roseville Electric Reliable Energy • Dependable Service (916) 774-5601	2 KDA 4/1/09 AS BUILTS	AFP
	1 KDA 3/8/06 REVISE CONDUIT OPENING	S.P.
FOUNDATION FOR 12KV SWITCHGEAR		JOB NO. 054001
TITLE		ACCOUNT NO. 40001-6130
ENG. S.Punzalan APPR. K. ANDREWS		DRAWING NO. 390C1-07
DATE 6/22/05		SCALE 1"=2'

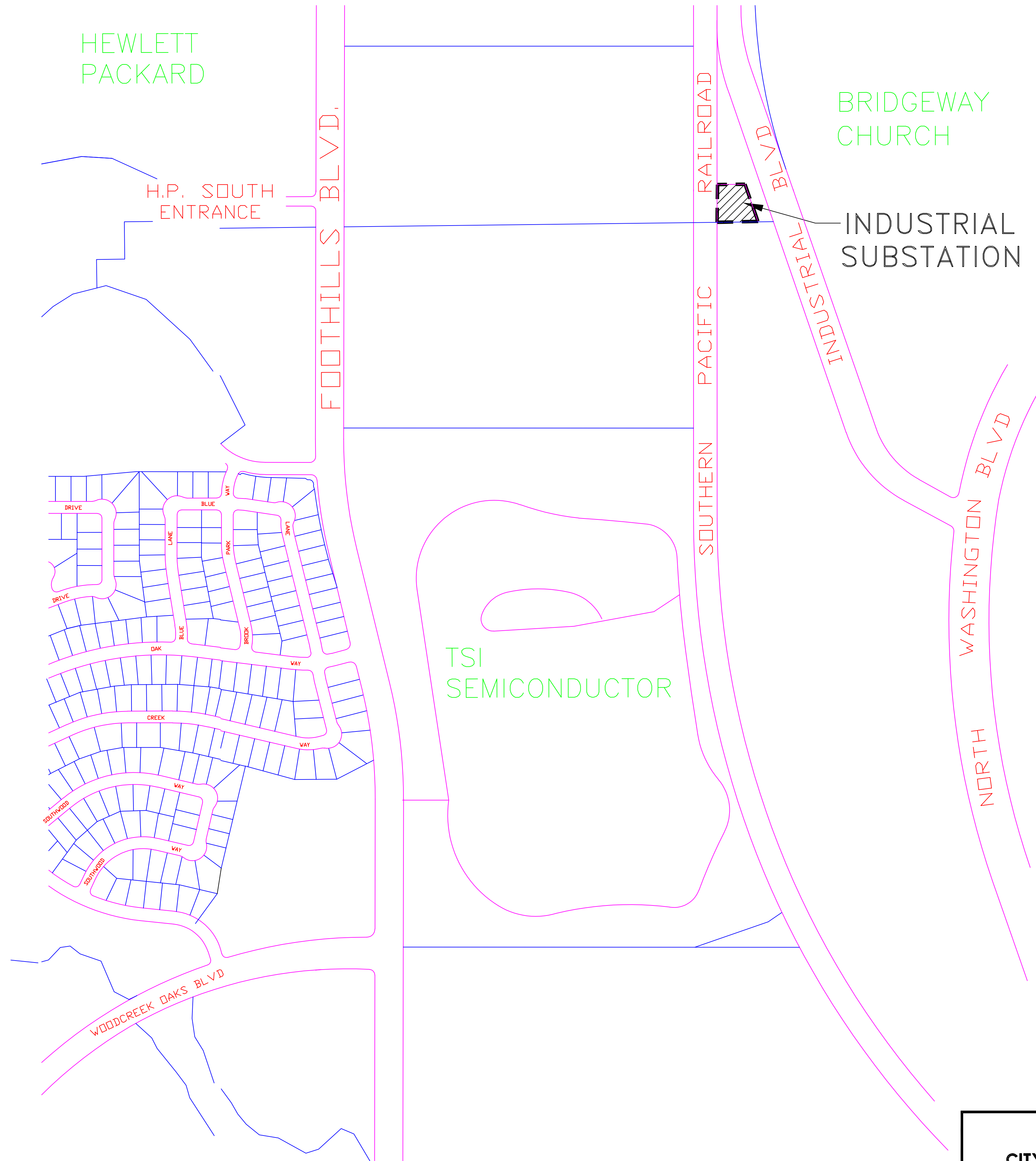
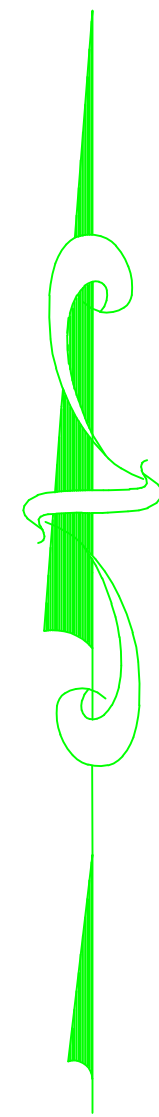
DATE	REVISION	RECORD	DR	CR
7-10-51	1	Ind. Sub 2: Pad Details	GP	



- NOTES**
- Concrete Strength $f'_c = 3000$ PSI @ 28 Days; 4" Max Slump
 - Reinforcing Bars ASTM A615 - Grade 40 Or 60
 - Bolts ASTM A307; Hot Dipped Galvanized; Size Nut Properly To Future F. After Galvanizing
 - Plots & ASTM A36
 - Placing Concrete:
 - Use Forms & Subgrade
 - Work Concrete Ground Reinforcing Into Corners
 - Finish - One Steel Trowling Followed By Soft Brooming
 - Curing - Cure Exposed Concrete IN An Approved Manner To Maintain Moisture For 14 Days.

TOLERANCES (EXCEPT AS NOTED)			
DECIMAL	1/16"	SCALE	1" = 1'-0"
FRACTIONAL	1/8"	DRAWN BY	GP
ANGULAR	1/4°	APPROVED BY	
DATE		DRAWING NUMBER	
7-10-51		315C1-09	

CCC1009A



1	VB	11/19	GENERAL UPDATES	APPR.
REV	BY	DATE	DESCRIPTION	APPR.
			JOB NO. 964002	
			ACCOUNT NO. 40001	
			DRAWING NO. 315C1-13	
TITLE		INDUSTRIAL SUBSTATION LOCATION PLAN		
ENG. M.Fok		APPR.	SCALE NONE	
DR. C.Mah			DATE 12-16-96	

CITY OF

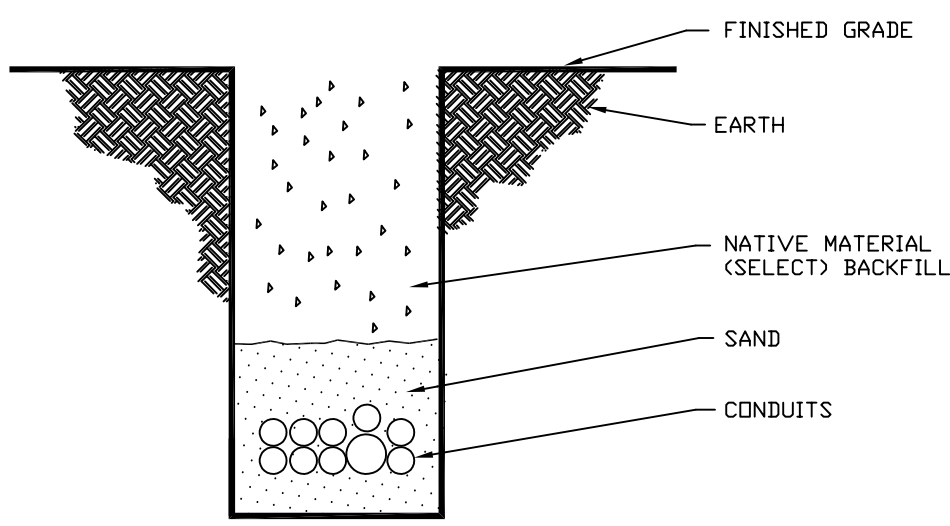
ROSEVILLE

CALIFORNIA



Roseville Electric

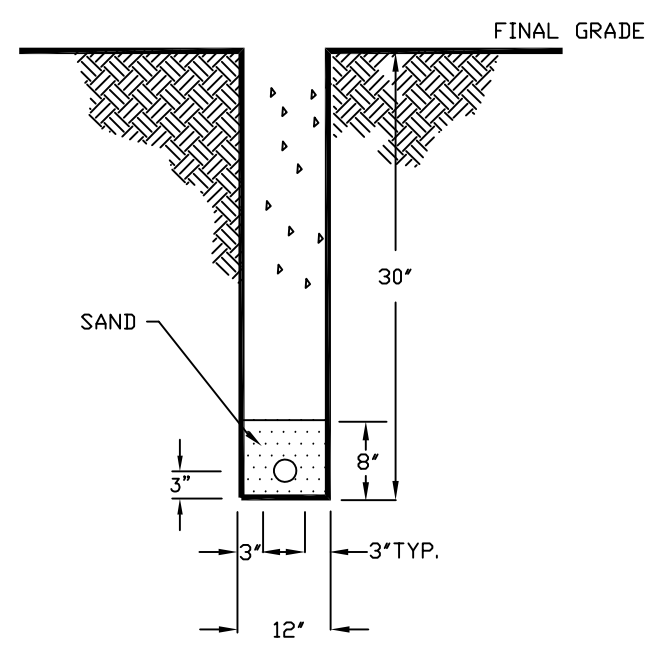
TYPICAL TRENCH DETAIL:



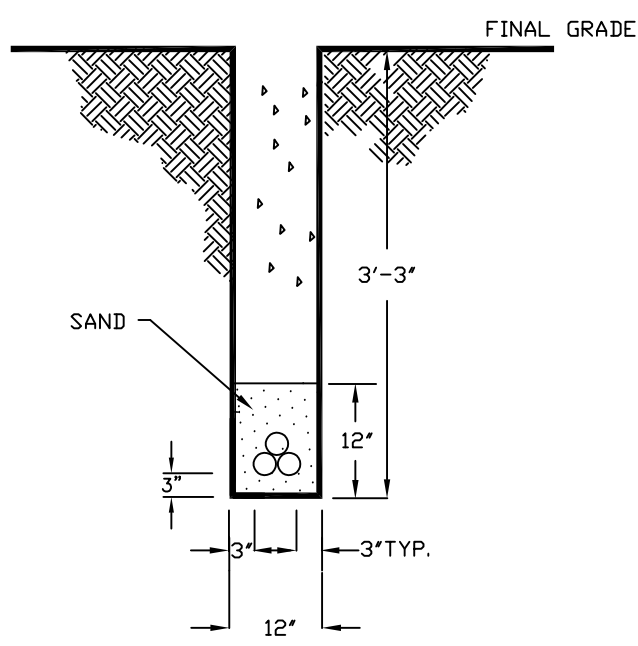
NOTES:

1. PROVIDE 3" CLEARANCE FROM SIDES AND BOTTOM OF TRENCH TO ANY CONDUIT.
2. PLACE 6" SAND COVER OVER CONDUITS, AND 3" SAND ON BOTTOM AND SIDES OF CONDUITS. 1" CONDUITS INPLACE TO 90% COMPACTION- NO MECHANICAL EQUIPMENT
3. LOCATIONS OF CONDUITS OUTLETS AT FOUNDATIONS TO BE VERIFIED BEFORE CONSTRUCTION

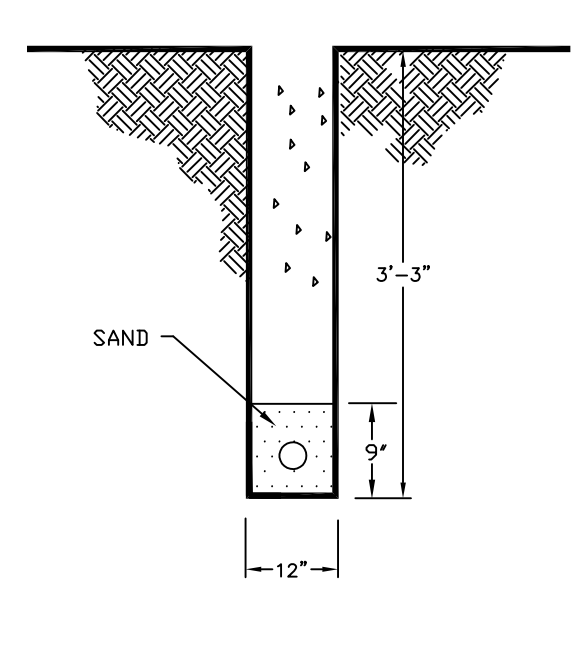
TYPICAL DETAIL T1 FOR 1-2"C.S.
(NOT TO SCALE)



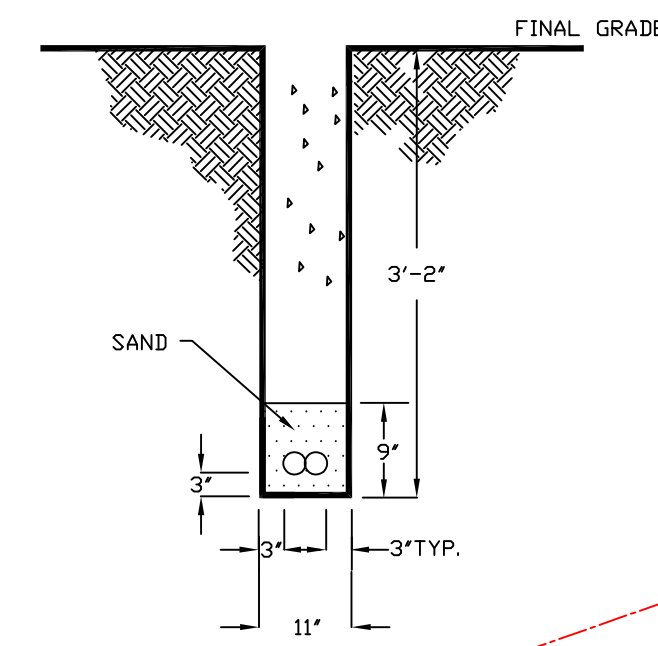
TYPICAL DETAIL T2
(NOT TO SCALE)



TYPICAL DETAIL T3
(NOT TO SCALE)



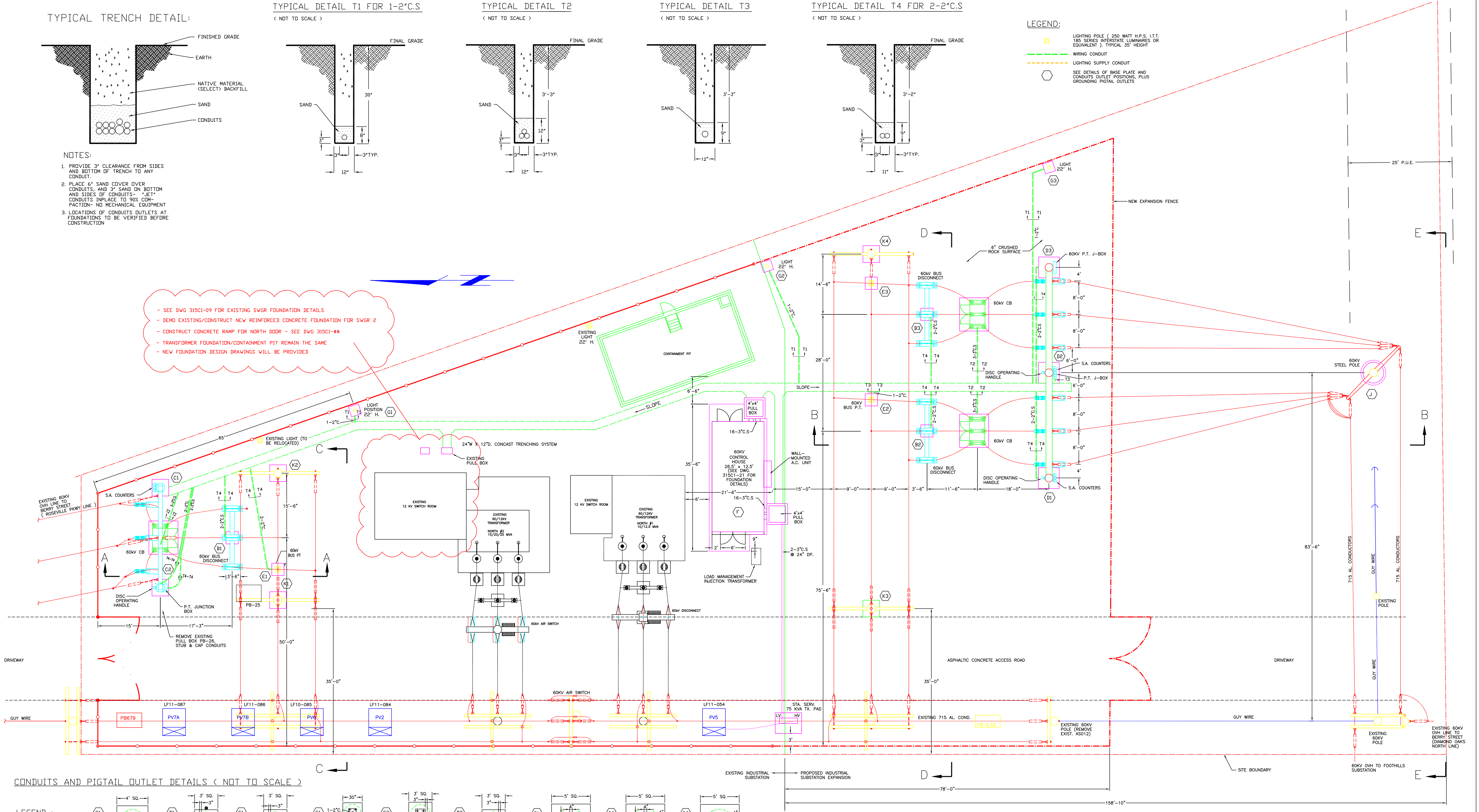
TYPICAL DETAIL T4 FOR 2-2"C.S.
(NOT TO SCALE)



LEGEND:

- LIGHTING POLE (250 WATT H.P.S. I.T.T. 185 SERIES INTERSTATE LUMINAIRES OR EQUIVALENT), TYPICAL 35' HEIGHT
- WIRING CONDUIT
- LIGHTING SUPPLY CONDUIT
- SEE DETAILS OF BASE PLATE AND CONDUITS OUTLET POSITIONS, PLUS GROUNDING PIGTAIL OUTLETS

- SEE DWG 315C1-09 FOR EXISTING SWGR FOUNDATION DETAILS
- DEMO EXISTING/CONSTRUCT NEW REINFORCED CONCRETE FOUNDATION FOR SWGR 2
- CONSTRUCT CONCRETE RAMP FOR NORTH DOOR - SEE DWG 315C1-111
- TRANSFORMER FOUNDATION/CONTAINMENT PIT REMAIN THE SAME
- NEW FOUNDATION DESIGN DRAWINGS WILL BE PROVIDED



CONDUITS AND PIGTAIL OUTLET DETAILS (NOT TO SCALE)

LEGEND :

- CONDUITS OUTLETS
 - GROUNDING PIGTAILS OUTLET
 - ◆ ANCHOR BOLT
- C1** 27" SQ. x 2" THICK 28.25" BOLT CIRCLE 38.25" REBAR CAGE
B1 15" SQ. 3/4" THICK 11" ANCHORS 30" REBAR CAGE
E1 15" SQ. 3/4" THICK 11" ANCHORS 30" REBAR CAGE
G1 1-2"C. 1" ANCHORS x 36" 11.5" BOLT CIRCLE 26" REBAR CAGE
E2 15" SQ. 3/4" THICK 11" ANCHORS 30" REBAR CAGE
B2 15" SQ. 3/4" THICK 11" ANCHORS 30" REBAR CAGE
D1 33" SQ. x 2 1/4" THICK 31.5" BOLT CIRCLE 48" REBAR CAGE
D2 33" SQ. x 2 1/4" THICK 31.5" BOLT CIRCLE 48" REBAR CAGE
D3 33" SQ. x 2 1/4" THICK 31.5" BOLT CIRCLE 48" REBAR CAGE
C2 27" SQ. x 2" THICK 28.25" BOLT CIRCLE 38.25" REBAR CAGE
G2 1-2"C. 1" ANCHORS x 36" 11.5" BOLT CIRCLE 26" REBAR CAGE
E3 15" SQ. 3/4" THICK 11" ANCHORS 30" REBAR CAGE
B3 15" SQ. 3/4" THICK 11" ANCHORS 30" REBAR CAGE
K1 24.5" SQ. x 1.5" THICK 25.25" ANCHORS BOLT CIRCLE 38.25" REBAR CAGE
K2 24.5" SQ. x 1.5" THICK 25.25" ANCHORS BOLT CIRCLE 38.25" REBAR CAGE
K3 24.5" SQ. x 1.5" THICK 25.25" ANCHORS BOLT CIRCLE 38.25" REBAR CAGE
K4 24.5" SQ. x 1.5" THICK 25.25" ANCHORS BOLT CIRCLE 38.25" REBAR CAGE

REFERENCE DRAWINGS:

REFER TO EXISTING SUBSTATION DRAWINGS 315C1-01 (SHEET 1 OF 5) AND 316-40 (SHEET 2 OF 5) FOR EXISTING UNDERGROUND CONDUITS

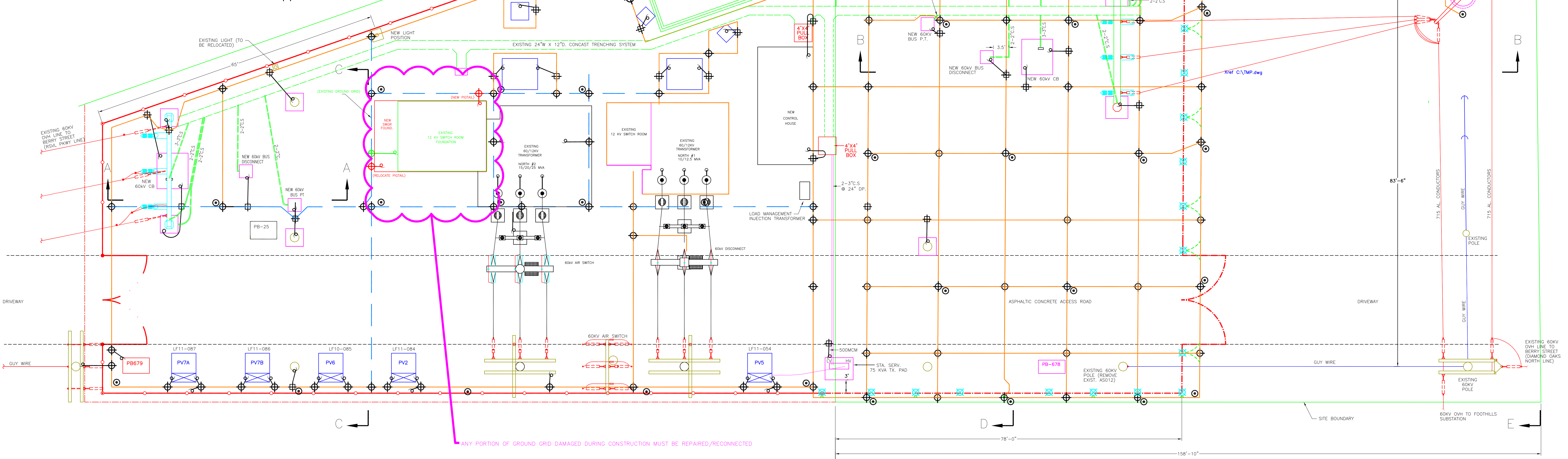
INDUSTRIAL SUBSTATION

5	KA	7/21/09	CORRECT PER MORTON & PITALO LOT SURVEY	7/15/04
4	KA	6/11/08	AS-BUILTS	3/2/
3	KA	3/9/00	AS-BUILTS	-
A	KA	2/2/98	REVISED FOR CONSTRUCTION	-
B	KA	4/30/98	FOUNDATION DETAILS "G", "F" & "K" REVISED	-
REV	BY	DATE	DESCRIPTION	APPR.

ENG.: M.FOK	APPR.: DATE: 12/30/96	SCALE: 1"=10'-0"	JOB NO. 974001
DR.: K.ANDREWS	DATE: 12/30/96	ACCOUNT NO. 40001-6130	DRAWING NO. 315C1-17

Roseville Electric
 Reliable Energy • Dependable Service
 (916) 774-5601

INDUSTRIAL SUBSTATION
 EXPANSION CONDUITS, TRENCHING
 AND SUBSTATION LIGHTING



TYPICAL PIGTAIL OUTLET DETAIL

EXISTING INDUSTRIAL
SUBSTATION
INSTALL GROUNDING PIG TAIL TO NEW
EQUIPMENT SHOWN

PROPOSED INDUSTRIAL
SUBSTATION EXPANSION
INSTALL NEW GROUNDING GRID AS SHOWN

INDUSTRIAL SUBSTATION



6	R	3/26/20	IND 2 SWITCHGEAR REPLACEMENT	1/8
5	R	10/02/13	EW-054 TRANSFORMER CB ADDITION	1/2
4	KA	7/21/09	CORRECT PER MORTON & PITALO LOT SURVEY	1/1.500
3	KA	6/11/08	AS-BUILTS	3/2
2	KA	3/9/00	AS-BUILTS	-
1	KA	2/2/98	REVISED FOR CONSTRUCTION	-
REV	BY	DATE	DESCRIPTION	APPR.
ENGS.: M.FOK		APPR.:	SCALE: 1"=10'-0"	JOB NO.
DR.: K.AREANDS			DATE: 12/30/96	974001
INDUSTRIAL SUBSTATION EXPANSION GROUNDING PLAN				ACCOUNT NO. 40001-6130 DRAWING NO. 315C1-22

 CONTROL CONDUIT
 URD CONDUIT(S)
 OVERHEAD CABLE/BUS

 EXISTING CONTOUR
 FINISH GRADE
 FENCE
 W.V. WATER VALVE

INDUSTRIAL AVENUE

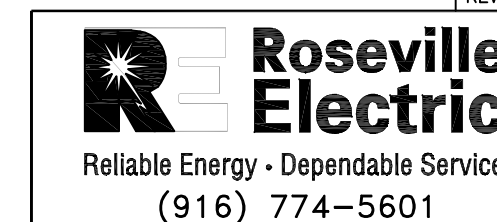
SPOIL
RULE

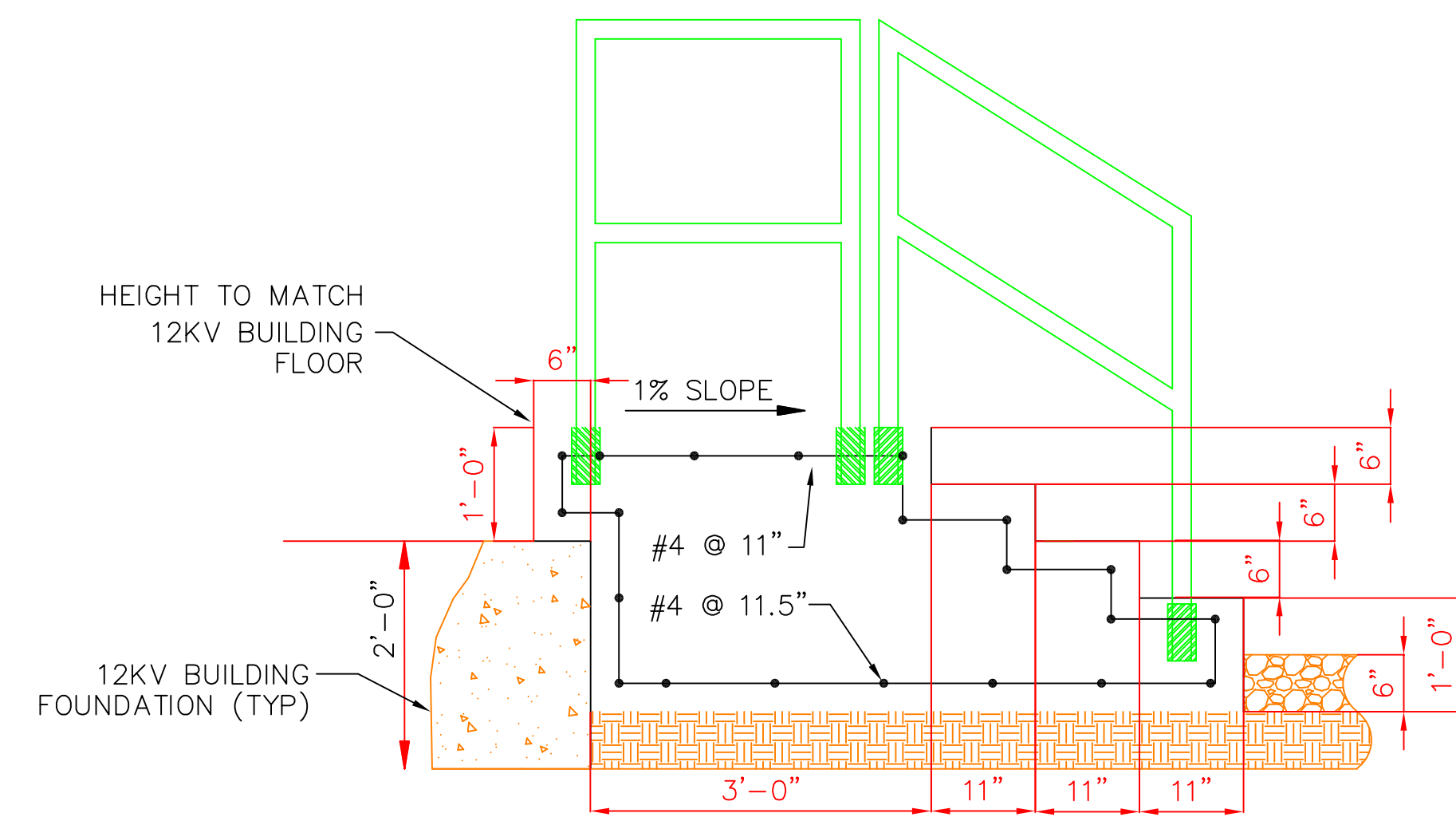
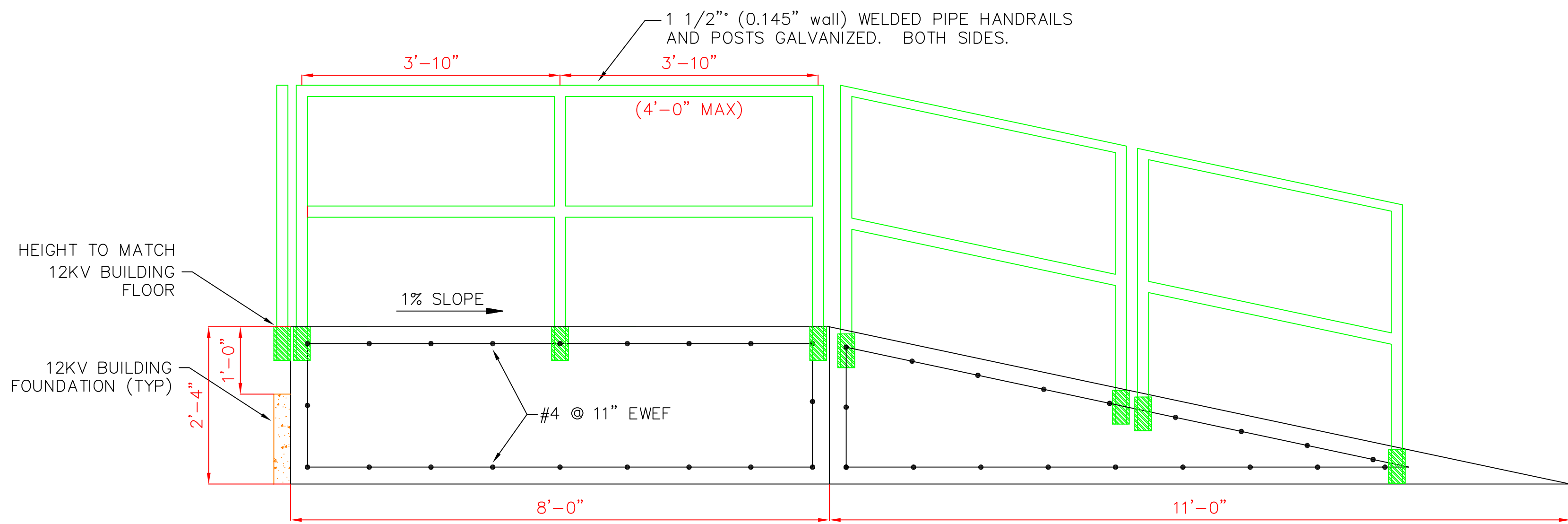
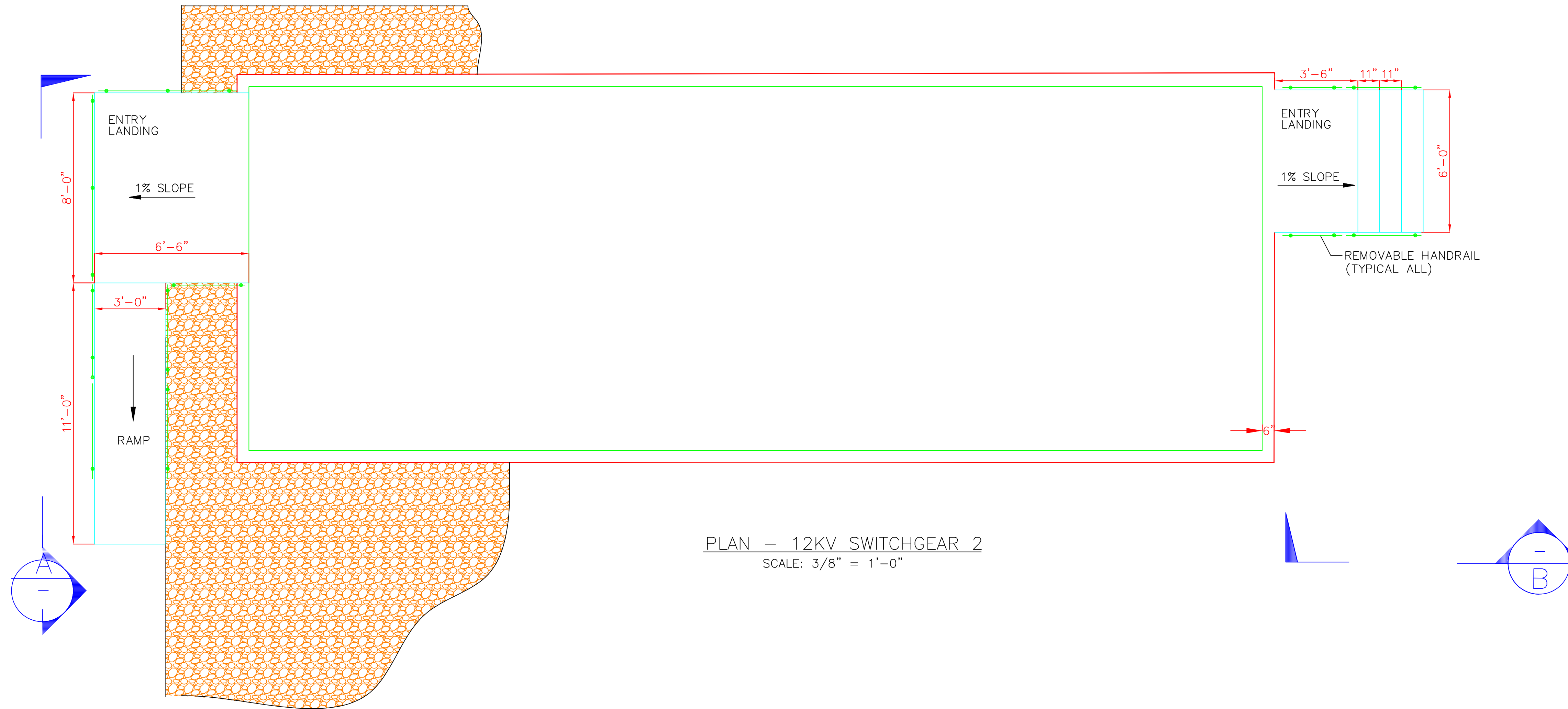
INDUSTRIAL SUBSTATION

FOR REFERENCE ONLY

REFER TO EXISTING SUBSTATION DRAWINGS
315C1-01 (SHEET 1 OF 5) AND
316-40 (SHEET 2 OF 5) FOR EXISTING
UNDERGROUND CONDUITS

315C1-28 MORTON & PITALO LOT SURVEY

[illegible]



- NOTES:
- 1) POST SLEEVES TO BE MOUNTED ON SIDE OF LANDINGS AND STAIRWAY.
 - 2) ALL RAILINGS SHALL BE REMOVABLE.
 - 3) CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTING.

SECTION B
SCALE: 3/4" = 1'

INDUSTRIAL SUBSTATION

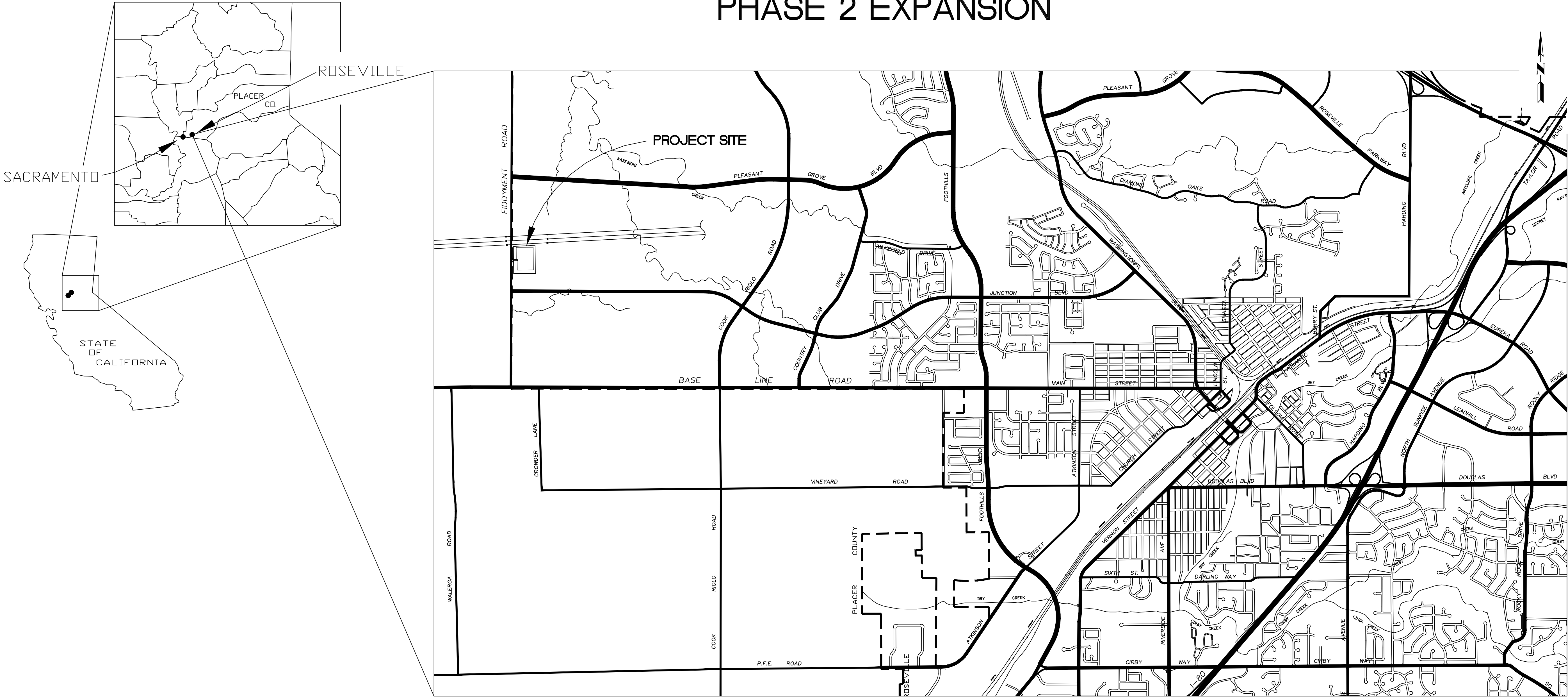


ELECTRIC
DEPARTMENT
(916) 774-5601

STAIR/RAMP
FOUNDATION DETAILS
TITLE
ENG. ML. APPR. SCALE AS SHOWN DATE 03/16/15
DR. RL.

JOB NO. 50049
ACCOUNT NO. 40001-6130
DRAWING NO. 315C1-34

CITY OF ROSEVILLE, 230-60KV FIDDYMENT SUBSTATION PROJECT
PHASE 2 EXPANSION





ELECTRIC
DEPARTMENT

(916) 774-5601

1	KB	1/16/04	PHASE 2 EXPANSION	MF
REV	BY	DATE	DESCRIPTION	TECH

VICINITY & SITE LOCATION PLAN
& DRAWING LIST

ENG. M. FOK
DR. J. HANSON

APPR.

DATE 2/5/98

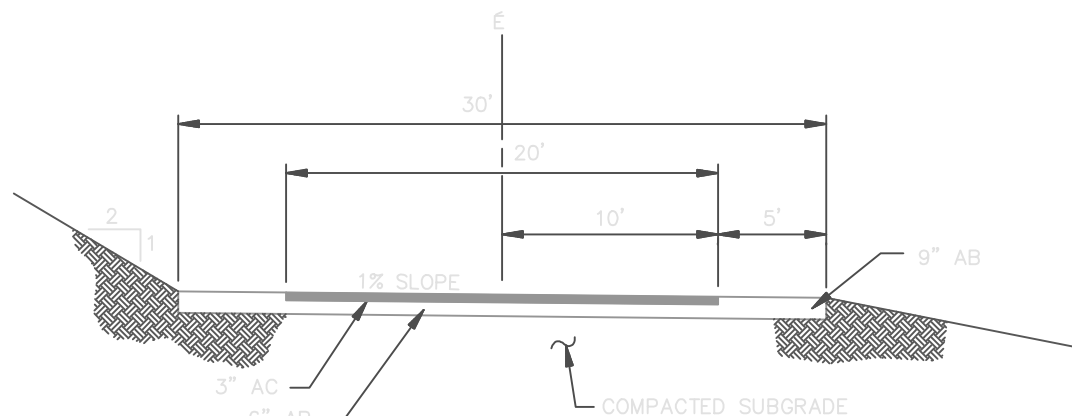
JOB NO. 944013

ACCOUNT NO. 40001

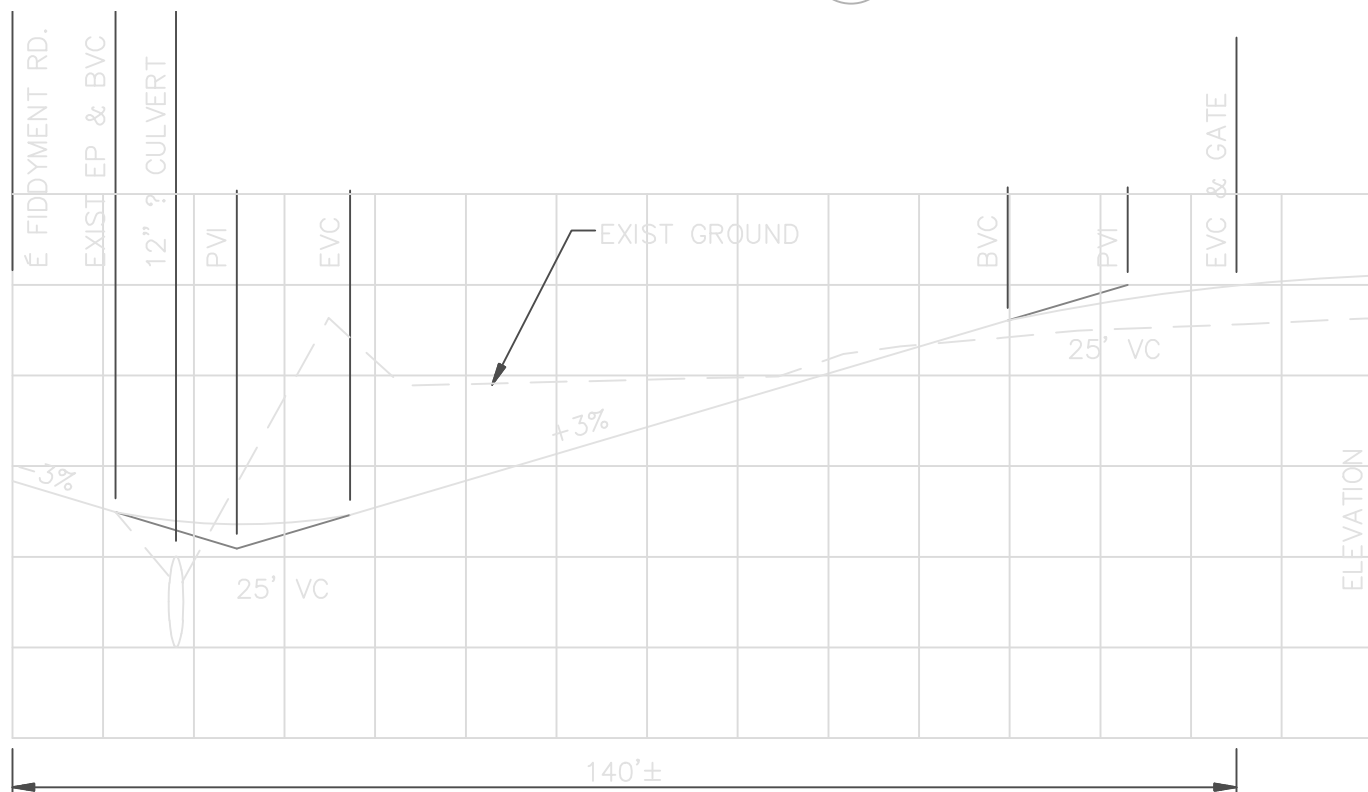
DRAWING NO. 325C1-01

LEGEND

- 125 --- EXISTING CONTOUR
- 126 --- FINISH GRADE CONTOUR
- PROPERTY LINE
- EASEMENT
- PROPOSED FENCE
- LIMIT OF VERNAL POOL
- FLOW LINE
- 127.3 --- FINISH GRADE ELEV.
- IF --- PIPE INVERT ELEVATION
- DRIVEWAY ROCK
- AC ACCESS ROAD SURFACING

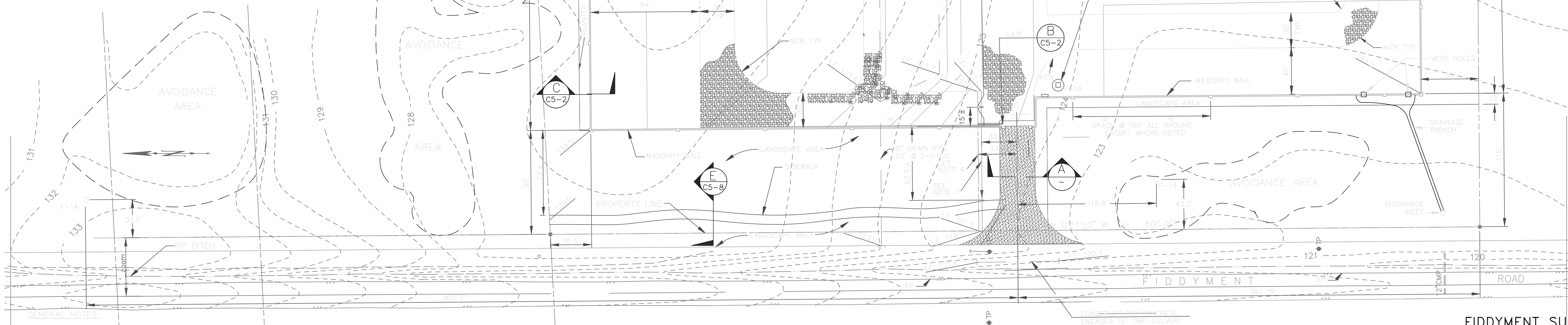


SECTION
NO SCALE



ENTRANCE ROAD PROFILE

SCALE
HORIZ.: 1"=20'
VERT.: 1"=2'



GENERAL NOTES:

1. PROVIDE 6" LAYER CRUSHED YARD ROCK SURFACING WITHIN THE MASONRY WALL LIMITS AND 4 FOOT WIDE STRIP ALONG THE OUTSIDE OF THE EAST WALL.
2. PROVIDE 6" LAYER DRIVEWAY ROCK SURFACING ON ACCESS DRIVEWAYS WHERE SHOWN.
3. ALL DRIVEWAY SURFACING SHALL BE COMPACTED.
4. CRUSHED ROCK YARD SURFACING SHALL NOT BE COMPACTED.
5. MEASUREMENTS TO MASONRY WALL ARE TO INSIDE OF WALL.
6. PLACE 120" x 1" POLYETHYLENE PIPE (AWWA C901) WATER SVC. W/ 36" MIN. COVER. CAP ENDS.
7. PLACE 120" x 4" VCP EXTRA STRENGTH SEWER SERVICE @ S=0.02. SEAL ENDS W/ REMOVABLE STOPPERS.

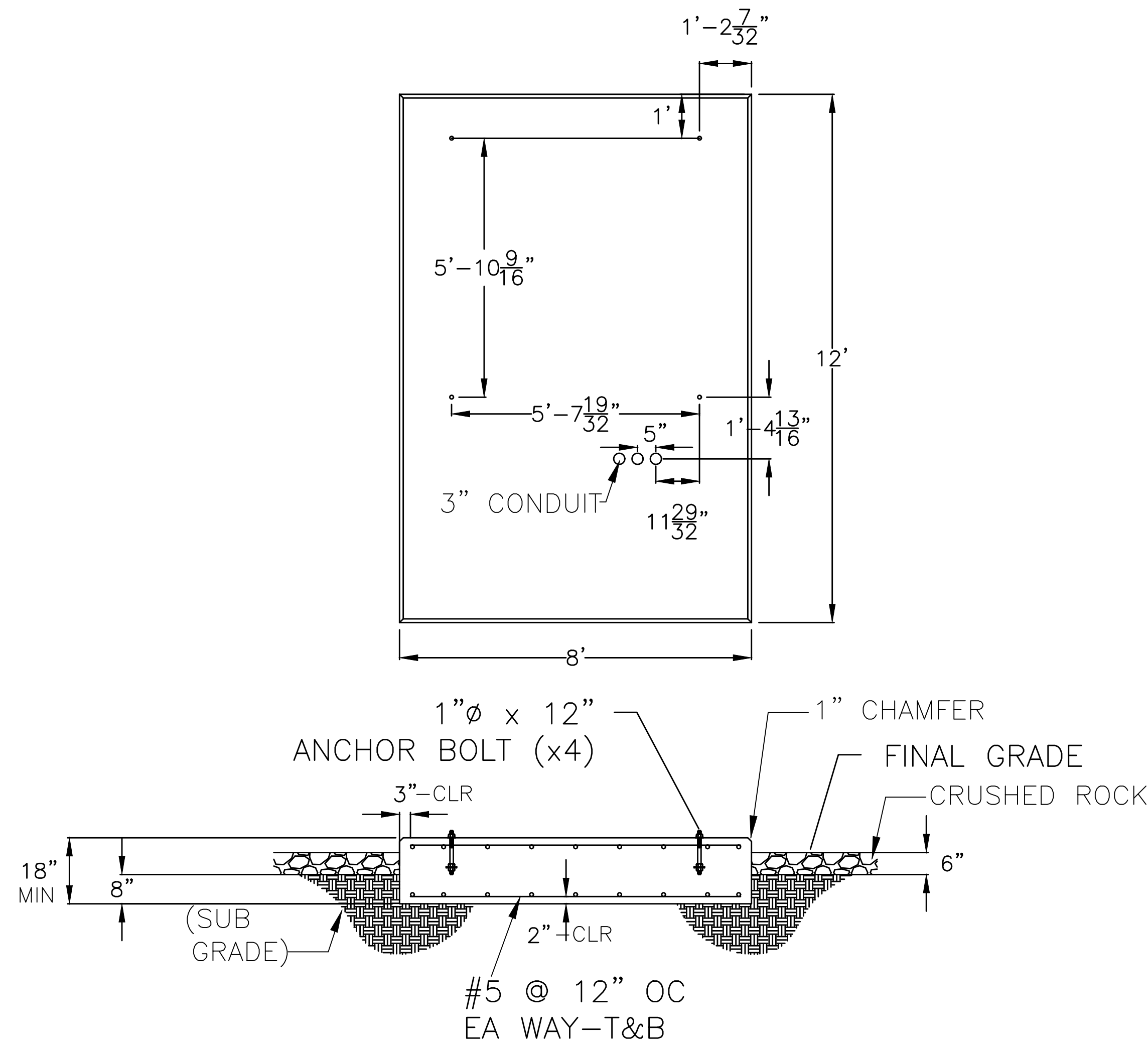
DESIGNED	GP	SCALE	1" = 40'
DRAWN	GT/PB	WARNING	1/2"
CHECKED	GP	BAR SCALE	1" OR DRAWING IS NOT TO SCALE
APPROVED			
CAD REF.	R: 2/2006, 4/4/2006, 4/6/05-01	LAST EDIT	7/7/06



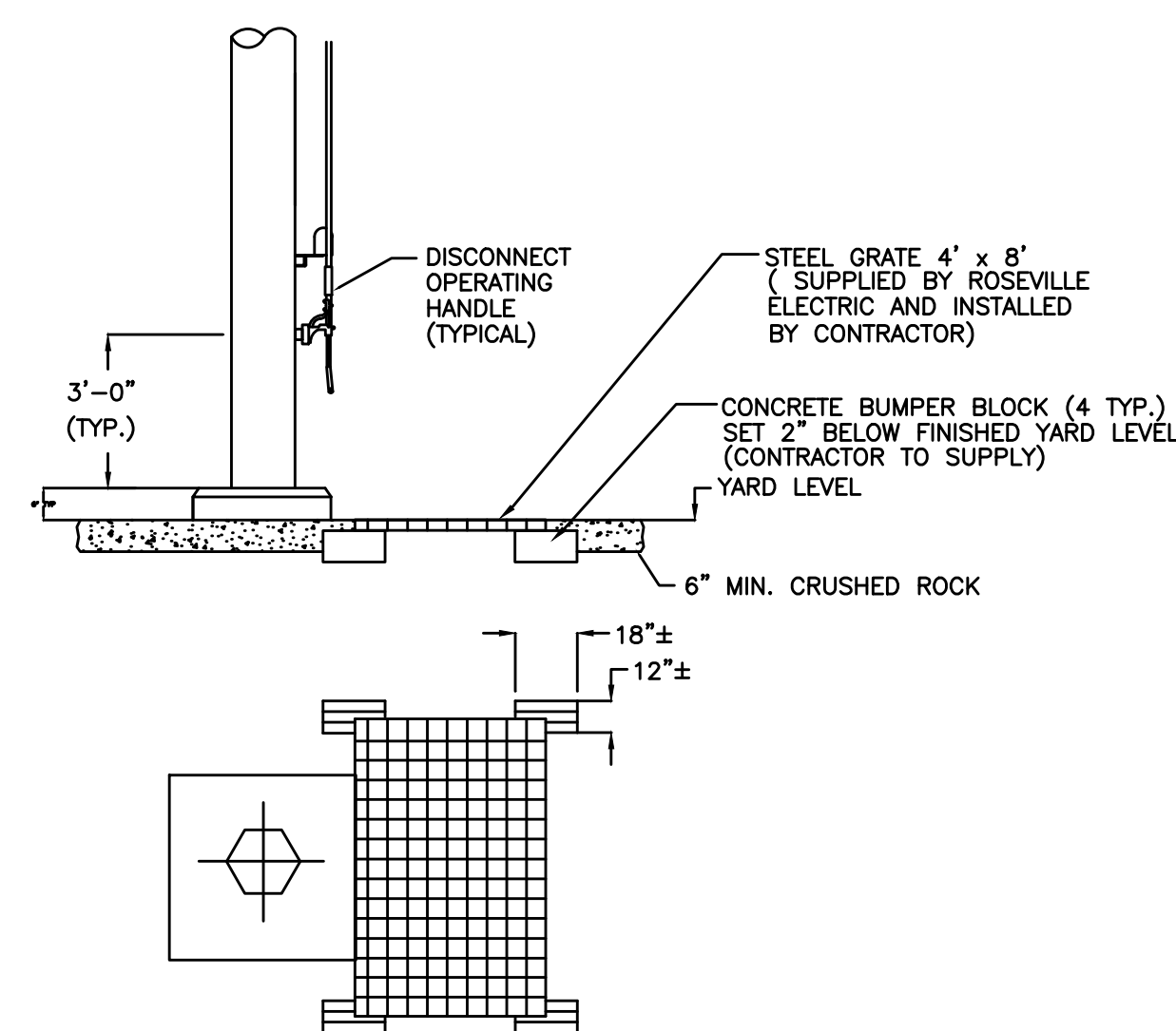
RMI
RESOURCE MANAGEMENT
INTERNATIONAL, INC.
3100 ZINFANDEL DR. SACRAMENTO, CA 95670
SACRAMENTO - PORTLAND - AUSTIN - PHOENIX - ORLANDO - COLUMBUS - ALBANY - WEST PALM BEACH



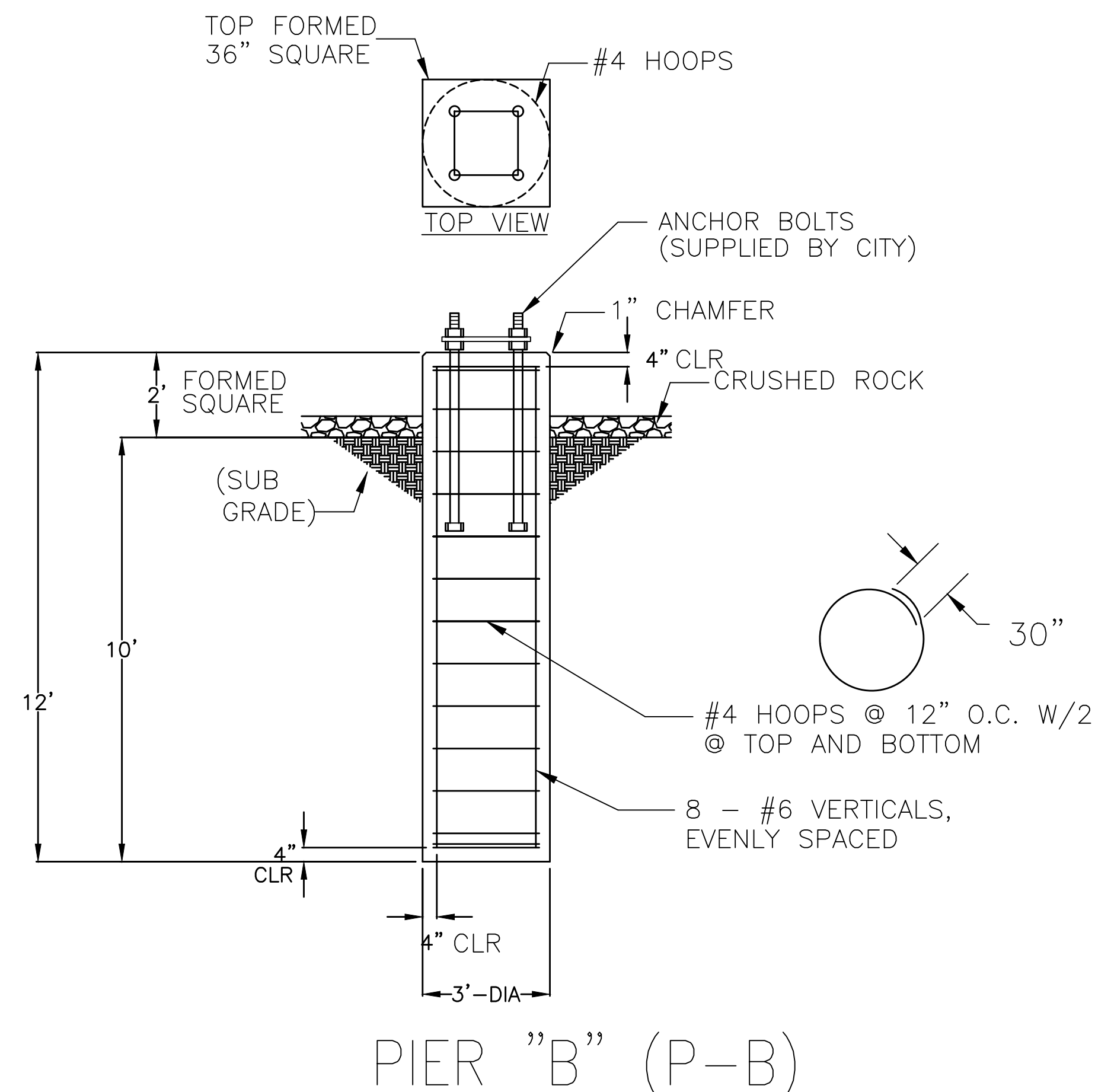
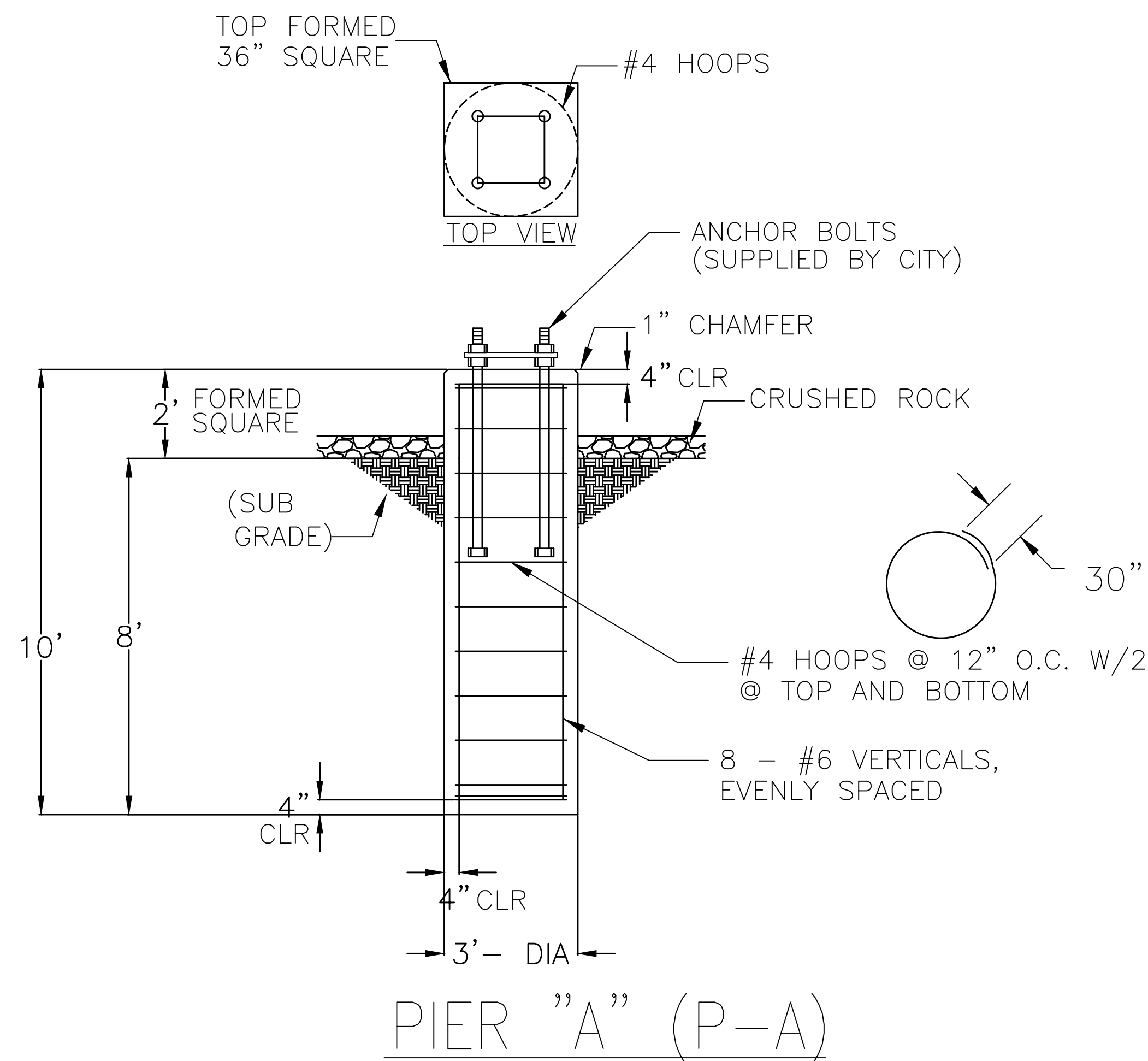
REV	BY	DATE	DESCRIPTION	APPR.
SITE AND GRADING PLAN				
TITLE				JOB NO. 944013
ENG. M. FOK				ACCOUNT NO. 40001
DR. J. HANSON				DRAWING NO. 325C1-03
SCALE 1"=40'				DATE 2/5/98



FOUNDATION "A" (F-A)



TYPICAL 60KV DISCONNECT SWITCH OPERATING PLATFORM DETAIL
NOT TO SCALE



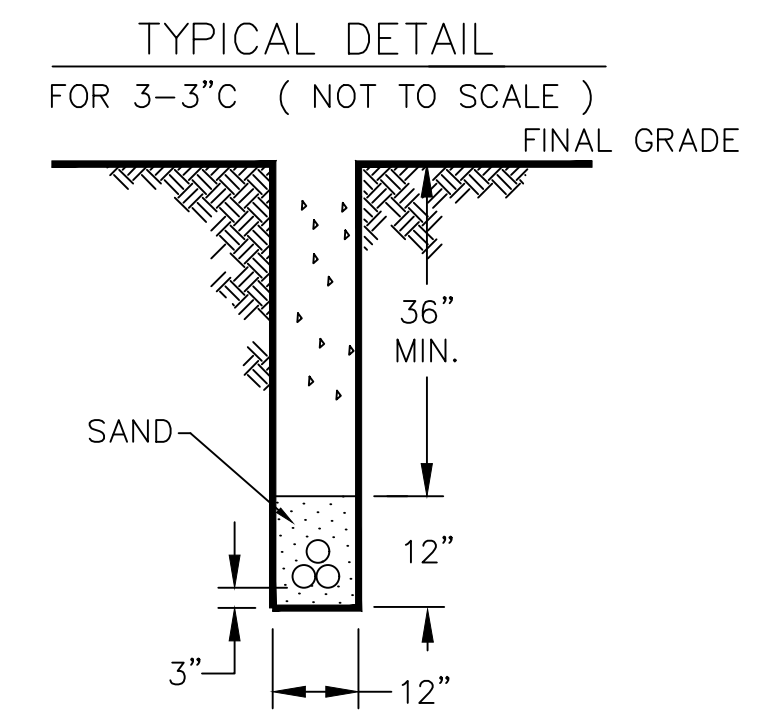
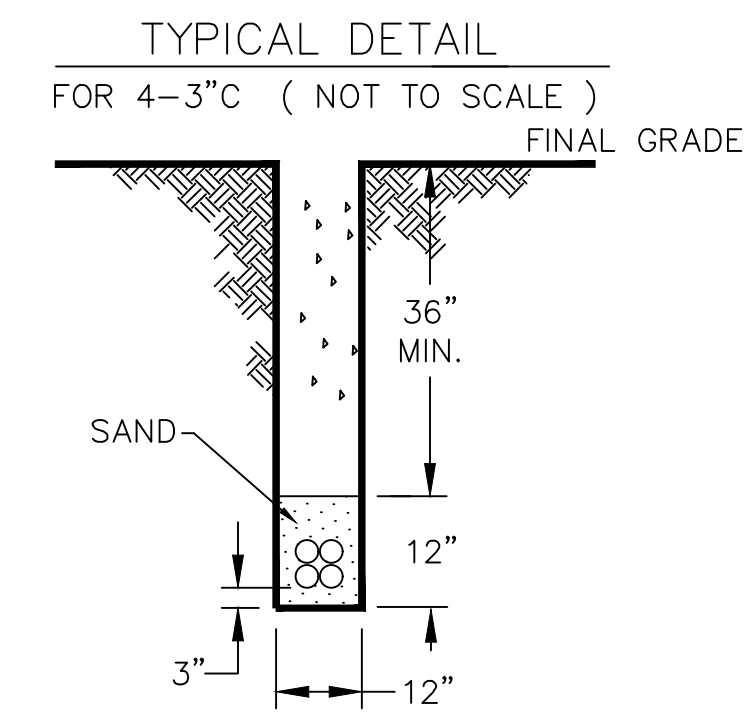
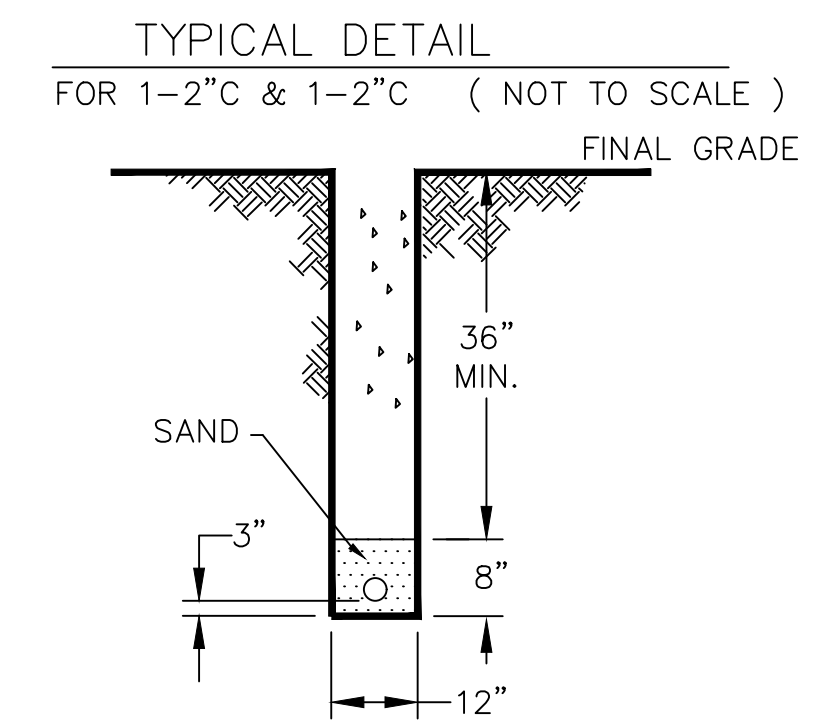
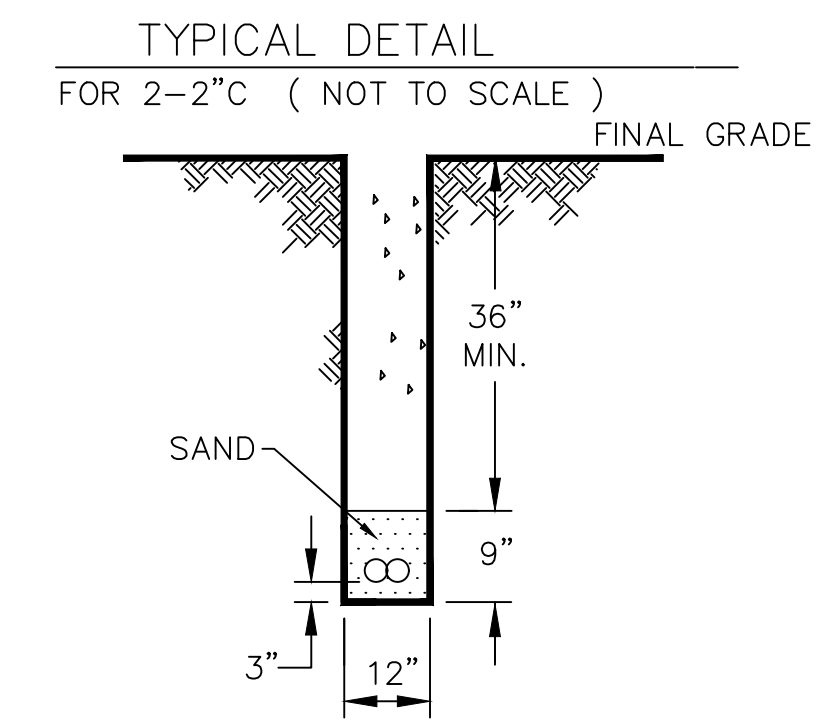
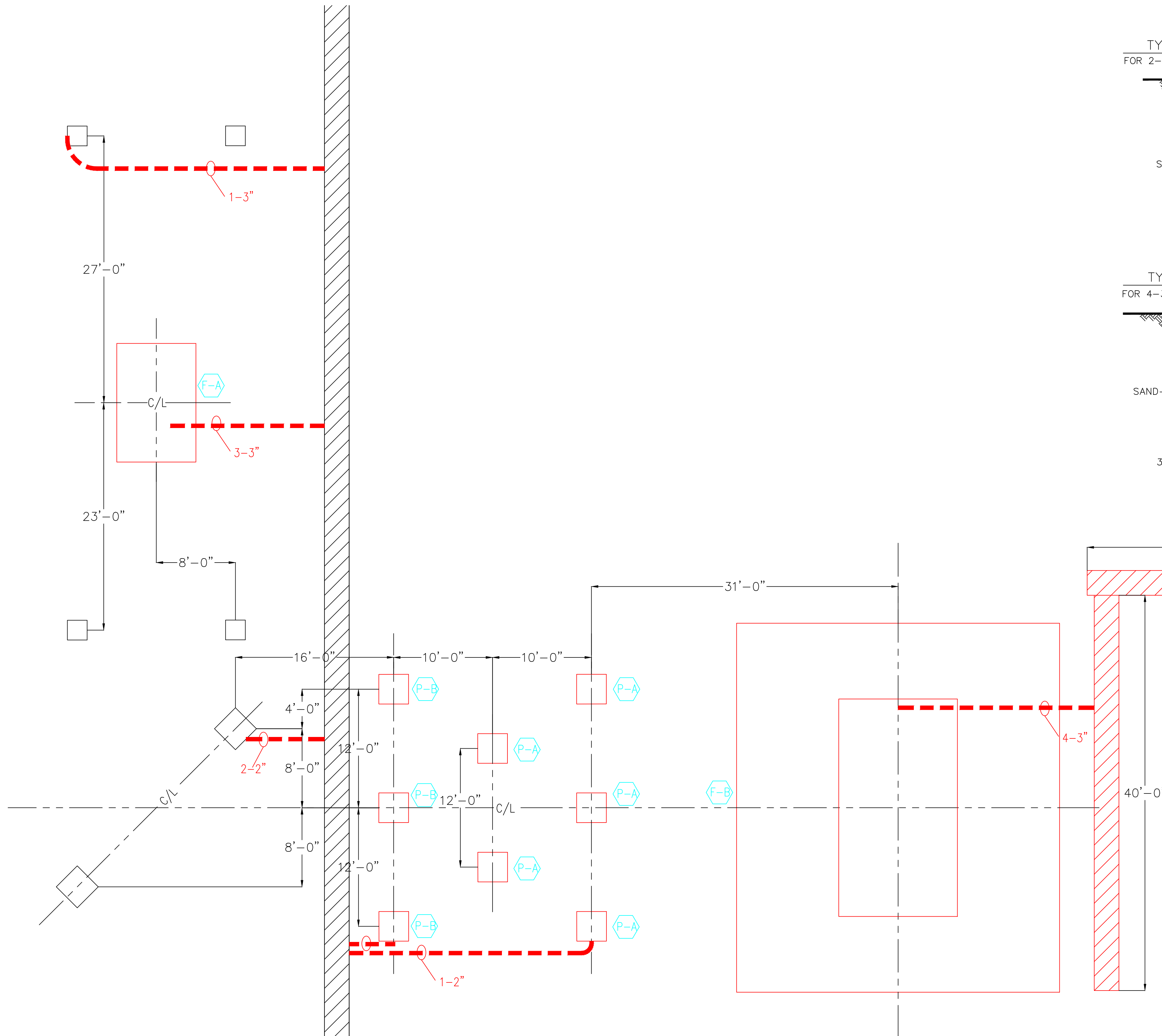
NOTES:

- ALL FOUNDATIONS SHALL BEAR ON FIRM UNDISTURBED NATURAL SOILS IN PLACE OR ON PROPERLY COMPACTED ENGINEERED FILL. FOR COMPACTION REQUIREMENTS, SEE SOILS REPORT.
- OVER-EXCAVATION BELOW OR ADJACENT TO BOTTOMS OF FOUNDATIONS SHALL BE TREATED BY:
 - EXTENDING FOUNDATIONS TO GREATER DEPTH.
 - PLACING ENGINEERED FILL TO PROPER ELEVATIONS.
 - BACKFILL WITH LEAN CONCRETE.
- EXCAVATIONS SHALL BE INSPECTED BY AND BE ACCEPTABLE TO THE CITY PRIOR TO PLACEMENT OF CONCRETE.
- ANY SUBSURFACE CONDITIONS NOT IN ACCORDANCE WITH THE ABOVE SHALL BE REPORTED IMMEDIATELY TO THE CITY FOR RESOLUTION PRIOR TO CONTINUING THE WORK.
- ALL VERTICAL SURFACES SHALL BE FORMED UNLESS SPECIFICALLY APPROVED BY THE CITY.
- PROVIDE 1" CHAMFER ON EXPOSED EDGES ON ALL SLAB TYPE FOUNDATIONS.
- ANY EXCAVATED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
- THE TOP SIX INCHES OF SUBGRADE SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
- UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SUB GRADE AND REPLACED WITH SUITABLE MATERIAL.

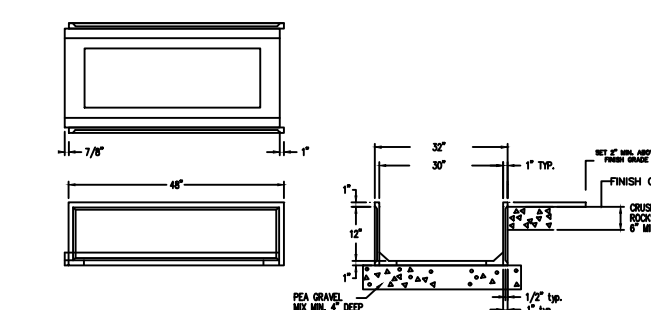
FIDDYMENT SUBSTATION

0	CP	3/23/20	EWRxxx - KY4A ADDITION	CP
REV	BY	DATE	DESCRIPTION	APPR.

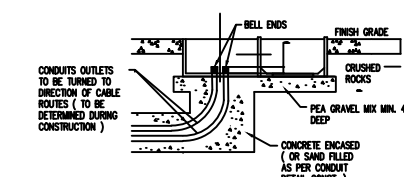
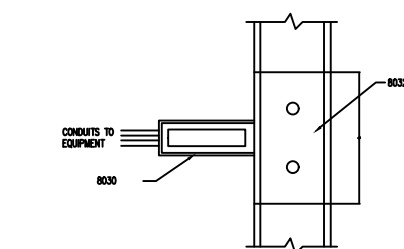
	ELECTRIC DEPARTMENT		PIER & FOUNDATION DETAILS		JOB NO. 500003
	(916) 774-5601		SCALE NTS		ACCOUNT NO.
	ENG. CJP	APPR.	DATE 3/23/20	DRAWING NO.	325C1-40
	DR. CJP				



BILL OF MATERIALS (TYPICAL)
8030 CHANNEL
8031 COVER
8032 CHANNEL UNIVERSAL
8033 END PLATE
8000 LIFTING TOOL



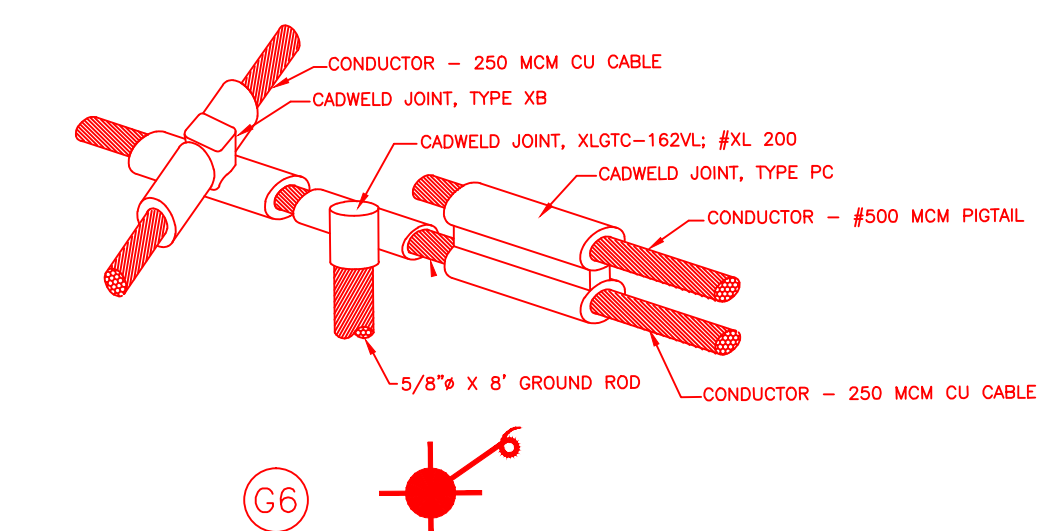
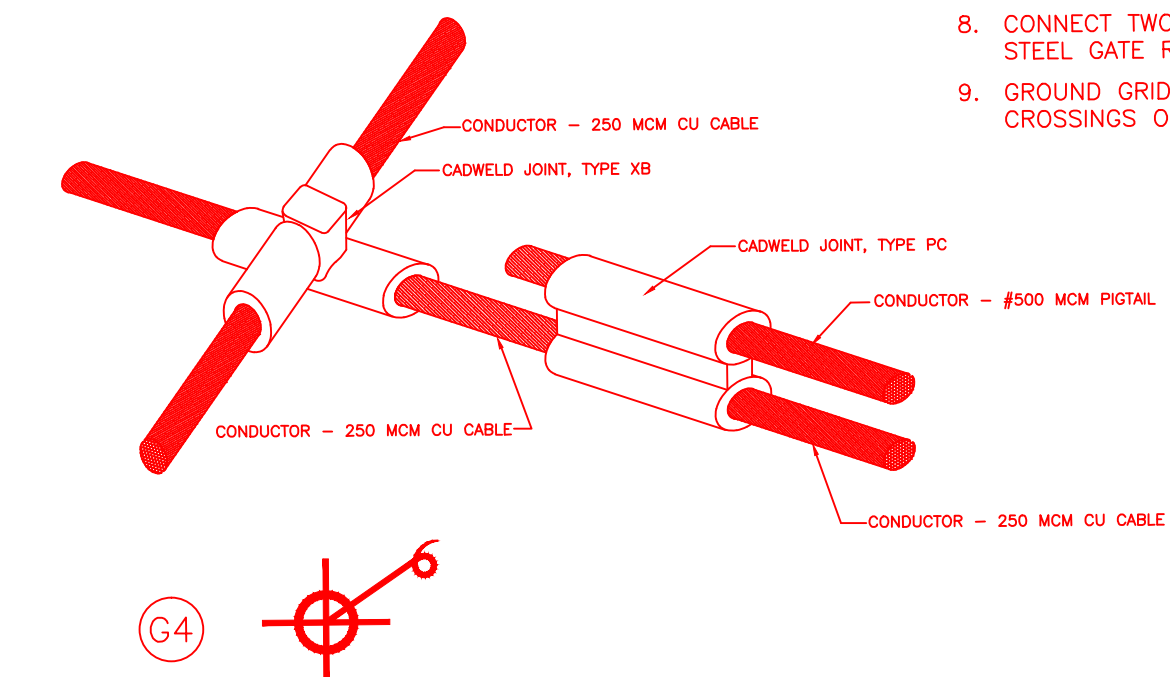
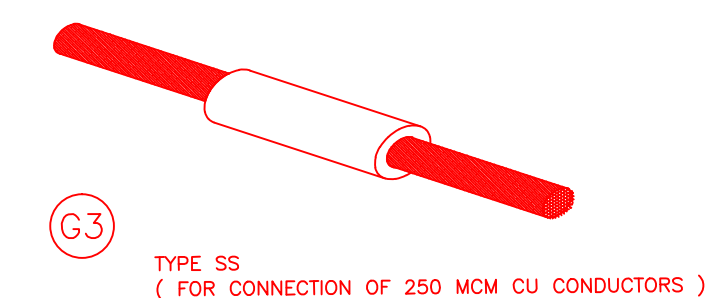
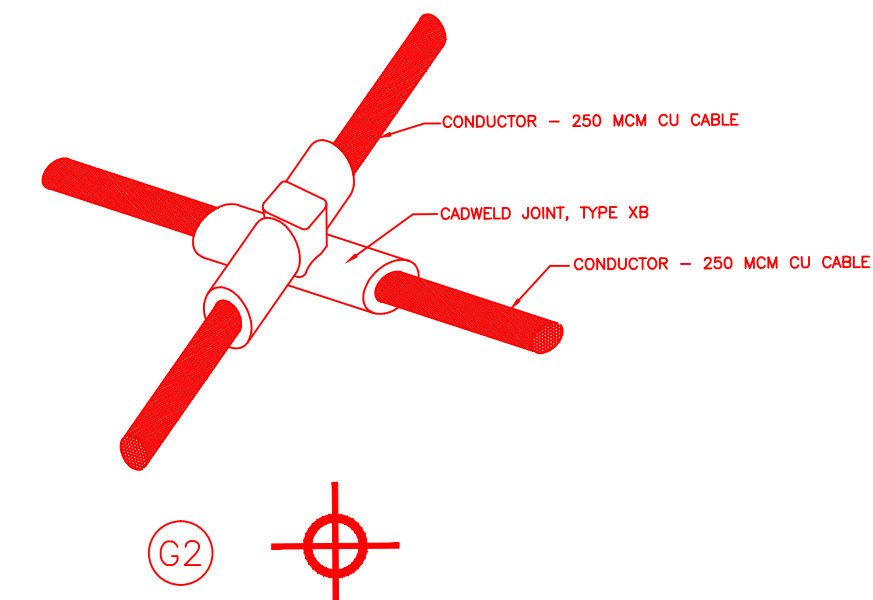
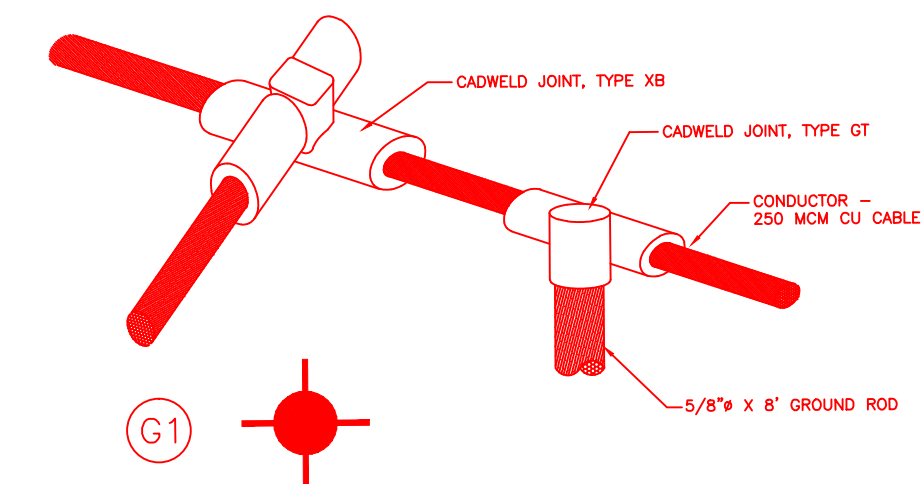
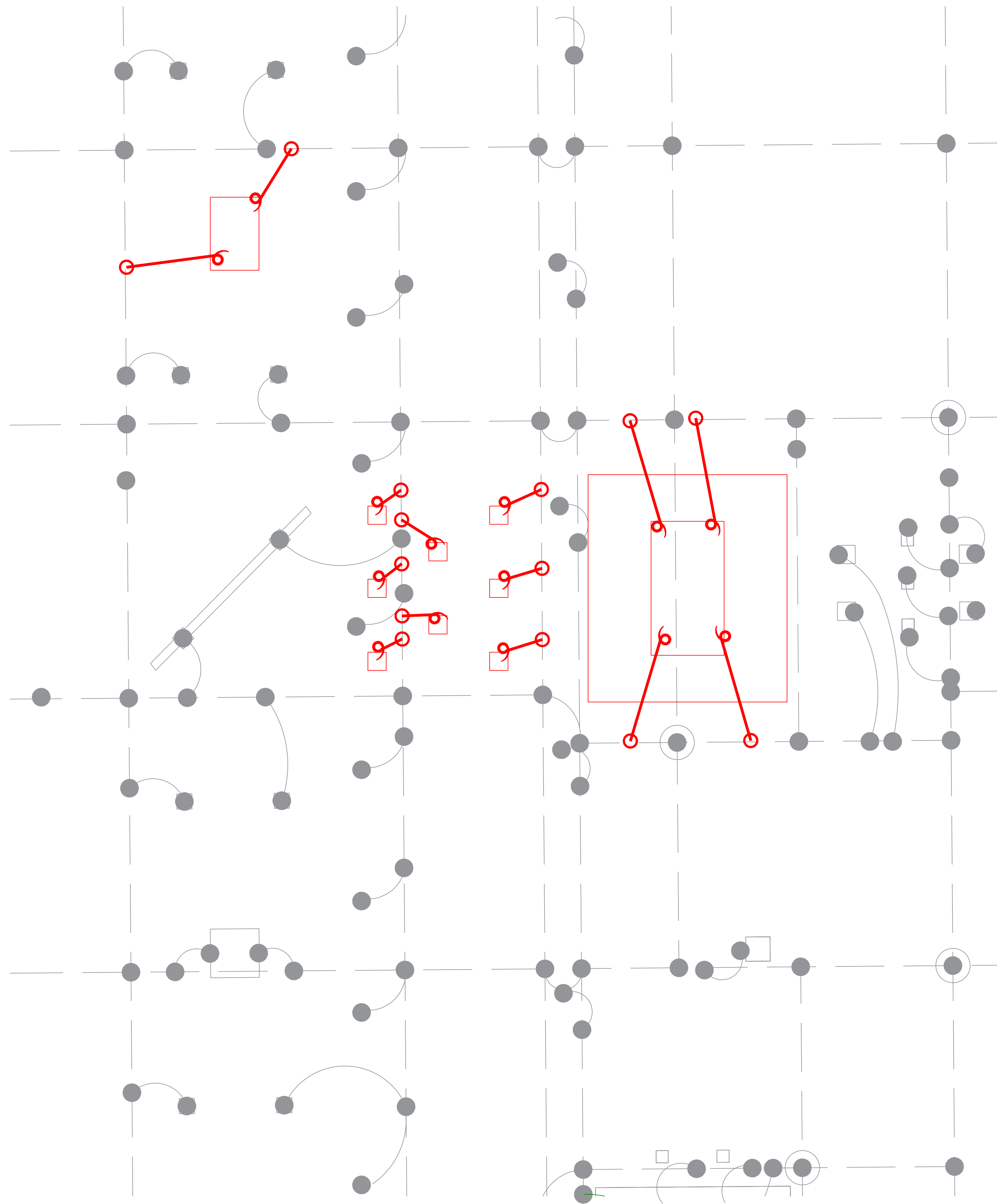
TYPICAL DETAILS OF CONCAST 8030
TRENCH SYSTEM
NOT TO SCALE



TYPICAL CONCAST TEE CONNECTION
(TRENCH COVERS NOT SHOWN) NOT TO SCALE

FIDDYMENT SUBSTATION

 Roseville Electric	FOUNDATION & CONDUIT PLAN			JOB NO. 500003
	TITLE			ACCOUNT NO.
	ENG. CJP	APPR.	SCALE NTS	DRAWING NO.
	DR. CJP	DATE 3/24/20		325C1-42

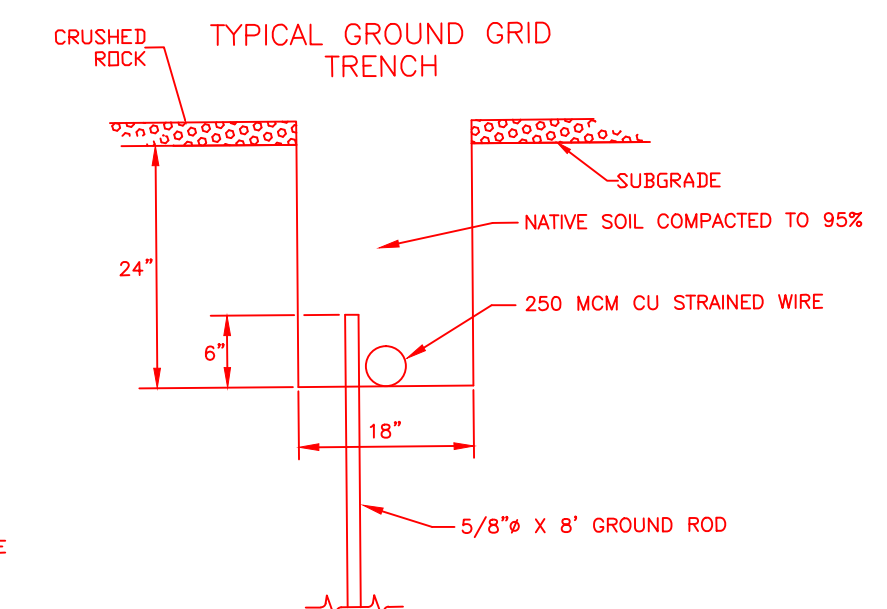


LEGEND

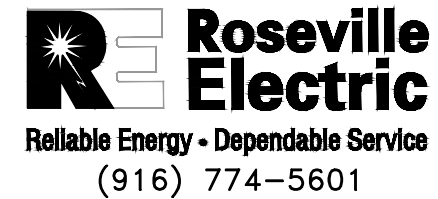
- GROUND GRID CONDUCTOR (250 MCM CU)
--- PIGTAIL (500 MCM CU.)

NOTES:

1. NO GROUND CABLE SHALL BE IN CONTACT WITH REBAR.
2. IF DRILLING IS NECESSARY FOR PLACEMENT OF GROUND RODS, MINIMUM DIAMETER OF THE HOLE SHALL BE 6". NATIVE SOIL BACKFILL SHALL BE DRIVEN INTO THE HOLE AND COMPACTED AT 95%.
3. GROUND GRID CONDUCTOR SHALL BE 250 MCM COPPER.
4. PIGTAIL CONDUCTOR SHALL BE 500 MCM COPPER, 7 FEET ABOVE GROUND AND PLACE NEAR THE FOUNDATIONS.
5. ALL GROUND GRID CONNECTIONS SHALL BE JOINED BY CADWELD.
6. THE CONTRACTOR SHALL SUPPLY ALL GROUNDING MATERIALS AND CADWELD MOLDS AND WELD MATERIALS.
7. REFER TO TRANSFORMER, STEEL STRUCTURES AND CONTROLHOUSE FOUNDATION DRAWINGS FOR THE LOCATION OF THE PIG TAILS. LEAVE 6 FEET ABOVE THE PAD.
8. CONNECT TWO #4/0 CU. WIRE PIGTAILS FROM GROUND GRID TO STEEL GATE RAIL & ROLLERS.
9. GROUND GRID SHALL BE INSTALLED BELOW CABLE TRENCH WHEN CROSSINGS OCCUR.



FIDDYMMENT SUBSTATION

 Roseville Electric Reliable Energy • Dependable Service (916) 774-5601	ENG.: CJP	APPR.:	SCALE: NTS	JOB NO.
	DR.: CJP		DATE: 3/25/20	500003
	GROUNDING PLAN			ACCOUNT NO.
				DRAWING NO. 325C1-43

**Geotechnical
Engineering
Report**



**PLEASANT GROVE
SUBSTATION
Roseville, California**

**WKA No.
2087.01**

**Prepared
May 20, 1992**

GEOTECHNICAL ENGINEERING REPORT PLEASANT GROVE SUBSTATION

Roseville, California

WKA No. 2087.01

May 20, 1992

INTRODUCTION

General

We have completed a geotechnical engineering investigation of the sites proposed for the Pleasant Grove Substation and the connection to existing power facilities located near the NEC electronics facility in Roseville, California. This investigation was conducted to evaluate the existing site, soil and ground water conditions, and to provide geotechnical engineering conclusions and recommendations for design and construction of the proposed substation and connection facility. This report presents the results of our work.

Scope

Geotechnical Engineering

Engineering Geology

Environmental Consulting

Remediation Services

Construction Inspection

Materials Testing

Our scope of work has included the drilling and sampling of two borings to a maximum depth of 20 feet below existing grade; one boring was located at the proposed substation; the second boring was located approximately 200 feet east of the substation site, near a proposed pole location. Relatively undisturbed soil samples obtained at various depths from the borings were taken to our laboratory and tested to determine soil engineering parameters. Soil resistivity tests were performed in the field; several soil samples also were laboratory tested to evaluate resistivity of the individual soil strata. The boring logs and field/laboratory test results then were analyzed to determine conclusions and recommendations regarding soil resistivity, site preparation, pole foundation design and exterior slab support for equipment.

Test boring locations are shown on Plates No. 1 and 2. Logs of the borings and results of laboratory tests are presented on Plates No. 3 and 4. An explanation of the symbols and classification system used on the logs appears on Plate No. 5. Appendix A contains information of a general nature regarding project concepts, exploratory methods used during the field investigation phase of our study and further laboratory test results. Appendix B contains Earthwork Specifications that may be used for the preparation of contract documents.

3050 Industrial Blvd.

West Sacramento

CA 95691

Fax 916.372.2565

916.372.1434

PLEASANT GROVE SUBSTATION

May 20, 1992

WKA No. 2087.01

Page 2

We know them (140K lbs)

Proposed Development

The City of Roseville Electric Department drawings indicate the subdivision will consist of several slabs-on-grade for support of switch gear, capacitor banks and similar equipment. Slab sizes will vary from 7' x 8' (capacitor banks) to 16-1/2' x 32-1/2' (switch gear); one slab (designated as "XFMR Pad") will be surrounded by an oil containment trench and wall. Equipment loads are unknown, but anticipated to range from moderate to heavy in magnitude. An L-shaped asphalt concrete access road will be constructed on the south and west sides of the substation.

Kam Hung with the City of Roseville Electrical Department indicated that four power poles are proposed, which likely will be 24-inch diameter steel poles. Two 40 foot poles in an H-frame arrangement will be located at the substation site. A single, intermediate pole (40 foot) will be located approximately 80 feet to the east. The fourth pole will be adjacent to the existing 60 Kv line located approximately 200 feet to the east; this pole will be approximately 54 feet in height.

Wood pole



FINDINGS

Site Description

The proposed substation site is an approximately rectangular area on the east side of the NEC electronic facility, which is located along Foothill Boulevard in northern Roseville, California. The site is bordered to the north by an existing trailer and asphalt concrete paved area, beyond which are chemical/manufacturing facilities for NEC; to the east by the railroad easement; and to the south and west by undeveloped land on the NEC campus. The relatively level site has been cut several feet with respect to the land to the west; the ground to the north is several feet lower in elevation. At the time of our field exploration, the surface of the substation site was relatively void of significant vegetation, except for trees along the westerly and southerly boundaries.

The site of the proposed pole which will facilitate connection of the substation with existing power facilities (located 200 feet east of the substation site) is along the north/south alignment of existing power facilities, just west of an existing utility access road. Vegetation in this area consisted of various volunteer grasses and weeds, with several trees in the vicinity.

Subsurface Soils Conditions

The soils conditions encountered at the two sites are variable. Our boring at the proposed substation site encountered medium dense slightly clayey silty fine sands from the surface to a depth of approximately nine feet. Between 9 and 11 feet we observed very stiff sandy clays, underlain by a two foot layer of very stiff silt. The silts are underlain by medium dense slightly clayey medium sands to a depth of approximately 19 feet below existing grade; between 19 and 20 feet (maximum depth of the boring) we encountered dense silty sands.



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Subsurface conditions revealed by our boring drilled near the existing power line consist of dense silty sands within the upper four feet, underlain by very dense very slightly clayey to clayey fine to coarse sands to the maximum 20 foot depth of exploration; occasional fine gravels were encountered within the coarse sand layer, which has the appearance of a decomposed granitic material.

Ground Water

Ground water was not encountered within our borings drilled on April 21, 1992.

CONCLUSIONS

Bearing Capacity

Field and laboratory test results indicate the undisturbed native soils encountered in the test borings are capable of supporting the slabs and poles described above. Our work also indicates that recompacted surface soils and engineered fill, placed and compacted in accordance with the recommendations of this report, will be capable of supporting the proposed slabs and equipment.

Soil Expansion Potential

The surface and near-surface soils are granular, low plasticity materials considered to be essentially non-expansive. Potentially expansive clays were encountered in one boring at a depth of approximately nine feet below existing grade; however, these soils are located deep at a sufficient depth to not significantly effect development.

Excavation Conditions

The soils encountered within the project limits are medium dense to very dense silty to clayey sands and very stiff clays; these soils are anticipated to be excavatable with conventional earthmoving, trenching and drilling equipment.

Soil Resistivity

Soil resistivity measurements were obtained in the field utilizing a Biddle Instruments Ground Resistance Tester. The four-probe method (Wenner Method) was used with equal spacing between all probes. Spacing of the probes for the testing was 2.5, 5.0 and 10 feet; two trials at each spacing was performed and then averaged. The results of this testing are contained in the following table:

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<u>Location</u>	<u>Probe Spacing - Feet</u>	<u>Average Reading ohms</u>	<u>Resistivity ohm-cm</u>	
See Plate No. 1	2.5	5.0	2395	23.95 Ω -m
See Plate No. 1	5.0	4.0	3830	
See Plate No. 1	10.0	1.8	3445	

To supplement the field soil resistivity measurements, four samples of soil were subjected to laboratory resistivity testing in accordance with Caltrans test methods. The samples were tested in "saturated" and "as received" conditions, resulting in values ranging from 720 to 3800 ohm/cm; a summary of these test results are contained in Appendix A.

The field resistivity readings were performed in April, 1992, after several weeks without rain; however, the soil was in a moist condition, which will decrease the resistivity. Other factors affecting soil resistivity are soil type, dissolved salts in the soil and temperature. We understand the interpretation of the resistivity data will be performed by others in the design of a grounding mat.

Ground Water

Our experience in the general Roseville area, as well as conditions encountered by our borings indicate a permanent ground water table should not be a factor in design or construction at this site.

Seasonal Water

During the wet season, infiltrating surface run-off water can create a saturated surface soil conditions. Grading operations attempted following the onset of winter rains and prior to drying periods will be hampered by high soil moisture contents. Such soils, intended for use as engineered fill, will require aeration to reach a moisture content that will permit the specified degree of compaction to be achieved.

RECOMMENDATIONS

Site Preparation

Site clearing for the proposed substation facility should include the removal of all surface organics by stripping. Strippings are not suitable for reuse in fill and should be removed from the site.

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Following site stripping, areas to receive fill and at-grade areas should be scarified to a minimum depth of six inches, brought to a uniform moisture condition and compacted in-place to at least 90 percent of the maximum dry density per ASTM D1557-78 specifications.

Engineered fill should be placed in horizontal lifts not exceeding six inches in compacted thickness. Each layer should be compacted at a uniform moisture content to at least 90 percent of the maximum dry density as defined above. On-site soils are considered acceptable for use in engineered fill if free of rubble, rubbish or concentrations of organics. Imported fill, if necessary, should be granular and be approved by our office prior to importation to the site.

The upper six inches of the subgrade for slabs should be uniformly compacted to at least 90 percent relative compaction. The upper six inches of final pavement subgrades should be uniformly compacted to at least 95 percent of the maximum dry density.

Site preparation should be accomplished in accordance with the recommendations of this section and the appended earthwork specifications. Our representative should be present throughout grading operations to determine compliance with job specifications.

Pole Foundation Design

Based upon the soil conditions in the vicinity of the proposed poles, we anticipate a drilled concrete pier will be suitable for support of the poles. The piers should be at least three feet in diameter and extend at least 10 feet into the ground. The piers may be sized for lateral resistance using a "passive" earth pressure equivalent to a fluid weighing 400 pounds per cubic foot (pcf). The upper two feet of soils should be disregarded in computing lateral resistance.

For support of vertical load, the piers may be designed as end bearing using an allowable bearing capacity of 6000 pounds per square foot (psf) for dead plus live load; this may be increased by 1/3 to include wind or seismic forces. Alternately, the piers may be designed as friction piers using an adhesion between the concrete and soil of 400 psf. If designed as friction piers, the upper two feet of soil must be disregarded in sizing computations.

Based upon the medium dense to very dense nature of the soils encountered within anticipated pole foundation embedment depths, we anticipate the drilled holes will remain open; however, minor caving could occur during construction operations, especially if holes are left open for an extended period of time.

Slab Support

Concrete slabs-on-grade for the switchgear equipment, capacitor banks, and other equipment may be placed directly on the soil grade without a capillary moisture barrier, although a granular leveling course consisting of crushed rock could be used, if desired. The crushed rock should be

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- 1) 5KV SWITCHGEAR - 45,000 lbs.
Pad size $16 \times 30 = 480 \text{ ft}^2$
Ave PSF = 93.75 PSF
- 2) Tx - 150,000 lbs
Pad size $16 \times 10 = 160 \text{ ft}^2$
Ave PSF = 937.5 PSF

graded so that 100 percent will pass a one-inch sieve and none will pass a No. 4 sieve. The subgrade soils are considered capable of supporting 1500 psf without significant total or differential settlements. Slab thicknesses and reinforcement should be determined by the structural engineer based upon anticipated loads.

LIMITATIONS

Our recommendations are based upon the information provided regarding the proposed construction, combined with our analysis of site conditions revealed by the field exploration and laboratory testing programs. We have used our best engineering judgment based upon the information provided and the data generated from our investigation. If the proposed construction is modified or resited; or, if it is found during construction that subsurface conditions differ from those we encountered at the boring locations, we should be afforded the opportunity to review the new information or changed conditions to determine if our conclusions and recommendations must be modified.

We would appreciate the opportunity to review the final plans and specifications to determine if the intent of our recommendations has been implemented in those documents.

We emphasize that this report is applicable only to the proposed construction and the investigated site. This report should not be utilized for construction on any other site.

Wallace - Kuhl & Associates, Inc.

Maria L. Machado

Maria L. Machado
Staff Engineer

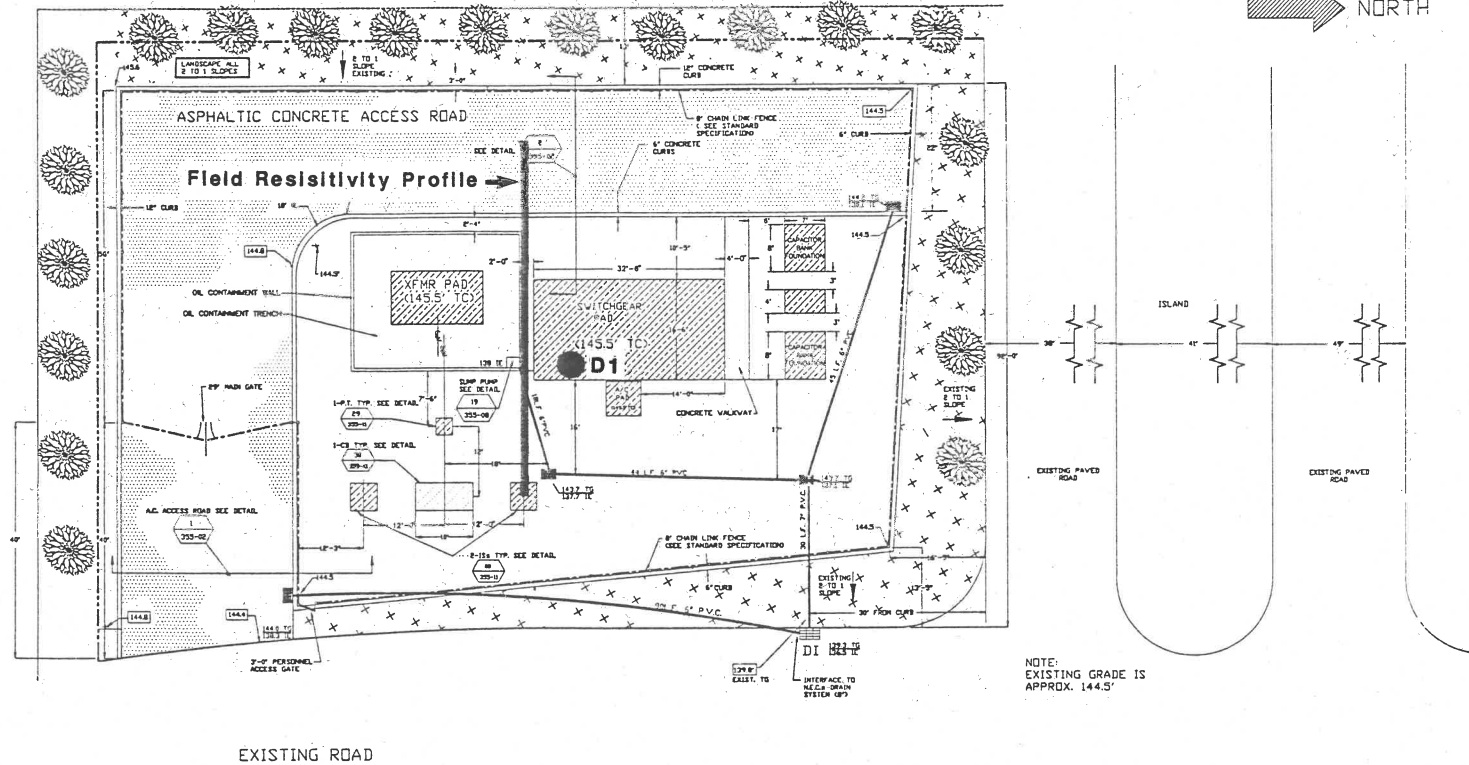
Stephen L. French

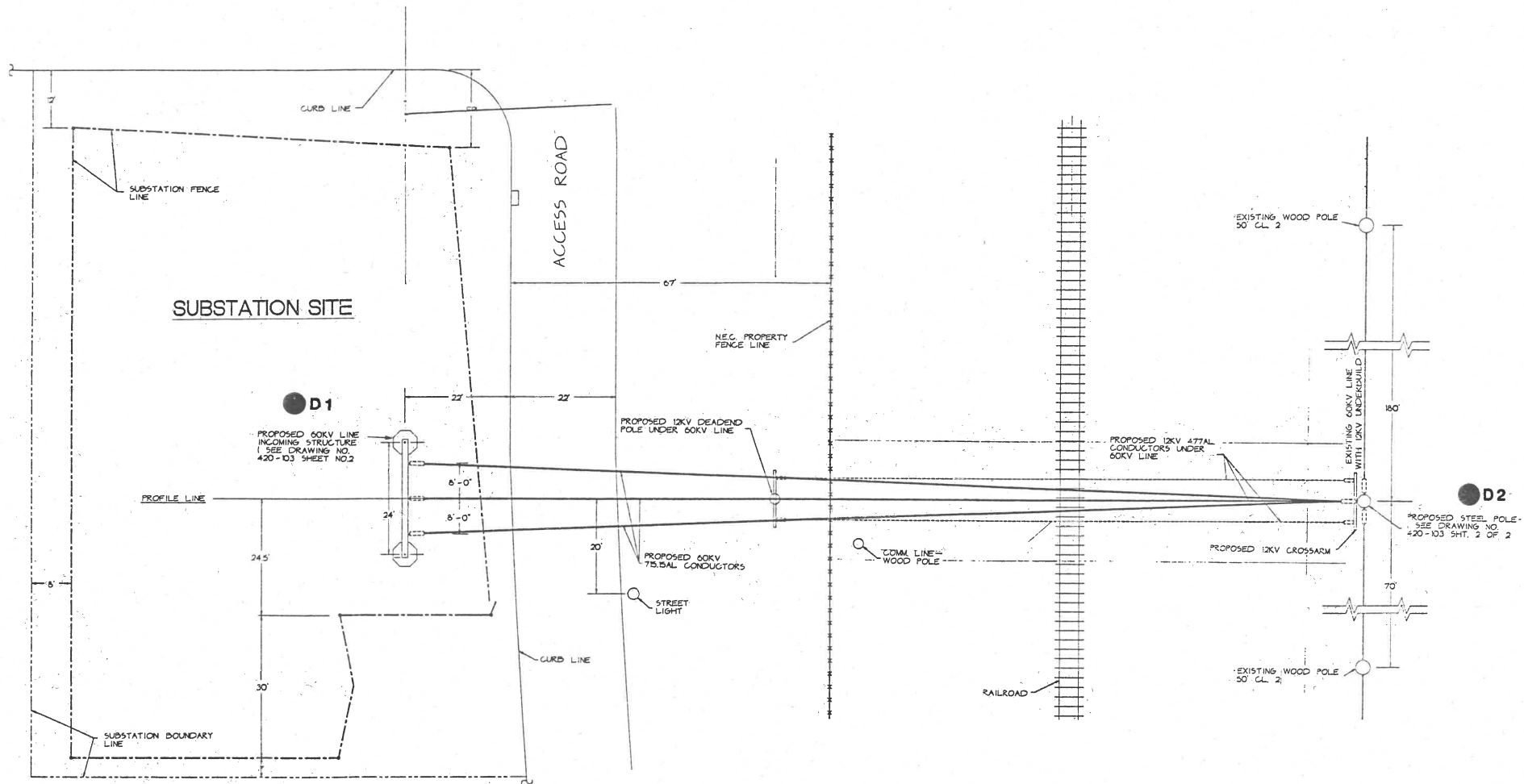
Stephen L. French
Director of Geotechnical Engineering



MLM:SLF:lk

PLEASANT GROVE SUBSTATION





KEY:

● = Boring location

NOTES:

1. Adapted from a 1"=10' scale site plan prepared by City of Roseville Electric Department, dated November 13, 1991.
2. Sample locations are approximate.

SCALE: feet
0 5 10 25

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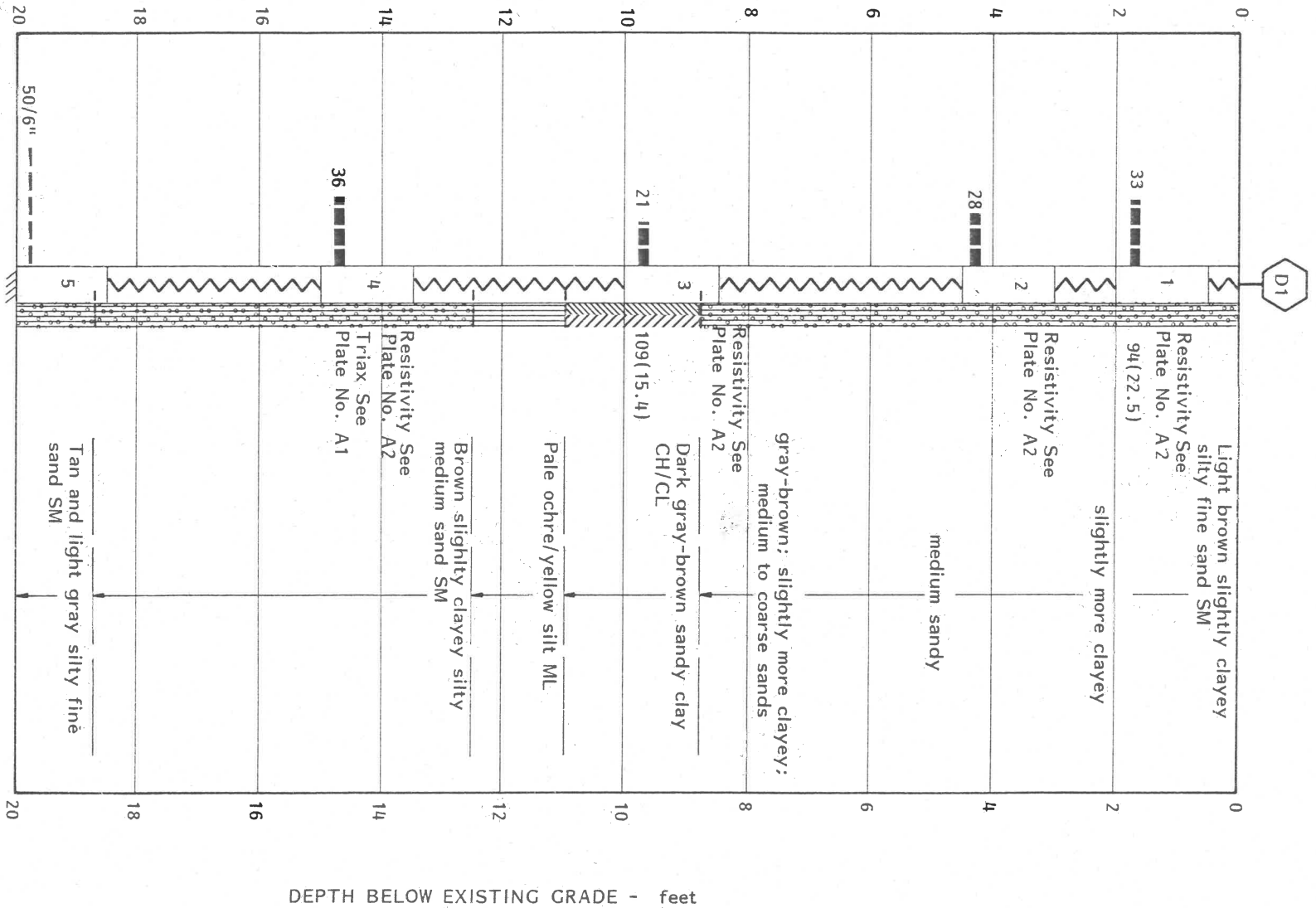
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CHECKED BY: MLM

PLEASANT GROVE SUBSTATION
NEC Electronics Campus
Roseville, California



PROJECT NO: 2087.01
DATE: 5/92
PLATE NO: 2

DEPTH BELOW EXISTING GRADE - feet



NOTES:

- 1) This log depicts conditions only at the boring location, see Plate No. 1, and only on the date of field exploration, April 21, 1992.
- 2) Free water was not encountered in the boring.
- 3) Explanations of the Unified Soil Classification System and the symbols used on the log are contained on Plate No. 5.

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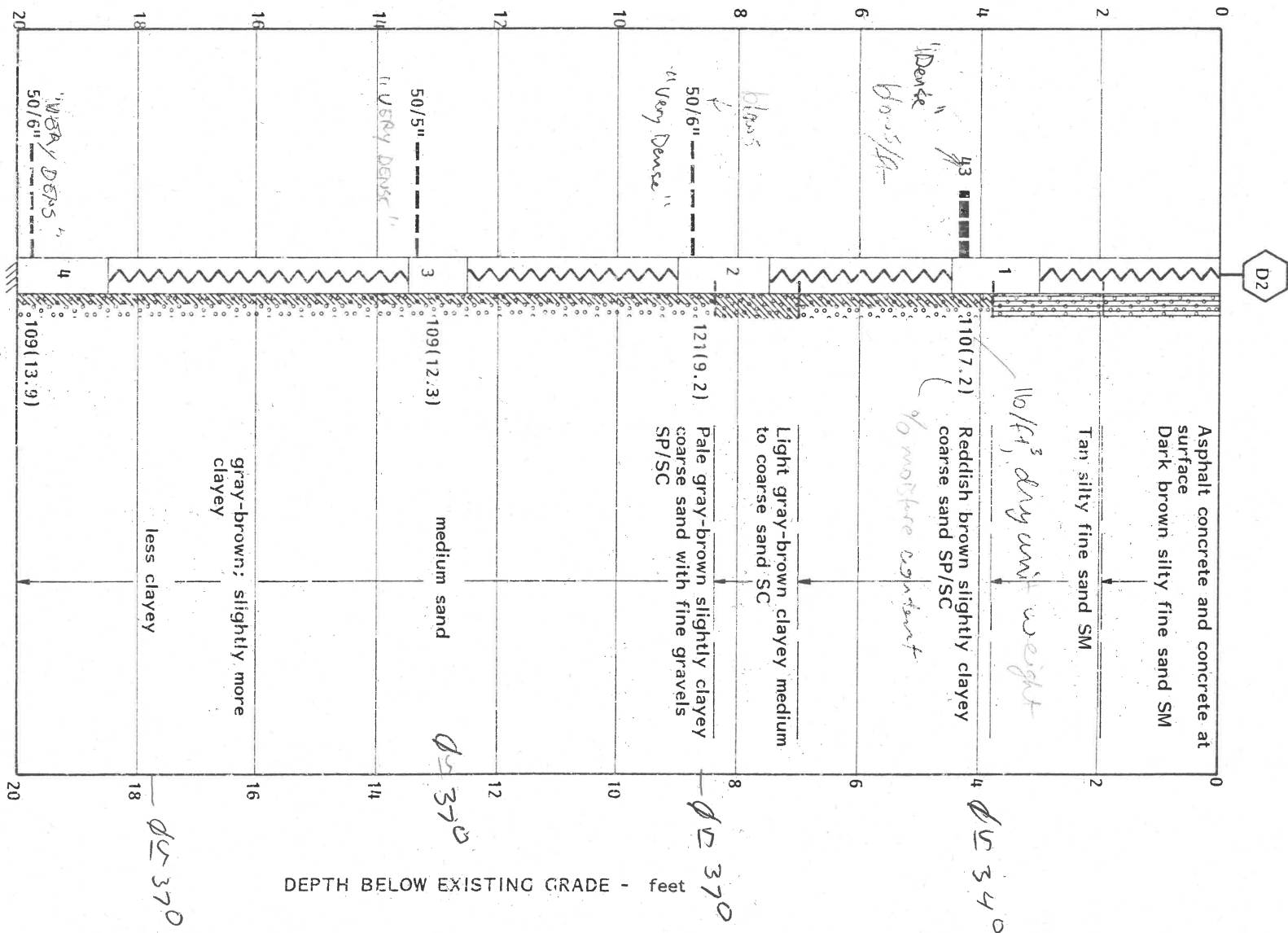
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PLEASANT GROVE SUBSTATION
NEC Electronics Campus
Roseville, California



PROJECT NO: 2087.01
DATE: 5/92
PLATE NO: 3

DEPTH BELOW EXISTING GRADE - feet



NOTES:

- 1) This log depicts conditions only at the boring location, see Plate No. 1, and only on the date of field exploration, April 21, 1992.
- 2) Free water was not encountered in the boring.
- 3) Explanations of the Unified Soil Classification System and the symbols used on the log are contained on Plate No. 5.

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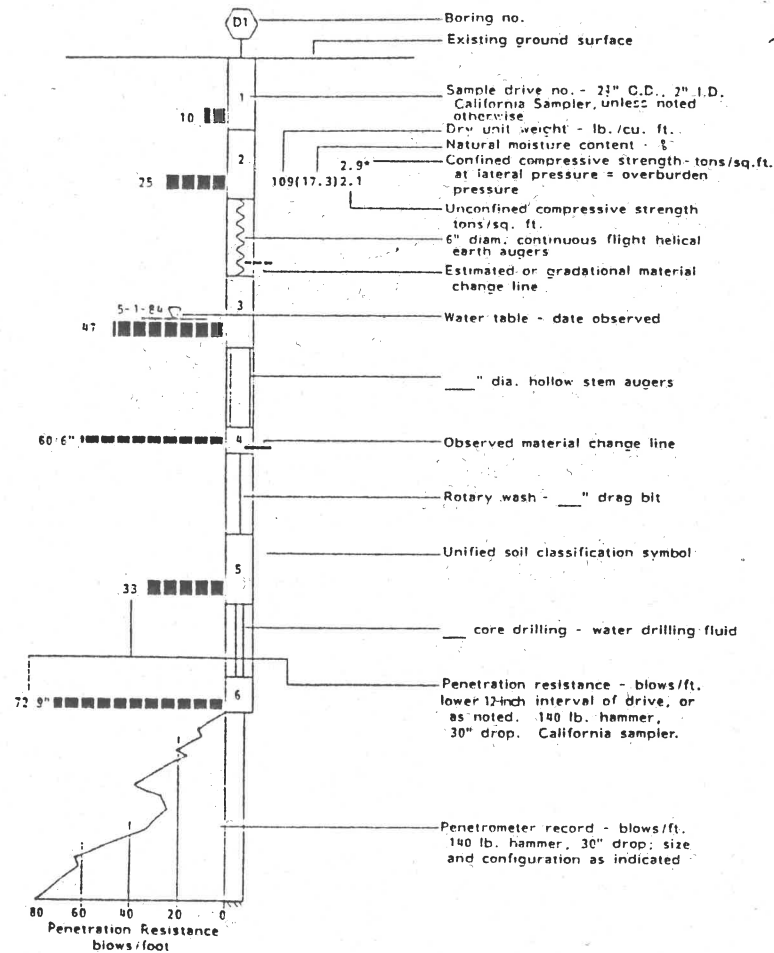
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CHECKED BY: MLM

PLEASANT GROVE SUBSTATION
NEC Electronics Campus
Roseville, California



PROJECT NO: 2087.01
DATE: 5/92
PLATE NO: 4



MAJOR DIVISIONS		SYMBOLS	CODE	TYPICAL NAMES	
COARSE GRAINED SOILS (More than 1/2 of soil > no. 200 sieve size)	<u>GRAVELS</u> (More than 1/2 of coarse fraction > no. 4 sieve size)	GW		Well graded gravels or gravel-sand mixtures, little or no fines	
		GP		Poorly graded gravels or gravel-sand mixtures, little or no fines	
		GM		Silty gravels, gravel-sand-silt mixtures	
		GC		Clayey gravels, gravel-sand-clay mixtures	
	<u>SANDS</u> (More than 1/2 of coarse fraction < no. 4 sieve size)	SW		Well-graded sands or gravelly sands, little or no fines	
		SP		Poorly graded sands or gravelly sands, little or no fines	
		SM		Silty sands, sand-silt mixtures	
		SC		Clayey sands, sand-clay mixtures	
FINE GRAINED SOILS (More than 1/2 of soil < no. 200 sieve size)	<u>SILTS & CLAYS</u> <u>LL < 50</u>	ML		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	
		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL		Organic silts and organic silty clays of low plasticity	
	<u>SILTS & CLAYS</u> <u>LL > 50</u>	MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
		CH		Inorganic clays of high plasticity, fat clays	
		OH		Organic clays of medium to high plasticity, organic silty clays, organic silts	
	HIGHLY ORGANIC SOILS		Pt		Peat and other highly organic soils

UNIFIED SOIL CLASSIFICATION SYSTEM

CLAY		SAND	
COHESIVE SOILS		GRANULAR SOILS	
Description	Blows/ft.	Description	Blows/ft.
Very Soft	< 3	Very Loose	< 5
Soft	3 - 5	Loose	5 - 15
Medium (firm)	6 - 10	Medium Dense	16 - 40
Stiff	11 - 20	Dense	41 - 65
Very Stiff	21 - 40	Very Dense	> 65
Hard	> 40		

CONSISTENCY CLASSIFICATION

CLASSIFICATION	RANGE OF GRAIN SIZES	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL	3" to No. 4	76.2 to 4.76
	coarse (c)	3" to 3/4"
	fine (f)	3/4" to No. 4
SAND	No. 4 to No. 200	4.76 to 0.074
	coarse (c)	No. 4 to No. 10
	medium (m)	No. 10 to No. 40
	fine (f)	No. 40 to No. 200
SILT & CLAY	Below No. 200	Below 0.074

GRAIN SIZE CLASSIFICATION

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DRAWN BY: **WGK**
CHECKED BY: **MLM**

PLEASANT GROVE SUBSTATION
NEC Electronics Campus
Roseville, California



PROJECT NO: **2087.01**
DATE: **5/92**
PLATE NO: **5**

APPENDICES

APPENDIX A

A. GENERAL INFORMATION

The performance of a geotechnical engineering investigation at the site of the proposed Pleasant Grove Substation to be built in Roseville, California, was authorized by Michael F. Neils on March 11, 1992. Authorization was for an investigation as described in our proposal letter of March 11, 1992, sent to our client, MacRostie-Neils Engineering, whose mailing address is 9261 Folsom Boulevard, Suite 203, Sacramento, California 95826; telephone (916) 362-3624.

In performing this investigation, we made reference to two 1"=10' scale site plans of the substation site and power pole layout prepared by the City of Roseville Electric Department.

B. FIELD EXPLORATION

Test borings were accomplished on April 21, 1992 utilizing a CME-55 truck-mounted drill rig. At the locations indicated on Plates No. 1 and 2, two exploratory borings were drilled to a maximum depth of 20 feet using four-inch diameter continuous flight helical augers. At various intervals, relatively undisturbed soil samples were recovered with a 2-1/2 inch O.D., 2-inch I.D. California sampler driven by a 140 pound hammer freely falling 30 inches. The number of blows of the hammer required to drive the 18-inch long sampler each 6-inch interval was recorded with the sum of the blows required to drive the sampler the lower 12-inch interval, or portion thereof, being designated the penetration resistance or "blow count" for that particular drive.

The samples were retained in 2-inch diameter by 6-inch long thin-walled brass tubes contained within the sampler. Immediately after recovery, the soils in the tubes were visually classified by the field engineer and the ends of the tubes were sealed to preserve the natural moisture contents. All samples were taken to our laboratory for soil classification and selection of samples for testing. The Boring Logs, Plates No. 3 and 4, contain descriptions of the soils encountered in each boring. A Boring Legend explaining the Unified Soil Classification System and the symbols used on the logs is contained on Plate No. 5.

C. LABORATORY TESTING

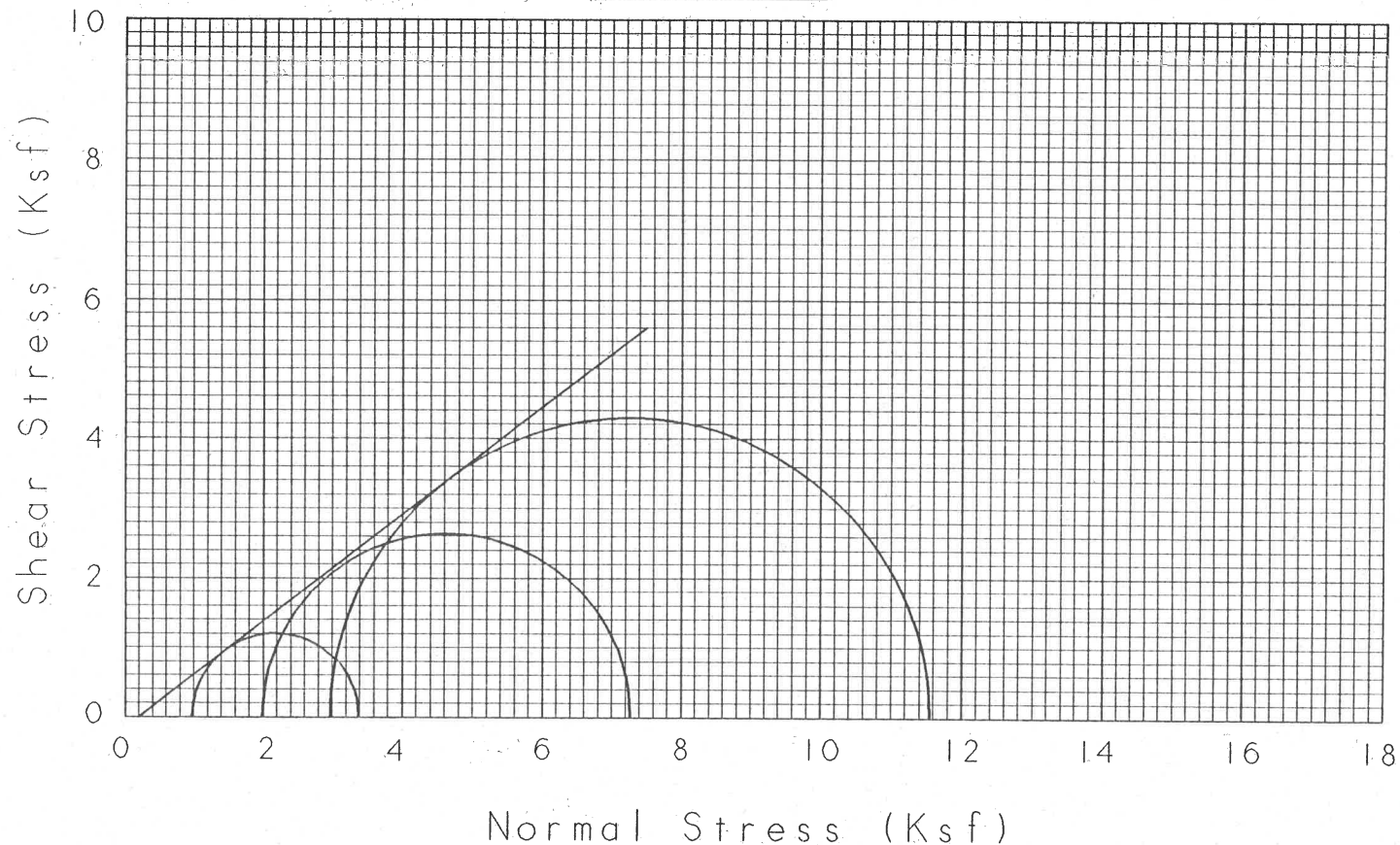
Selected undisturbed samples of the soils were tested to determine dry unit weight and natural moisture content (ASTM D2216), and shear strength parameters from triaxial testing (California Test 230A). The results of the moisture/density tests are included on the boring logs at the depth each sample was obtained. Results of triaxial testing are contained on Plate No. A1.

Four samples of the soils were sent to ConCeCo Engineering, Inc., for resistivity testing. The results of resistivities for "as-received" and "saturated" conditions are presented on Plate No. A2.



TRIAXIAL COMPRESSION TEST

CTM 230A



SAMPLE NO: DI-41

SAMPLE CONDITION: UNDISTURBED

SOIL DESCRIPTION: Grayish brown silty
fine to medium sand SM

DRY DENSITY(PCF): 96
INITIAL MOISTURE(%): 11.1
FINAL MOISTURE(%): 18.2

ANGLE OF INTERNAL FRICTION (ϕ): 37°
COHESION(PSF): 0

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GEOTECHNICAL ENGINEERING

DRAWN BY: DRG
CHECKED BY: MLM

PLEASANT GROVE
SUBSTATION
Roseville, California



PROJECT NO: 2087.01
DATE: 5/92
PLATE NO: A1

ConCeCo Engineering, Inc.

Client: **Wallace • Kuhl & Associates**
WKA No. 2087.01

Our Job No. 3S92001.04

Project: Roseville, CA

Samples Received: April 24, 1992

SOIL TEST SUMMARY

Sample No.	Location	Depth	Resistivity, (ohm-cm)		Soil Description
			As Rec'd	Saturated	
1	D1 - 1II	1-1.5	2,680	1,920	Brown silty loam - moist
2	D1 - 2II	3.5-4	2,080	1,840	Dark brown clay loam - moist
3	D1 - 3II	9-9.5	720	720	Dark brown silty clay - saturated
4	D1 - 4II	14-14.5	3,800	3,800	Brown silty sand - saturated

File: TR92001.04

Notes: The above tests were performed in accordance with the following Caltrans Test Methods:

- a. California Test 643 (1978): METHOD FOR ESTIMATING THE SERVICE LIFE OF STEEL CULVERTS.
- b. California Test 532 (1978): METHOD FOR ESTIMATING THE TIME TO CORROSION OF REINFORCED CONCRETE SUBSTRUCTURES.



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PLEASANT GROVE SUBSTATION
NEC Electronics Campus
Roseville, California

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DATE: 5/92
PLATE NO: A2

APPENDIX B
EARTHWORK SPECIFICATIONS
PLEASANT GROVE SUBSTATION
NEC Electronics Campus
Roseville, California

GEOTECHNICAL REPORT

A Geotechnical Report (WKA No. 2087.01; dated May 20, 1992), has been prepared for this project by Wallace - Kuhl & Associates, Inc. of West Sacramento, California [(916) 372-1434].

SEASONAL LIMITS

Fill material shall not be placed, spread or rolled during unfavorable weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until field tests indicate that the moisture contents of the subgrade and fill materials are satisfactory.

MATERIALS

All fill shall be of approved local materials from required excavations, supplemented by imported fill, if necessary. Approved local materials are defined as local soils free from rubble, rubbish and vegetation and shall be approved by the Geotechnical Engineer prior to use. Clods or rocks exceeding six inches (6") in final size shall not be allowed in the upper two feet (2') of fill. Imported fill materials shall meet the above requirements and shall have plasticity indices not exceeding twelve (12).

CLEARING, GRUBBING AND PREPARING BUILDING PADS

- a. All significant vegetation; rubbish; existing man-made fills and saturated materials; underground utilities within two feet (2') of original or final grade (whichever is lower) shall be

removed from building areas and disposed of. Excavations and depressions resulting from the removal of such items shall be cleaned out to firm, undisturbed soil and backfilled with suitable materials in accordance with these specifications.

b. The surfaces upon which fill is to be placed shall be plowed or scarified to a depth of at least six inches (6") and moisture conditioned until the moisture content is satisfactory for compaction.

After the foundation for the fill has been adequately processed, it shall be compacted to not less than ninety percent (90%) of the maximum dry density as determined by the ASTM D1557-78 Compaction Test.

PLACING, SPREADING AND COMPACTING FILL MATERIAL

The selected fill material shall be placed in layers which when compacted shall not exceed six inches (6") in thickness. Each layer shall be spread evenly, thoroughly mixed and compacted to not less than ninety percent (90%) of maximum dry density as determined by the ASTM D1557-78 Compaction Test. Each layer shall be compacted over its entire area until the desired density has been obtained.

FINAL SUBGRADE PREPARATION

The upper six inches (6") of the subgrades for slabs-on-grade shall be uniformly compacted to at least ninety percent (90%) relative compaction, regardless of whether final subgrade elevation is attained by filling, excavation or is left at existing grade.

The upper six inches (6") of pavement subgrades should be uniformly compacted to at least ninety-five percent (95%) relative compaction, regardless of whether final subgrade elevation is attained by filling, excavation or is left at existing grade.

TESTING AND OBSERVATION

All grading operations shall be tested and observed by the Soil Engineer, who is serving as the representative of the Owner.

Earthwork shall not be performed without prior notification and approval of the Soil Engineer.

The Contractor shall notify the Soil Engineer at least two (2) working days prior to commencement of any aspect of the site earthwork.

**GEOTECHNICAL INVESTIGATION REPORT
PROPOSED 230-60 kV FIDDYMENT SUBSTATION
CITY OF ROSEVILLE
ROSEVILLE, CALIFORNIA**

December 20, 1994

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APPENDIX A

FIELD INVESTIGATION AND LABORATORY TESTING

FIELD INVESTIGATION

General

The subsurface conditions at the site were explored on October 27 and 28, 1994, by drilling 14 borings to depths ranging from 20 to 21-1/2 feet below existing grade. Borings were drilled using Mobile B-61 and B-53 truck-mounted drill rigs equipped with a 4-inch-diameter solid-stem auger. The locations of borings performed for this investigation are shown on Plate 2 of the report. Designation "B-4" was omitted from the drilling program and is not shown on Plate 2.

IMPORTANT NOTE: Borings were located in the field by visual sighting and/or pacing from existing site features. Therefore, the location of borings shown on Plate 2 should be considered highly approximate and may vary from that indicated on the plate.

Our engineer maintained a log of the borings, visually classified soils encountered according to the Unified Soil Classification System (see Plate A-1), and obtained relatively undisturbed and bulk samples of the subsurface materials. A key to the Logs of Borings is presented on Plate A-2 of this appendix; Logs of Borings are presented on Plates A-3 through A-16.

Sampling Procedures

Soil samples were obtained from the borings using a Modified California Sampler driven 18 inches (unless otherwise noted) into undisturbed soil using a 30-inch drop of a 140-pound hammer. Blow counts were recorded at 6-inch intervals for each sample attempt and are reported on the logs in terms of blows-per-foot for the last foot of penetration. Soil samples obtained from the borings were packaged and sealed in the field to reduce moisture loss and disturbance, and returned to our Sacramento laboratory for further testing. After borings were completed, they were backfilled with the drill cuttings.

LABORATORY TESTING

General

Laboratory tests were performed on selected samples to aid in soil classification and to evaluate physical properties of the soils which may affect the geotechnical aspects of project design and construction. A description of the laboratory testing program is presented below; a summary of all laboratory tests performed is presented on the Summary of Laboratory Tests, Plate A-17.

Moisture Content and Dry Unit Weight

Moisture content and dry unit weight tests were performed to evaluate moisture-conditioning requirements during site preparation and earthwork grading; soil overburden, and active and passive earth pressures; and relative soil strength and compressibility. Moisture content was evaluated in general accordance with ASTM Test Method D 2216; dry unit weight was evaluated using procedures similar to ASTM Test Method D 2937. Results of these tests are presented on the logs and are summarized on the Summary of Laboratory Tests.

Sieve Analysis

Sieve analyses were performed to evaluate the gradational characteristics of the material and to aid in soil classification. Tests were performed in general accordance with ASTM Test Method C 136. Results of these tests are presented on the logs and are summarized on the Summary of Laboratory Tests.

Atterberg Limits

Atterberg Limits tests were performed to aid in soil classification and to evaluate the plasticity characteristics of the material. Additionally, test results were correlated to published data to evaluate the shrink/swell potential of near-surface site soils. Tests were performed in general accordance with ASTM Test Method D 4318. Results of these tests are presented on the logs and are summarized on the Summary of Laboratory Tests.

pH and Resistivity

pH and resistivity tests were performed on soil samples obtained near anticipated foundation and underground utility depths to evaluate soil corrosivity effects on buried concrete and steel. Test procedures were in general accordance with California Tests 643 and 532. Results of these tests are presented on the Summary of Laboratory Tests.

Direct Shear

Direct shear tests were performed on relatively undisturbed samples to evaluate the drained shear strength of the site soils. Samples were tested in a near-saturated condition in general accordance with ASTM Test Method D 3080 (consolidated, drained). Results of these tests are presented on Plates A-18 and A-19.

Expansion Index

An expansion index (EI) test was performed on a remolded, fine-grained soil sample considered representative of the anticipated floor slab subgrade. Test procedures were in general accordance with the Uniform Building Code (UBC) Standard 29-2. Results of this test are presented on the Summary of Laboratory Tests and may be compared to the table presented below to qualitatively evaluate the expansion potential of the near-surface site soils.

<u>Expansion Index</u>	<u>Potential Expansion</u>
0-20	Very low
21-50	Low
51-90	Medium
91-130	High
Above 130	Very high

Compaction

Three compaction tests were performed on near-surface bulk soil samples to evaluate maximum dry density and optimum moisture content. Test procedures were in general accordance with ASTM Test Method D 1557. Results of these tests are presented on the Summary of Laboratory Tests and Plate A-20.

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		USCS SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS (MORE THAN HALF OF MATERIAL IS LARGER THAN THE #200 SIEVE)	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN THE #4 SIEVE	CLEAN GRAVELS WITH LITTLE OR NO FINES	 GW WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
			 GP POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES WITH LITTLE OR NO FINES
		GRAVELS WITH OVER 12% FINES	 GM SILTY GRAVELS, GRAVEL-SILT-SAND MIXTURES
			 GC CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN THE #4 SIEVE	CLEAN SANDS WITH LITTLE OR NO FINES	 SW WELL-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
			 SP POORLY-GRADED SANDS, SAND-GRAVEL MIXTURES WITH LITTLE OR NO FINES
		SANDS WITH OVER 12% FINES	 SM SILTY SANDS, SAND-GRAVEL-SILT MIXTURES
			 SC CLAYEY SANDS, SAND-GRAVEL-SILT MIXTURES
FINE GRAINED SOILS (MORE THAN HALF OF MATERIAL IS SMALLER THAN THE #200 SIEVE)	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		 ML INORGANIC SILTS & VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY
			 CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			 OL ORGANIC SILTS & ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		 MH INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILT
			 CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			 OH ORGANIC CLAYS & ORGANIC SILTS OF MEDIUM-TO-HIGH PLASTICITY
HIGHLY ORGANIC SOILS		 PT PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	



SOIL CLASSIFICATION SYSTEM
230-60kv FIDDYMENT SUBSTATION
CITY OF ROSEVILLE
ROSEVILLE, CALIFORNIA

PLATE

A-1

PROJECT NO. 23-481415.A00

LOG SYMBOLS

	BULK / BAG SAMPLE	-4	PERCENT FINER THAN THE NO. 4 SIEVE (ASTM Test Method C 136)
	MODIFIED CALIFORNIA SAMPLER (2-1/2 inch outside diameter)	-200	PERCENT FINER THAN THE NO. 200 SIEVE (ASTM Test Method C 117)
	CALIFORNIA SAMPLER (3 inch outside diameter)	LL	LIQUID LIMIT (ASTM Test Method D 4318)
	STANDARD PENETRATION SPLIT SPOON SAMPLER (2 inch outside diameter)	PI	PLASTICITY INDEX (ASTM Test Method D 4318)
	SHELBY TUBE (3 inch outside diameter)	EI	EXPANSION INDEX (UBC Standard 29-2)
	CORE BARREL (1-3/4 inch inside diameter)	COL	COLLAPSE POTENTIAL
	WATER LEVEL (level after completion)	UC	UNCONFINED COMPRESSION
	WATER LEVEL (level where first encountered)	MC	MOISTURE CONTENT

GENERAL NOTES

1. Lines separating strata on the logs represent approximate boundaries only. Actual transitions may be gradual.
2. No warranty is provided as to the continuity of soil conditions between individual sample locations.
3. Logs represent general soil conditions observed at the point of exploration on the date indicated.
4. In general, Unified Soil Classification designations presented on the logs were evaluated by visual methods only. Therefore, actual designations (based on laboratory tests) may vary.



PROJECT NO. 23-481415.A00

LOG KEY
230-60kv FIDDYMENT SUBSTATION
CITY OF ROSEVILLE
ROSEVILLE, CALIFORNIA

PLATE

A-2

Date Completed:10/27/94

Logged By:S. Tracy

Total Depth:21 feet

Surface Conditions:Vegetation consisting of low-to-high grasses.

Groundwater:No free groundwater encountered.

Depth, ft	Sample Type	Sample No.	FIELD		LABORATORY			DESCRIPTION
			Blows/ft	Pen, tsf	Dry Density, pcf	Moisture Content, %	Other Tests	Approximate Surface Elevation (ft):
		1A						Sandy SILT (ML): Red-brown to gray, moist, very dense, strongly cemented, fine grained sand
		2A 2B	50/3"		90	20		
5								with interbed of fine silty sand
		3A 3B	50/6"					
10								
		4A 4B	50/3"					
15								SAND (SP): Gray and black, slightly moist, medium dense, fine to coarse grained
		5A 5B	63					
20			50/5"					
								no recovery
								Boring completed at a depth of approximately 21 feet below existing site grade.
25								

Date Completed:10/27/94

Logged By:S. Tracy

Total Depth:20-1/2 feet

Surface Conditions:Vegetation consisting of low-to-high grasses.

Groundwater:No free groundwater encountered.

Depth, ft	Sample Type	FIELD		LABORATORY			Other Tests	DESCRIPTION	
		Sample No.	Blows/ft	Pen, tsf	Dry Density, lb/cu ft	Moisture Content, %		Approximate Surface Elevation (ft):	
5	1A	1B	32		109	7		Silty SAND (SM): Red-brown, moist, medium dense, fine grained	
	2A							grades yellow-brown, fine to medium grained, with decreasing silt	
10	2B	2B	13				-200=21%	Silty SAND (SM): Brown, moist, very dense, fine to coarse grained	
	3A								
15	3B	3B	88/11"					Sandy SILT (ML): Yellow-brown, moist, very dense, fine to medium grained sand	
	4A								
20	4B	4B	75/8"					SAND (SP): Brown, moist, medium dense, fine to medium grained	
	5A							Sandy SILT (ML): Gray, slightly moist, hard, fine grained sand	
25	5B	5B	59					Boring completed at a depth of approximately 20-1/2 feet below existing site grade.	

 KLEINFELDER

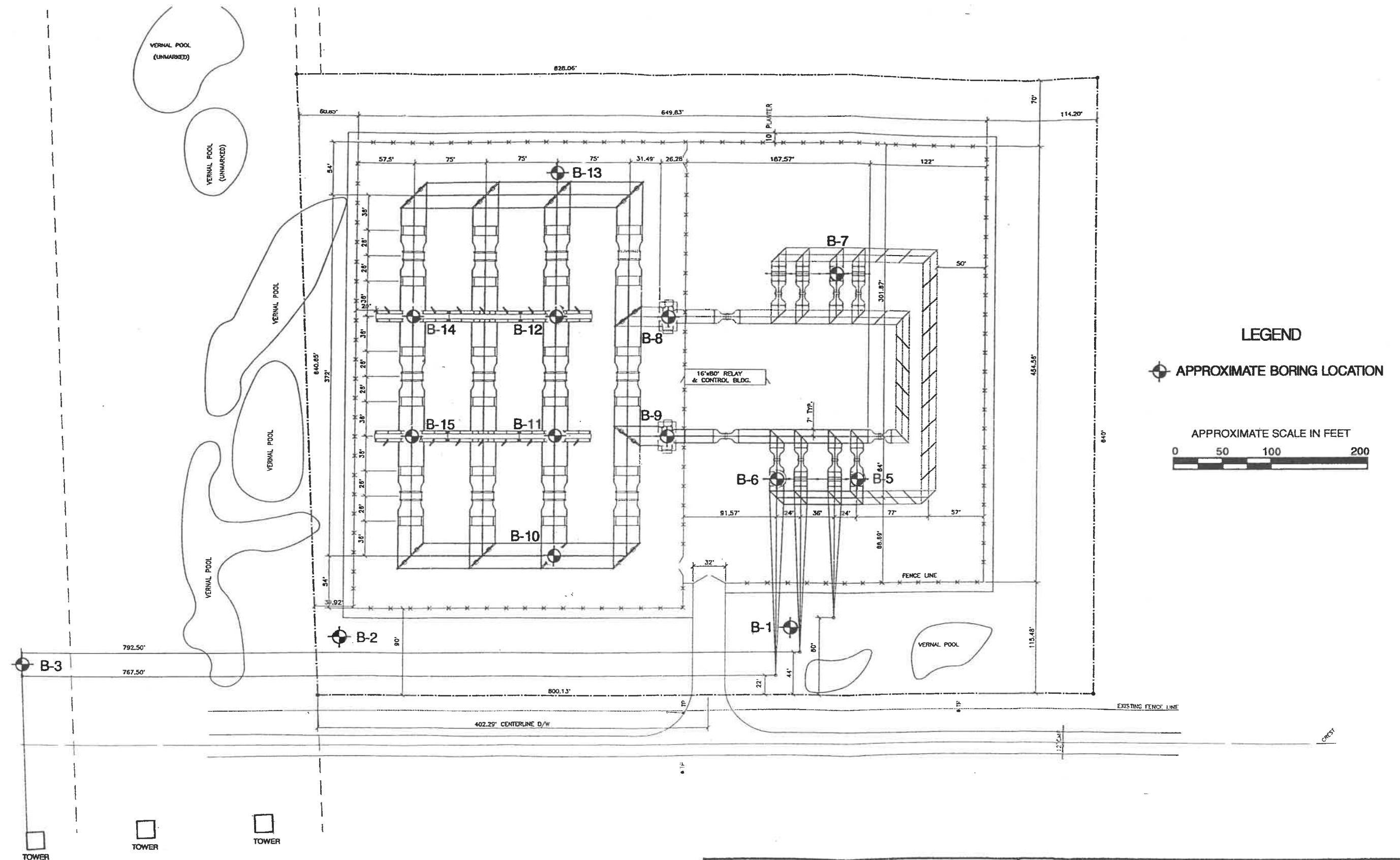
PROJECT NO. 23-481415.A00

LOG OF BORING B- 2
230-60kv FIDDYMENT SUBSTATION
CITY OF ROSEVILLE
ROSEVILLE, CALIFORNIA

PLATE
1 of 1

A-4

BORING NO.		SAMPLE NO.	SAMPLE DEPTH (ft)	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (% of dry weight)	PARTICLE SIZE - Percent Passing					ATTERBERG LIMITS		OTHER TESTS
						1" 3/4"	#4	#10	#40	#200			
B-1		2B	2½	90	20								
B-2		1B	1	109	7								
B-2		2B	5							21			
B-3		2B	2	87	6					54			
B-5		1A	½-3										Minimum resistivity=4,200 ohm-cm @ pH=6.3
B-5		1A	½-3										Compaction Curve See Plate A-20
B-5		2B	1	91	17								
B-6		3B	5½	74	27								Direct Shear See Plate A-18
B-6		4A	10½							19			
B-6		5B	15½	87	31								
B-7		2B	5½	101	18								
B-7		3A	10½	77	40								
B-8		2B	2								34	18	
B-9		1A	½-3										Compaction Curve See Plate A-20
B-9		2B	1	106	7					49			
B-9		3B	5	107	14								Direct Shear See Plate A-19
B-10		1A	1½-4½								27	13	Expansion Index = 78 @ 107.1 pcf & 11.0% MC
B-10		1A	1½-4½								27	13	Minimum resistivity=2,300 ohm-cm @ pH=6.5
B-10		1A	1½-4½								27	13	Compaction Curve See Plate A-20
B-10		2B	3	113	15								
SUMMARY OF LABORATORY TESTS 230-60kv FIDDYMENT SUBSTATION CITY OF ROSEVILLE ROSEVILLE, CALIFORNIA													PLATE 1 of 2 A-17
PROJECT NO. 23-481415.A00													
KLEINFELDER													



REFERENCE: "SUBSTATION PLAN";
by Resource Management International, Inc.; dated 10/6/94.

NOTE: DESIGNATION "B-4" WAS NOT USED DURING THIS STUDY.



PROJECT NO. 23-481415.A00

**BORING LOCATION MAP
230-60kv FIDDYMENT SUBSTATION
CITY OF ROSEVILLE
ROSEVILLE, CALIFORNIA**

PLATE

2



COUNCIL COMMUNICATION

CC #: 0715
File #: 0203-05

Title: Citywide Phone System Support - Contract Purchase Agreement
Contact: Karl Grover 916-774-5145 kgrover@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.10.

RECOMMENDATION TO COUNCIL

Recommend Council authorize a Contract Purchase Agreement with Altura Communication Solutions, LLC for the renewal of support for the citywide phone system in the amount of \$97,186.68.

BACKGROUND

The citywide phone system for all departments is called Avaya with support provided by Altura Communication Solutions, LLC. The phone system enables normal phone calls to be made and received as well as call center services. The support coverage period is from March 1, 2020 through February 28, 2021. The cost is \$97,186.68 through Altura Communication Solutions using a competitively-bid contract via General Services Administration contract number GS-35F-0156V.

FISCAL IMPACT

The support renewal cost of \$97,186.68 is accounted for in the FY2019-20 Information Technology's Internal Service Fund budget.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. A contract purchase agreement for the support of the Citywide phone system meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Karl Grover, Acting Program Manager - IT Network Infrastructure

Hong Sae, Chief Information Officer

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, likely belonging to Dominick Casey.

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-116

Contract Purchase Agreement 3000263

RESOLUTION NO. 20-116

APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF
ROSEVILLE AND ALTURA COMMUNICATION SOLUTIONS, LLC, AND
AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF
ROSEVILLE

WHEREAS, a contract purchase agreement (3000263) for the citywide telephone system support, between the City of Roseville and Altura Communication Solutions, LLC, has been reviewed by the City Council;

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said contract purchase agreement is approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 2020, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



Contract Purchase Agreement 3000263

Supplier Details:

Company Altura Communication Solutions LLC
Contact James Mullenix
Address 1335 South Acacia Avenue

Fullerton, CA 92831

Submit your response to:

Company City of Roseville
Contact Babette Owens
Address Purchasing Division
2075 Hilltop Circle
Roseville, CA 95747
Phone (916) 774-5704
Fax (916) 774-5736
E-mail BOwens@roseville.ca.us

This Contract Purchase Agreement is sent for your review and acceptance. Notify the Buyer via email of any needed changes to the company name, address, and contact information. The Buyer will update the agreement prior to you signing the document.

Return signed copies of the agreement to the Buyer noted on the agreement. Alterations or modifications to the agreement are not allowed. Upon receipt of all necessary documents, the City will sign the agreement and return a fully executed copy to you. Receipt of the signed copy will be your notice to proceed with the work in accordance with the terms and conditions of the agreement. Work must not begin until the contract has been fully executed.

The following guidelines must be followed for the signature block on the agreement:

Sole proprietorship - By owner

Partnership - Any general partner

Corporation - Two options:

(1) A signature from the President and the corporate seal; OR

(2) One signature from the Chairman of the Board, President, or any Vice President AND one signature from the Secretary, any Assistant Secretary, Chief Financial Officer, or any Treasurer or Assistant Treasurer of the corporation

*General Manager, Office Manager and/or Sales Manager are **not** corporate officer titles. The agreement will be rejected if not signed in accordance with these guidelines.

Insurance requirements:

The City's insurance requirements are referenced on Attachment A of the agreement. By signing the agreement, you are confirming that your company has the minimum insurance limits required.



Contract Purchase Agreement 3000263

Agreement	3000263
Agreement Date	31-MAR-2020
Revision	0
Agreement Amount	97,186.68 USD

Invoice To **City of Roseville**
Accounts Payable
311 Vernon St
ROSEVILLE CA 95678

Phone: (916) 774-5488
Fax: (916) 784-3796
Email: accountspayable@roseville.ca.us

Supplier **Altura Communication Solutions LLC**
 1335 South Acacia Avenue

Fullerton, CA 92831
Phone: (714) 948-8429
Fax: ()
Email: jmullenix@alturacs.com

Description of Labor, equipment and/or materials: Vendor shall provide Avaya phone system support in accordance with the attached Proposal for: City of Roseville dated February 03, 2020, the Altura Communication Solutions "Exhibit A - Order Form," and the MASTER SALES AND MAINTENANCE AGREEMENT (Amended 06/06/2016) ("Agreement") between Altura Communication Solutions, LLC and City of Roseville ('Customer') utilizing Avaya GSA Pricing Schedule Contract# GS-35F-0156V and Altura GSA Pricing Schedule Contract # GS-35F-0666W.

Please contact Karl Grover at kgrover@roseville.ca.us or phone number (916) 774 5145 for questions regarding this agreement.

Customer #	Supplier #	Payment Terms	Freight Terms	FOB	Shipping Method
	11140	Net 30	Freight on Board at the destination	Destination	Best Method
Start Date	End Date	Confirm To			
01-Mar-2020	28-Feb-2021	Babette Owens Phone 1-916-774-5704			

Attention: Total Cost not to exceed the agreement amount without prior approval of the Purchasing office.

Contract Terms and Conditions

1. To the fullest extent allowed by law, Consultant agrees to indemnify, including the cost to defend City, and its officers, agents, employees and volunteers from any and all claims, demands, costs or liability that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of Consultant and its agents in the performance of services under this contract, but this indemnity does not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss, arising from the sole negligence, willful misconduct or defects in design by City or the agents, servants, or independent contractors who are directly responsible to City, or arising from the active negligence of City. Consultant's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.
2. Consultant is an independent contractor, and shall not be considered an officer, agent or employee of the City
3. Without the written consent of the City, this Agreement is not assignable by Consultant either in whole or in part.
4. Time is of the essence of this Agreement
5. At any time during the term of this Agreement, the City has the right to terminate this Agreement, provided Consultant is given thirty (30) days written notice. City's termination shall be without further liability to City; however, Consultant shall be entitled to all costs reasonably incurred prior to the date of termination. Consultant acknowledges that City may terminate this Agreement should funds not be appropriated by its governing body to continue services under this Agreement.
6. This Agreement may only be amended or modified in writing. It is integrated and contains the complete understanding of the parties
7. All equipment, supplies and services sold to the City of Roseville shall conform to the general safety orders of the State of California.
8. Unless notified to the contrary, in writing, the City assumes that the Consultant has accepted the work in accordance with the plans and specifications (if any) and agrees to do the work in compliance with this Agreement. Any work product created for City pursuant to this Agreement is deemed owned by City
9. All prevailing wages and fair employment practices must be adhered to. For prevailing wage contracts over \$25,000, copies of certified payroll must be submitted with invoices. Prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address:
<http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>
10. Consultant agrees to the below insurance requirements
 - a. Unless otherwise specified, the Consultant shall maintain the policies of insurance outlined in Attachment A, incorporated herein by this reference, in full force and effect during the term of this Agreement. The City of Roseville retains sole discretion in determining the types and proper levels of insurance coverage
 - b. Form. Consultant shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney
 - c. Additional Insureds. Consultant shall also provide a separate endorsement or section of the policy showing City, its officers, agents, employees, and volunteers as additional insureds for each type of coverage, except for Workers' Compensation and

Professional Liability. Such insurance shall specifically cover the contractual liability of Consultant. The additional insured coverage under the Consultant's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from City's insurance or self-insurance. In addition, the additional insured coverage shall be at least as broad as the Insurance Services Office (ISO) CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be:

- (1) the minimum coverage and limits specified in this Agreement; or
 - (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater
- d. Cancellation/Modification. Consultant shall provide ten (10) days written notice to City prior to cancellation or modification of any insurance required by this Agreement.
 - e. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of City (if agreed to in a written contract) before City's own insurance shall be called upon to protect it as a named insured
 - f. Subconsultants. Consultant agrees to include in its contracts with all subconsultants the same requirements and provisions of this Agreement, including the indemnity and insurance requirements, to the extent they apply to the scope of the subconsultants work. Furthermore, Consultant shall require its subconsultants to agree to be bound to Consultant and City in the same manner and to the same extent as Consultant is bound to City under this Agreement. Additionally, Consultant shall obligate its subconsultants to comply with these same provisions with respect to any tertiary subconsultant, regardless of tier. A copy of City's indemnity and insurance provisions will be furnished to the subconsultant or tertiary subconsultant upon request.
 - g. Self-Insured Retentions. All self-insured retentions (SIR) must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.
 - h. Waiver of Subrogation. Consultant hereby agrees to waive subrogation which any insurer of Consultant may acquire from Consultant by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General Liability and Automobile Liability policies shall be endorsed with a waiver of subrogation in favor of City, its officers, agents, employees and volunteers for all work performed by Consultant, its employees, agents and sub consultants.
 - i. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve Consultant of liability in excess of such coverage, nor shall it preclude City from taking such other actions as are available to it under any other provisions of this Agreement or law
11. Consultant shall comply with all federal, state, local laws, ordinances and policies as may be applicable to the performance of services under this Agreement. Failure to comply with local ordinances may result in monetary fines and cancellation of this Agreement.
 12. In the event that the terms of any attachment or exhibit conflict with any terms of this Agreement, the terms of this Agreement shall control.
 13. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a

".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original thereof

14. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorneys' fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. This Agreement shall be governed by and construed in accordance with the laws of the State of California.
15. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto
16. If any of the provisions contained in this Agreement are for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.
17. For purposes of this Agreement, the terms "Contractor," "Consultant," and "Supplier" are used interchangeably.
18. Consultant agrees that any and all information furnished by City shall be deemed proprietary and confidential. All such information, to the extent previously, presently or subsequently disclosed to Consultant and/or processed and derived by Consultant services is the property of City and such property shall be deemed and treated as "Confidential Information" of City. Consultant acknowledges that such Confidential Information may contain information provided and/or generated by third-parties. Consultant agrees that such Confidential Information shall not be disclosed to any third party without written permission from City, except as required by law. Consultant shall not use the Confidential Information except to perform Consultant's services as directed by City.
19. All facilities, devices, networks and services used to store, deliver, process, backup or purge Confidential Information will employ administrative, physical, technical, and procedural safeguards and best practices at a level sufficient to secure Confidential Information from unauthorized access, destruction, use, modification, or disclosure. Such measures will be no less protective than those used to secure Consultant's own information of a similar type, and in no event less than reasonable in view of the type and nature of the information involved. It is the City's expectation that Consultant, at its own expense, shall perform annual audits for any data centers that house Confidential Information, using an independent third-party audit that meets industry standards applicable to the services under this Agreement, and provide the audit report or certification upon request to City.
20. Consultant will retain Confidential Information until deleted by City or City-authorized third party, or for a time period mutually agreed upon by the parties to this Agreement.
21. Upon termination or expiration of this Agreement, Consultant will ensure that all Confidential Information is securely transferred to City within thirty (30) calendar days. Consultant will ensure that any transfer of Confidential Information is accomplished by methods that are compatible with the relevant City systems, and that City will have access to all Confidential Information during any such transfer. Consultant shall securely dispose of all Confidential Information when requested by City and Consultant will provide written notification to City once all Confidential Information has been securely disposed of.
22. Consultant shall report to City any data compromise or unauthorized access to Confidential Information within twenty-four (24) hours after Consultant discovers such data compromise or unauthorized access. Consultant will take commercially reasonable measures to address any such data compromise or unauthorized access in a timely manner. Except as otherwise required by law, Consultant will not provide notice to end users or other entities of any such data compromise or unauthorized access without written permission from City. Consultant will promptly reimburse City in full for all fees and costs incurred by City in any investigation, remediation or litigation resulting from any such data compromise or unauthorized access, including identity protection and restoration services for each person,

who in the City's sole discretion, could be impacted by identity theft

23. Consultant may not advertise that City is a client, list City as a reference or otherwise use City's name, logos, trademarks, or service marks without prior written permission from City.
24. Consultant acknowledges that services rendered under this agreement (including but not limited to service levels and operational levels) shall be performed in accordance with industry standards.
25. If the project referenced on this Agreement is a Public Works project, then the following shall apply: No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this agreement, Contractor and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
26. If the project referenced on this Agreement is a Public Works project, then the following shall apply: Contractor must submit all claims as defined in and in accordance with the claim resolution process set forth in Section 9204 of the Public Contract Code. Each such claim must be sent to the City by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the claim. All claims must be received prior to acceptance of the work.

The supplier named hereon by the acceptance of this order agrees to the provisions of this document titled "Contract Purchase Agreement" and all accompanying terms, conditions, and attachments.

Roseville Business License No. _____

Contractor License No. _____

DIR Registration No. _____

Check mark the applicable company type below:

_____ Corporation

☒ Limited Liability Company

_____ Partnership

_____ Sole Proprietor

City reserves the right to withhold any payments to Consultant in the event of noncompliance with insurance requirements or if required by law.
Internet Technology T&C
REV 5/09/18 JS

**ATTACHMENT A
HUMAN RESOURCES/RISK MANAGEMENT DIVISION
INSURANCE REQUIREMENTS
AGREEMENT OVER FORMAL BID LIMIT OR INVOLVING HIGH RISK ACTIVITIES**

General - Required Coverage/Documentation

- General Liability: \$1 Million per occurrence /\$2 Million aggregate
- Automobile Liability: \$1 Million combined single limit
- Workers' Compensation: Statutory *Must provide a Waiver of subrogation
- Additional Insured Endorsement (AIE) - General Liability policy: CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsement shall cover the City of Roseville, its officers, agents, employees and volunteers as additional insured.
- Policies must be primary and non-contributory
- A 30 day notice of cancellation must be provided
- List certificate holder as: The City of Roseville - Insurance Compliance, PO Box 100085-R1, Duluth, GA 30096

Additional Liability/Insurance Requirements if required by Agreement (and marked below):

Construction: _____

General Liability:
\$2 Million/occurrence
\$4 Million aggregate

Design Professional: _____

General Liability:
\$2 Million/occurrence
\$4 Million aggregate
Professional Liability:
\$2 Million/occurrence

Professional Consultant: _____

Professional Liability:
\$1 Million/occurrence

IT Services: X _____

Professional Liability:
\$1 Million/occurrence
No auto required

Hazardous Materials: _____

Pollution Liability:
\$1 Million/occurrence

Special Events/Caterers-Vendors: _____

No auto required
No workers' comp required

Professional Counseling/ Psychological: _____

Professional Liability:
\$1 Million/occurrence
No auto required

Pyrotechnics:_____

General Liability:
\$5 Million/occurrence
\$10 Million aggregate
Auto - \$2 Million/occurrence

Chemical/Environmental:_____

General Liability:
\$3 Million/occurrence
\$6 Million aggregate
Pollution – \$2 Million/Occurrence
Auto - \$2 Million/Occurrence

Insurance Submission Process

The City of Roseville Human Resources/Risk Management Department uses a service called EBIX to manage our insurance certificate tracking.

How It Works

- The vendor's contact information is entered into EBIX. EBIX will contact the vendor to request proof of insurance.
- The Vendor can forward the request to their Insurance Agent(s) if necessary.
- Vendor/Insurance Agent submits insurance to EBIX by email to roseville@ebix.com or by fax to (770) 325-5727. After faxing or emailing the certificate, please DO NOT send the certificate by mail to EBIX. Please do not mail, email or fax any certificates to the City of Roseville.
- Once submitted, EBIX reviews the insurance documentation. If there are deficiencies, EBIX will send a follow up letter or email requesting additional information.

Questions Regarding Insurance Submission: Contact EBIX at (951) 652-4239

Questions Regarding Insurance Requirements Contact Risk Management at (916) 774-5202

Supplier	
Signature:	Robert L. Blazek
Print Name:	ROBERT L. BLAZEK
Title:	PRESIDENT + CEO

Supplier	
Signature:	
Print Name:	
Title:	

City of Roseville, A Municipal Corporation	
Signature:	
Print Name:	Dominick Casey
Title:	City Manager



Proposal for: City of Roseville

311 VERNON STREET
Roseville, CA 95678
February 03, .2020

Dear Matthew Donaldson,

Altura Communication Solutions (Altura) is pleased to present City of Roseville the enclosed telecommunications system proposal. After reviewing the information that follows, we trust you will come to know Altura as the unified communications provider best suited to meet all of your telecommunications needs.

Altura, with offices nationwide, is one of Avaya's largest authorized Diamond Business Partners and a leading provider of communications applications, equipment and services for voice and data networking solutions. For nearly two decades, enterprises throughout North America have trusted Altura to design, deploy and manage their communications networks. Altura's vast experience in the industry, top rated service, strategic partnerships and full suite of network services is a significant advantage to customers. We provide solutions to over 6,000 customer sites in government, education, healthcare and financial markets.

Your designated Point of Contact for answering any questions regarding this proposal is:

Scot Morton

Account Manager

(602) 458-4018

smorton@alturacs.com

This proposal to City of Roseville is subject to mutually agreeable Terms and Conditions. Altura proposals contained herein are non-binding. All pricing is for discussion purposes only and subject to change. Final price quote is subject to verification of requirements and configuration.

AVAYA EdgeSM
Diamond

Altura Communication Solutions

1335 South Acacia Ave.
Fullerton CA, 92831



Exhibit A – Order Form

Quote For MASTER SALES AND MAINTENANCE AGREEMENT (Amended 06/06/2016) ("Agreement") by and between Altura Communication Solutions, LLC and **City of Roseville** ('Customer')

PREMISES (INSTALLED AT):

City of Roseville

311 VERNON STREET
Roseville, CA 95678

Matthew Donaldson
(916) 774-5405
mdonaldson@roseville.ca.us

SERVICES PERFORMED FOR:

City of Roseville

311 VERNON STREET
Roseville, CA 95678

Matthew Donaldson
(916) 774-5405
mdonaldson@roseville.ca.us

PRICING & DATES

Purchase Price * \$0.00
Support Paid Up-Front \$97,186.68
TOTAL \$97,186.68
Support to be billed \$0.00

Contract Presented February 03, 2020

Delivery * TBD
Installation Start * TBD
Cutover * TBD
In Service * TBD

** Including installation and shipping if applicable, but excluding taxes*

** Estimated*

ATTACHMENTS

- Coverpage
- Exhibit A, Exhibit B and Schedule 1
- Support Details
- **Avaya GSA Pricing Schedule Contract# GS-35F-0156V**
- **Altura GSA Pricing Schedule Contract # GS-35F-0666W**

Upon execution by both parties, this Order Form shall be incorporated into the Agreement.

Altura Communication Solutions, LLC

City of Roseville

By

By

Name Altura Contract Administration
Title Director of Contract Administration
Date

Name
Title
Date

Schedule 1 – Quote & Exhibit B

This quote is only good for 90 days, effective: 02/01/2020.

Vendor	Description	Sale Price
Altura	Advantage PP	\$10,656.00
Avaya	Avaya Support PP	\$86,530.68
	SUPPORT Paid Up-Front	\$97,186.68
	SUPPORT TOTAL	\$97,186.68
	TOTAL At Time of Sale	\$97,186.68
	GRAND SOLUTION TOTAL	\$97,186.68

		All Pricing Excluding Taxes
100.00%	Down Payment	\$97,186.68

Support Details

Part #	Description	Term	QTY	Location	Unit Sale	Sale Price
239005	AVAYA SA ESS ONE-X AGT R2 AGENT 1YPP	12 months	1	311 Vernon Street	\$2.22	\$26.64
239017	AVAYA UPG ADV ONE-X AGT R2 AGENT 1YPP	12 months	1	311 Vernon Street	\$2.42	\$29.04
240500J	AVAYA SA ESS C/D AES R6 BSC TSAPI 1YPP	12 months	130	311 Vernon Street	\$0.20	\$312.00
240630J	AVAYA SA ESS C/D AES R6 DMCC BASIC 1YPP	12 months	40	311 Vernon Street	\$0.20	\$96.00
248554	AVAYA UPG ADV AES R6 BSC TSAPI 1YPP	12 months	130	311 Vernon Street	\$0.21	\$327.60
248614	AVAYA UPG ADV AES R6 DMCC FULL 1YPP	12 months	40	311 Vernon Street	\$1.29	\$619.20
292604J	AVAYA SA PREFER SUPT AURA R7 CORE SUITE 1YR	12 months	1900	311 Vernon Street	\$2.15	\$49,020.00
292611	AVAYA UPGRADE ADVANTAGE AURA R7 CORE SUITE 1YR	12 months	1900	311 Vernon Street	\$1.22	\$27,816.00
284959J	AVAYA SA PREF C/D DS R2 SAL GTWY VIRTUAL	12 months	1	311 Vernon Street	\$0.00	\$0.00
284960	AVAYA UPG ADV DS R2 SAL GTWY VIRTUAL	12 months	1	311 Vernon Street	\$0.00	\$0.00
291727J	AVAYA SA PREF C/D CC R7 ELITE AGT 1YPP	12 months	50	311 Vernon Street	\$5.22	\$3,132.00
291734	AVAYA UPG ADV CC R7 ELITE AGT 1YPP	12 months	50	311 Vernon Street	\$3.08	\$1,848.00
293108	AVAYA SA PREF CMS R18 AGT 1-250 1YPP	12 months	50	311 Vernon Street	\$1.89	\$1,134.00
293114	AVAYA UPG ADV CMS R18 AGT 1-250 1YPP	12 months	50	311 Vernon Street	\$3.08	\$1,848.00
293198	AVAYA SA PREF CMS R18 SUPERVISOR 1YPP	12 months	5	311 Vernon Street	\$5.37	\$322.20
293210	AVAYA SA PREF CMS R18 INITIAL ACD 1YPP	12 months	1	311 Vernon Street	\$0.00	\$0.00
295201J	AVAYA SA PREF C/D UPG AURA R7 TRK	12 months	1	311 Vernon Street	\$0.00	\$0.00
				Avaya Support PP		\$86,530.68
				AVAYA SUPPORT TOTAL		\$86,530.68
AA	Altura AA H/W Core switch excluding phone sets	12 months	1900	311 Vernon Street	\$0.42	\$9,576.00
AA AES 85	Altura AVAYA AES Server Hardware	12 months	1	311 Vernon Street	\$90.00	\$1,080.00
				Altura Advantage PP		\$10,656.00
				ALTURA ADVANTAGE TOTAL		\$10,656.00

AN = Annual Payment

PP = Prepaid Payment

The End Customer may terminate their Avaya Support Advantage Services at any time during the current term upon at least 30 days written notice and shall be subject to payment of: (i) Support Advantage charges up to and including the date of termination, and (ii) cancellation fees. Cancellation fees shall be equal to the greater of Support Advantage charges that would otherwise be payable for the affected Support Advantage coverage for the remainder of the year of the Term in effect as of the effective date of the termination OR, 50% of the remainder of the Term in effect as of the effective date of the termination. The parties agree that the cancellation fees are liquidated damages comprising a reasonable estimate of Avaya's damages in the event of the Customer's early termination and are not a penalty. Unless already paid, the cancellation fees shall be immediately due and payable upon cancellation.

Maintenance Start Date

03/01/2020

RESOLUTION NO. 16-274

APPROVING A MASTER SALES AND MAINTENANCE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ALTURA COMMUNICATION SOLUTIONS, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a master sales and maintenance agreement (amended 06/06/16) for the telephone system update, by and between the City of Roseville and Altura Communication Solutions, LLC, has been reviewed by the City Council; and

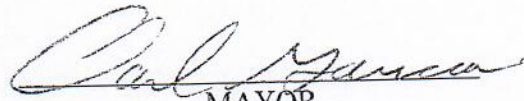
NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said agreement is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville; and

PASSED AND ADOPTED by the Council of the City of Roseville this 15th day of June, 2016, by the following vote on roll call:

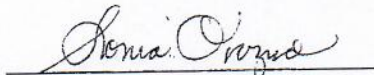
AYES COUNCILMEMBERS: Gore, Rohan, Herman, Roccucci, Garcia

NOES COUNCILMEMBERS: None

ABSENT COUNCILMEMBERS: None


MAYOR

ATTEST:


City Clerk



A Platinum Equity Company

Master Sales and Maintenance Agreement (Amended 06/06/16)

THIS MASTER SALES AND MAINTENANCE AGREEMENT ("Agreement") is made this 1st of March, 2006, ("Effective Date") by and between Altura Communication Solutions, LLC, a Delaware limited liability company ("Altura"), and City of Roseville, a ("Customer"). The parties agree as follows:

- 1. SYSTEM AND MAINTENANCE SERVICES.** This Agreement governs Customer's orders for (i) purchase and installation of telecommunications equipment ("Equipment") and/or licensed software ("Software") (collectively, the "System"), (ii) maintenance services during the Warranty Period (as defined below) ("Warranty Maintenance Services"), (iii) maintenance services after the Warranty Period ("Post-Warranty Maintenance Services"), and/or (iv) other related services, at a single location or multiple locations (the "Premises"). Each order shall be set forth on an order form (the "Order Form") in the form attached to this Agreement as Exhibit A and attached hereto.
- 2. TERM.** The term of this Agreement shall commence on the Effective Date and will end, except as otherwise provided herein, upon expiration of the later of the Warranty Period and any Post-Warranty Maintenance Term (as defined below) hereunder (the "Term").
- 3. AGREEMENT.** This Agreement incorporates the General Terms and Conditions attached hereto and any Exhibit, Schedule and/or Scope of Work executed by the parties and attached hereto. Except as set forth on the front page of this Agreement, all capitalized terms shall have the meanings set forth in the General Terms and Conditions.
- 4. NOTICES.** Notices shall be in writing and will be deemed given when delivered in person, or when sent via facsimile, overnight courier, or when mailed by certified mail (return receipt requested) to the addresses set forth below. The parties shall notify each other of any changes of address.

If to Altura: Altura Communication Solutions, LLC
2890 East White Star Avenue 1335 S. Acacia Ave.
Anaheim, CA 92806 Fullerton, CA 92831
Attention: ~~Gary Dunavan~~ David Key
Facsimile No.: ~~(714) 948-8630~~ (714) 948-8632

If to Customer: City of Roseville
401 Oak Street
Roseville, CA 95678
Attention:
Facsimile No.:

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives as of the Effective Date. This Agreement shall not constitute a binding contract unless and until executed by an authorized representative of Altura.

ALTURA COMMUNICATION SOLUTIONS, LLC	CUSTOMER: City of Roseville
BY:	BY:
NAME: GARY DUNAVAN	NAME: W. CRAIG ROBINSON
TITLE: DIRECTOR	TITLE: CITY MANAGER
DATE: 3/7/2006	DATE: 3/13/06

AMENDED 06/06/16

ALTURA COMMUNICATION SOLUTIONS, LLC	CUSTOMER: City of Roseville
BY:	BY:
NAME: DAVID L. KEY	NAME: Rob Jensen
TITLE: CHIEF FINANCIAL OFFICER	TITLE: City Manager
DATE: 6/6/16	DATE: June 16, 2016



A Platinum Equity Company

GENERAL TERMS AND CONDITIONS

5. PRICE AND PAYMENT TERMS

(a) **Sale; Payment.** The total purchase price of the System excluding taxes (the "Purchase Price") is set forth on the Order Form. Unless otherwise indicated, the Purchase Price includes costs of shipping and installation. If Customer is purchasing a System or part thereof, Customer shall pay (i) 30% of the Purchase Price upon execution of this Agreement, (ii) 60% of the Purchase Price on the date of Delivery or the date Customer notifies Altura of Customer's desire to delay Delivery, and (iii) 10% of the Purchase Price on the date of Acceptance (as defined below).

(b) **Lease; Payment.** If Customer elects to enter into a lease arrangement rather than a direct purchase from Altura, Customer shall enter into a binding agreement (the "Lease") satisfactory to Altura with a leasing company or other financial institution ("Lessor") satisfactory to Altura providing for a lease of the Equipment by Customer from Lessor. Altura shall reasonably cooperate with Customer in arranging for such Lease; however, Altura shall have no liability if such Lease is not obtained, nor shall Altura have any liability under the Lease. Upon execution by Customer of this Agreement, Customer shall deposit with Altura 30% of the Purchase Price as a deposit ("Deposit"). Upon the effective date of the Lease and upon receipt of a purchase order from Lessor for the Equipment, in form satisfactory to Altura, Altura will credit the Deposit to Customer's account with Lessor. Altura shall not be required to commence the shipment or installation of the Equipment until Altura has received the purchase order, a copy of the Lease executed by Customer and Lessor, and the Deposit. The date of Cutover will be extended accordingly in the event of a delay in receiving the purchase order, executed Lease or Deposit. In the event Customer is unable to secure a lease within sixty (60) days of signing this Agreement, or at least sixty (60) days prior to the scheduled installation date if earlier, the applicable order will be canceled and Customer will reimburse Altura for any out-of-pocket costs and expenses incurred by Altura with respect to this Agreement.

(c) **Sales and Use Taxes.** (i) Altura will collect sales and/or use tax from Customer on the total amount of Purchase Price, Service Fee (as defined below) and shipping charges based on the tax laws and tax rates in effect in the state to which the System is shipped or in which the Warranty Maintenance Services and Post-Warranty Maintenance Services (collectively, the "Maintenance Services") are performed, unless: (A) Customer provides a tax exemption or resale certificate for the state(s) to which the System is shipped or in which the Maintenance Services are performed; or (B) Customer demonstrates that no sales or use tax is due on the Service Fee in the locale in which services are performed. (ii) If sales or use taxes are not invoiced or collected, and it is later determined that sales or use taxes apply, Customer agrees to pay such taxes, with any interest or penalties.

(d) **Other Payment Terms.** All charges are due and payable as indicated in this Agreement. Past due amounts bear interest at a rate of 1.5% per month or the maximum permitted by law. "Delivery" is defined as on-site delivery of the main processor at the Premises. "Cutover" occurs when a System is connected to the network, activated and functioning to provide basic service, excepting minor variances in performance of the System that do not materially impair basic service. All stated dates for Delivery, installation and Cutover are approximate and Altura shall not be liable for any loss, damage or expenses arising from delays in Delivery, installation or Cutover. No payment by Customer or receipt by Altura of a lesser amount of the Purchase Price or any other sum hereunder, shall be deemed to be anything other than payment and/or receipt on account of the Purchase Price schedule above, nor shall any endorsement or statement on any check or any letter accompanying such check or payment be deemed an accord and satisfaction. Altura may accept such check or payment without prejudice to Altura's right to recover the balance of the Purchase Price or pursue any other remedy available under this Agreement at law or in equity. Customer shall not be relieved of its payment obligations due to the failure of Lessor or any third party to make timely payments.

6. **ACCEPTANCE.** After Altura installs a System, Altura shall test the System in accordance with the manufacturer's diagnostic and readiness test specifications. The System will be deemed accepted by Customer after it has been Cutover and has operated in accordance with the manufacturer's specifications and the scope of work ("Acceptance"). Customer will, upon Acceptance, promptly execute an In-Service Certificate. If a System is installed in phases, Altura may request a separate written In-Service Certificate for each phase. If Customer has entered into a Lease and Acceptance has occurred, upon request by Altura and/or Lessor, Customer shall execute a Delivery and Acceptance Notice ("D&A Notice"). If Customer fails and/or refuses to execute a D&A Notice, notwithstanding anything to the contrary set forth herein or in the Lease, Customer shall be liable to Altura for the full Purchase Price of the System which shall be due and payable immediately.

7. **ORDERING PROCEDURES.** The purchase of any Equipment, Software and/or Maintenance Services (excluding Modifications as set forth in Section 8 below) is subject to the following procedures:

(a) Upon Customer's request, by purchase order or otherwise, Altura will prepare and remit to Customer an Order Form for each new System or Maintenance Service.
(b) Customer shall notify Altura of its acceptance or rejection of Altura's quote within thirty (30) days of Customer's receipt of the Order Form by signing the Order Form and returning it to Altura. Altura's quote will expire if Customer fails to return the Order Form within the thirty (30) day period. Any additional terms on the executed Order Form shall be construed as proposals for addition to the contract and will not become part of the Agreement unless Altura expressly indicates its assent thereto.

(c) Altura shall acknowledge acceptance of Customer's order by signing and returning the Order Form to Customer with, if applicable, indication that Altura has agreed to be bound by any additional terms proposed by Customer. Altura's failure to return the executed Order Form to Customer shall indicate rejection of the order. All Order Forms executed by both parties are deemed incorporated into this Agreement.

(d) Unless expressly accepted by both parties in writing, no terms on any Customer-issued purchase order or other Customer-issued ordering documentation shall be binding upon Altura or become a part of this Agreement. This Agreement shall govern any Lease, security agreement, Customer-issued purchase order, or other agreement. No additional terms shall be binding unless agreed upon by both parties in writing.

(e) A schedule ("Schedule") and/or scope of work ("Scope of Work") may be attached to the Order Form. Any Schedule and/or Scope of Work attached to an Order Form shall be deemed incorporated into this Agreement provided that both parties mutually agree upon and execute the Schedule and/or Scope of Work.

8. CHANGES, CLAIMS, RETURNS AND CANCELLATIONS

(a) **Changes.** Upon Customer's request, by purchase order or otherwise, Altura shall perform moves, adds, changes, or deletions to a System ("Modifications") pursuant to an executed Sales Change Notice ("SCN") before Cutover, or a Moves, Adds or Changes Order ("MAC") after Cutover. All executed SCNs and/or MACs shall be deemed incorporated into this Agreement. Changes to the Equipment will result in added charges to be paid by Customer promptly upon receipt of an invoice for such additional charges. Cumulative delays requested by Customer of more than twenty (20) days may result in increased associated labor and material costs, plus increases instituted by Altura and any applicable equipment shortage and carrying charges.

(b) **Claims.** Altura will not accept Customer claims of shortages, discrepancies or damage to Equipment Altura does not install unless Customer notifies Altura of such claims in writing within fourteen (14) calendar days of Delivery.

(c) **Returns.** Altura will only accept return of Equipment which reflects a Return Merchandise Authorization ("RMA") number, is in its original packaging, and is in

the same condition as delivered, ordinary wear and tear excepted. Altura shall charge a restocking fee for Equipment returns unless the Equipment is defective, delivered in error, or delivered pursuant to a SCN issued by Altura. The parties agree that Altura may reject any return or exchange request that does not strictly comply with Altura's return procedures.

(d) **Cancellations.** If Customer cancels an order for Equipment and/or Software in whole or in part, Customer shall pay Altura (i) all reasonable costs and expenses for Equipment, material and labor incurred in connection with Altura's preparation for or actual performance pursuant to an order, and (ii) as liquidated damages and as a reasonable estimate of Altura's lost profits, and not as a penalty, 20% of the Purchase Price.

9. RISK OF LOSS, TITLE AND SECURITY INTEREST.

(a) **Risk of Loss.** Customer assumes the risk of loss with respect to each piece of Equipment from the date such piece of Equipment is delivered to the Premises. Customer shall maintain insurance for the full insurable value of the System in an amount equal to the unpaid balance of the Purchase Price and shall name Altura as an additional insured under its policy.

(b) **Transfer of Title.** Title shall pass to Customer upon payment in full of the Purchase Price plus taxes. Title to all parts used to repair the Equipment shall remain in Altura until installed and all parts removed and/or replaced in providing the Maintenance Services shall become the property of Altura.

(c) **Security Interest.** Customer grants Altura a purchase money security interest in the Equipment to the extent of any unpaid balance of the Purchase Price and taxes. Customer agrees to execute such documents as Altura may reasonably require to perfect its security interest in the Equipment. Until title passes to Customer, Customer will not create, assume or suffer to exist any security interest, lien or encumbrance upon the Equipment ranking equal to or above Altura's security interest in the Equipment nor will Customer sell, lease dispose of or remove the Equipment from the Premises.

10. CUSTOMER'S RESPONSIBILITIES.

(a) Customer shall (i) permit full access to the Premises for Altura to perform services pursuant to this Agreement including periodic maintenance inspections; (ii) permit Altura to access the System remotely by installing and maintaining a dedicated outside central office telephone line connected to the System; (iii) maintain the Equipment in a clean, ventilated room free of non-communications equipment and material and the temperature and humidity shall be maintained within the manufacturer's specified operating ranges; (iv) provide a lockable door to the equipment room; (v) limit access to equipment room to authorized personnel only; (vi) provide first level fault isolation and, if possible, resolution; and (vii) operate the System strictly in the manner prescribed by Altura and will not move, alter or permit the alteration of any of the Equipment or Software without the prior written consent of Altura. Altura will invoice Customer at its then current time and materials rate for any expenses related to delays resulting from conditions at the Premises which preclude Altura's performance.

(b) Customer represents and warrants that the Premises shall: (i) be in compliance with all applicable federal, state and local laws, rules and regulations; (ii) be safe and non-hazardous; and (iii) not contain, present, or expose Altura technicians to hazardous materials or substances. If Customer breaches this Section 10, Altura may immediately suspend performance until Customer has corrected such condition(s). If Customer does not correct such condition(s), Altura may elect, at its sole discretion, to recommence performance or terminate the Order with respect to such Premises without liability.

(c) If Customer requests an upgrade to an existing system not maintained by Altura under a current agreement, Altura may require, at Customer's expense, that the existing system be brought into compliance with the manufacturer's specifications before installing the upgrade. Altura will invoice Customer at its then current time and materials rate, and Customer agrees to pay Altura, to inspect the existing system and, upon Customer's request, bring the system into compliance with the manufacturer's specifications.

11. LIMITATION OF LIABILITY.

(a) IN NO EVENT SHALL ALTURA, ITS SUPPLIERS OR SUBCONTRACTORS BE LIABLE FOR: (i) ANY INDIRECT, INCIDENTAL, SPECIAL, OR EXEMPLARY DAMAGES; (ii) CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, COMMERCIAL LOSS OF ANY KIND INCLUDING, WITHOUT LIMITATION, LOSS OF BUSINESS, GOODWILL, PROFITS, REVENUE OR SAVINGS, LOSS OF DATA OR MESSAGES, OR (iii) ANY DAMAGES OF ANY KIND RESULTING FROM UNAUTHORIZED USE OF OR INTRUSION INTO THE SYSTEM, INCLUDING TOLL FRAUD. THIS PROVISION APPLIES TO ALL CLAIMS WHETHER BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR ANY OTHER LEGAL THEORY, AND REGARDLESS OF WHETHER ALTURA, ITS SUPPLIERS OR ITS SUBCONTRACTORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALTURA'S LIABILITY FOR LOSS OR DAMAGES RELATED TO THE SALES AND INSTALLATION OF THE EQUIPMENT SHALL NOT EXCEED THE PRICE PAID FOR THE PARTICULAR ITEM OF EQUIPMENT REGARDLESS OF THE FORM OF ANY CLAIM, WHETHER IN CONTRACT, TORT, NEGLIGENCE OR UNDER THE U.C.C., OR UNDER ANY OTHER THEORY IN LAW OR EQUITY. ALTURA'S SOLE LIABILITY RELATED TO THE PROVISION OF MAINTENANCE SERVICES BY ALTURA HEREUNDER SHALL BE LIMITED TO THE COSTS ASSOCIATED WITH THE REPERFORMANCE OF WORK, REPAIRS, ADJUSTMENTS, OR ANY COMBINATION THEREOF, AND/OR THE COST OF MATERIAL PROVIDED SUCH AS REPLACEMENT PARTS.

ALTURA SHALL HAVE NO LIABILITY RESULTING FROM USE OF THE EQUIPMENT IN CONJUNCTION WITH LIFE SUPPORT DEVICES, MEDICAL DEVICES, NATIONAL DEFENSE, PUBLIC TRANSPORTATION, AVIATION, OR OTHER CRITICAL USES WHICH MAY SUBJECT THE PUBLIC TO HARM.

ALTURA SHALL NOT BE RESPONSIBLE FOR FAILURE TO PROVIDE SERVICE HEREUNDER (i) AT LOCATIONS DEEMED HAZARDOUS TO THE HEALTH OR SAFETY OF ALTURA'S EMPLOYEES OR AGENTS, OR (ii) WHERE SUCH FAILURE RESULTS FROM CAUSES BEYOND THE REASONABLE CONTROL OF ALTURA, INCLUDING, BUT NOT LIMITED TO EVENTS OF FORCE MAJEURE AS SET FORTH HEREIN AND ACTS OR OMISSIONS OF CUSTOMER, SUBCONTRACTORS OR SUPPLIERS. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALTURA AND ITS AGENTS SHALL HAVE NO LIABILITY FOR DAMAGES ARISING FROM MANUFACTURING, DESIGN OR INSTALLATION DEFECT OF EQUIPMENT OR UNAUTHORIZED USE OF CUSTOMER'S SYSTEM BY PERSONS OTHER THAN EMPLOYEES OF ALTURA OR ITS AGENTS. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL ALTURA BE LIABLE TO CUSTOMER FOR ANY DAMAGES ARISING FROM OR RELATED TO FAILURE OR INTERRUPTION OF SOFTWARE PRODUCT(S).

(b) Altura shall be liable for any physical damage it causes to the System or its components; such liability is limited to Altura's repair of the System or component, or if the System or component cannot be repaired, replacement with a comparable System or component.

12. SOFTWARE LICENSE.

(a) **General.** All Software licensed hereunder is proprietary and confidential, having been developed by or for Altura or a third party provider. All such software and all copies or modifications thereof are or shall become the property of Altura or its third party provider. Only one right of use of the Software is being licensed herein. Each piece of Software is licensed to Customer solely for Customer's use only with the specific piece of Equipment to which it relates. Customer shall ensure that anyone who uses the Software does so only in compliance with the terms of this Agreement. Customer shall not reverse engineer or decompile any of the Software. Customer shall use such Software only as stated herein, shall not use the Software with any other equipment item and shall not disclose or transfer the Software, or any part of it, to any other party except with the express written permission of Altura, which permission to transfer may be granted by the specific software license furnished with or for the Equipment herein if applicable provided the transferee agrees in writing to be bound by these provisions. This Software protection will be supplemented by the provisions of any software license furnished with or for the Equipment.

(b) **Grant of License.** Customer is granted a Software license directly from Avaya, Inc. ("Avaya") and/or the manufacturer pursuant to the terms of this Agreement and/or the software license agreement attached to this Agreement, the Order Form or delivered with the Equipment. Any such license agreement shall be deemed

incorporated into this Agreement and shall exclusively and independently govern the licensing of such Software; provided, however, Customer acknowledges and agrees: (i) to be bound by the terms of any software license agreement of Avaya and/or any third party provider in connection with Equipment manufactured and/or provided by or through Avaya; (ii) that Avaya shall be a third party beneficiary of the license(s) granted to Customer by or through Avaya; (iii) that Avaya may enforce its rights directly against Customer for any breach thereof; (iv) that Altura or Avaya may cancel any license to Customer for failure to comply with any provision of any software license agreement provided in connection with Equipment manufactured and/or provided by or through Avaya; and (v) not to modify any Software provided in connection with Equipment manufactured and/or provided by or through Avaya in order to verify compliance with the license(s) via remote access) the system configuration containing the Equipment manufactured and/or provided by or through Avaya in order to verify compliance with the license(s) granted to Customer, provided that such audit shall be conducted at the time of enablement of any separately licensed feature or incremental unit of capacity and at other times selected by Avaya which, except in the event of emergencies or suspected violations, shall not be more than once per calendar year upon at least two (2) business days' notice. In addition to the Software license granted by Avaya, Altura grants Customer a non-exclusive, non-transferable, limited license to use the Software only in the System for its useful life, provided Customer: (i) does not disclose information about the Software to a third party without Altura's prior written consent; (ii) uses the System solely for Customer's internal business purposes; (iii) does not copy any part of the Software without Altura's consent, (iv) does not attempt to develop any source code from the Software; and (v) returns, erases or destroys any Software on any media being recycled or discarded and so certifies to Altura. Subject to Section 22(b) hereof and the payment of a right-to-use fee, Customer may transfer the right to use the Software to an end user who acquires the right to use the System and agrees to be bound by the terms of this license.

(c) **Copies.** If the Software contains documentation that is provided only in electronic form, then Customer is authorized to print only one copy of the documentation per licensed copy of the Software program. If the Software is provided as a program upgrade, then authorization to use the Software from which Customer is being upgraded shall be limited to use in connection with the upgrade, and shall be limited to the total number of Customer's authorized or licensed copies of the Software.

(d) **Restricted Rights.** The Software and related documentation is provided to the United States Government ("Government") with RESTRICTED RIGHTS. Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph c)(1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013 or subparagraphs c)(1) and (2) of the Commercial Computer Software- Restricted Rights at 48 CFR 52.227-19, as applicable. Distributor is Altura Communication Solutions, LLC, 2890 E. White Star Ave, Anaheim, CA 92806, or its licensor.

(e) **Export.** Customer agrees not to export or re-export directly or indirectly any Software (including source code), technology, or direct products of Software or technology to any countries or nationals of any countries except in compliance with the U.S. Export Administration Regulations. In conjunction therewith, and in conformity with the United States Export Administration Act and regulations promulgated thereunder, Customer represents and warrants that Customer shall not disclose, export or re-export, directly or indirectly, any Equipment or technical data (or direct products thereof) provided under this Agreement to destinations in Country Groups Q, S, W, Y and Z as modified from time to time by the U.S. Department of Commerce, or that are otherwise controlled under said Act and regulations. Without limiting the foregoing, Customer shall comply with all applicable export control, import control and trade embargo laws, rules and regulations, whether foreign or domestic. Customer shall not resell, export, import, re-export, distribute, transfer or dispose of Equipment or technical data, directly or indirectly, without first obtaining all necessary written consents, permits and authorizations and completing such formalities as may be required by any such laws, rules and regulations. Failure by Customer to comply with such laws, rules and regulations shall constitute a material breach of this Agreement which is incapable of being cured. Customer shall ensure that its employees, agents, partners, customers, and the like also comply with such laws, rules and regulations. Customer shall not do anything which would cause Altura, or its suppliers or licensors to be in breach of such laws, rules and regulations, and shall protect, indemnify and hold harmless Altura and its suppliers and licensors from any fines, damages, costs, losses, liabilities, penalties and expenses incurred by Altura or its affiliates, suppliers or licensors as a result of the errors, mistakes, failures or omissions of Customer, or any third party under agreement with Customer, including without limitation any failure by Customer to comply with these terms and conditions.

(f) **Breach of License.** Customer acknowledges that the Software is proprietary and confidential, and is the property of Altura or a third party licensor. Notwithstanding any other provision of this Agreement, Customer's failure to comply with the terms of this Section 12 shall be deemed a material breach of this Agreement. Accordingly, Altura shall be entitled to immediately terminate this Agreement and all of Customer's rights and privileges to the Software, and to obtain injunctive and other relief as necessary to protect Altura from any potential damage resulting from such breach.

13. LIMITED WARRANTY.

(a) Altura warrants that (i) the Equipment it installs will be free from defects in materials and workmanship and will operate in accordance with manufacturer's specifications for one (1) year after Cutover (the "Equipment Warranty Period"); and (ii) the Software provided with the Equipment will conform in all material respects to the applicable software specifications for ninety (90) days from Cutover (the "Software Warranty Period," together with the Equipment Warranty Period, the "Warranty Period"); provided, however, that if Cutover is delayed by more than thirty (30) days due to Customer's acts or omissions, the Warranty Period shall be reduced by such number of days in excess of thirty (30) calendar days. Notwithstanding the foregoing, with respect to Equipment and/or Software used in an upgrade to an existing System or Equipment and/or Software installed after Cutover arising out of the performance of Maintenance Services or authorized Modifications, the Warranty Period for such Equipment and/or Software shall terminate upon the later of the expiration of the applicable Warranty Period for the existing Equipment and/or Software and ninety (90) days after installation.

(b) Exclusions.

(i) The warranty provided herein applies only to Equipment and Software sold or leased pursuant to the terms of this Agreement and does not apply to other Equipment or Software, including, without limitation, rented Equipment or Equipment that is the subject of a shared maintenance arrangement.

(ii) Customer's SOLE AND EXCLUSIVE REMEDY for breach of any warranty is limited to the remedies in Section 14 below. Altura's liability terminates at the end of the applicable Warranty Period or the Post-Warranty Maintenance Term, if applicable, including liability for any manufacturing defects that Customer did not discover within the Warranty Period. If, however, it is determined that such remedy fails of its essential purpose, then Altura's entire liability is limited to Altura's payment of Customer's actual damages in an amount not to exceed the portion of the Purchase Price allocable to the Equipment related to the claim, less a reasonable amount for its use. Except as set forth above, Maintenance Services provided during the Warranty Period will not extend or restart the Warranty Period.

(iii) Altura does not warrant that the Equipment will run uninterrupted or error-free.

(iv) The foregoing warranty shall be void if the System has been subject to: (A) damage caused by Force Majeure conditions; (B) Customer's failure to follow operational, maintenance, or environmental requirements described in the manufacturer's manuals or product bulletins, or Altura manuals and other documentation; (C) Customer's or third party's additions, alterations, modifications, enhancements, repairs or disassembly without Altura's written consent; (D) Customer's or third party's mishandling, abuse, misuse, negligence or damage; (E) relocation without Altura's written consent (other than telephone instruments relocated in accordance with the manufacturer's specifications); (F) Customer's failure to promptly advise Altura of a malfunction which delay exacerbates the malfunction; (G) operation beyond the System's design range or improper testing; (H) failures or changes required by the local exchange company interexchange carrier, the power company or the transmission providers; and/or (I) malfunctions of third party equipment including batteries and auxiliary equipment and equipment owned by the public telephone network.

(v) The above limited warranty does not extend to, and Altura does not warrant, products or Equipment normally consumed in operation or which have a normal life shorter than twelve (12) months. With respect to such products or Equipment, Altura conveys to Customer the warranty, if any, of Altura's supplier, to the extent that such warranty can be conveyed.

(vi) Although the Equipment is designed to be reasonably secure, Altura makes no express or implied warranty that Equipment is immune from or will prevent fraudulent intrusion, unauthorized use or disclosure or loss of proprietary information. When enabled, certain Software features, including silent monitoring features, could be used improperly in violation of privacy laws. Altura prohibits the use of Software in any improper manner or for any illegal use. Notwithstanding anything

contained in this Agreement to the contrary, Altura shall not be liable for any improper or unlawful use of such features and Customer shall indemnify, defend and hold Altura harmless from any losses, claims, liabilities or damages to the extent due to any improper or illegal use of the System or any of its components by or for Customer.

(vii) **THE WARRANTIES PROVIDED BY THIS SECTION 13 ARE IN LIEU OF ALL OTHER EXPRESS WARRANTIES AND IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. ALTURA DISCLAIMS ANY WARRANTY TO PREVENT UNAUTHORIZED USE OF OR INTRUSION INTO THE SYSTEM INCLUDING TOLL FRAUD.**

14. WARRANTY MAINTENANCE SERVICES AND POST-WARRANTY MAINTENANCE SERVICES.

(a) **Level of Service.** Subject to the terms of this Agreement, during the Term, Altura shall maintain the System in good operating condition in accordance with generally accepted telephone industry standards. Altura shall provide Customer with Standard Services, as set forth in subsection (b) of this Section 14 ("Standard Services"). In addition, Customer may elect enhanced optional coverage ("Optional Coverage"), as set forth in subsection (c) of this Section 14 by so indicating on the Order Form. During the Warranty Period, Altura shall provide Standard Services at no extra charge to Customer. If Customer elects to receive Post-Warranty Maintenance Services, Altura shall provide and Customer agrees to pay for Standard Services at the rate set forth on the Order Form during the period of time selected (the "Post-Warranty Maintenance Term"). If Customer elects to receive Optional Coverage, Altura shall provide and Customer agrees to pay for such Optional Coverage at the rate set forth on the Order Form.

(b) **Standard Services.** For a major System malfunction resulting in total System failure, failure of a console or application processor, or failure of 10% or more of a System's trunks or stations ("Major System Malfunction"), Altura will endeavor to respond to service requests remotely or on-site within four (4) business hours of receipt of notice from Customer, between 8 a.m. and 5 p.m. local time, Monday through Friday including Altura Observed Holidays (as defined below). All other malfunctions are classified as non-emergency. Altura will endeavor to respond to non-emergency service requests within one business day of receipt of notice from Customer, except when the request is made on or the day before a weekend day or an Altura Observed Holiday, in which case Altura will respond by the next business day. At Customer's request, Altura will use commercially reasonable efforts to perform emergency and non-emergency services outside normal working hours, subject to manpower availability at Altura's then current rates. In performing the Maintenance Services, provided that the malfunction can be reproduced or verified, Altura will, at its option and expense, repair a System at the Premises, or accept return of System components for repair or replacement provided that maintenance of Software shall be limited to the database of the System and shall not include maintaining generic or operating software included in the Software other than normal reloading. Repair and replacement parts may be new or reconditioned to be the functional equivalent of new. Altura Observed Holidays shall mean New Year's Day, Good Friday, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, the day after Thanksgiving Day, Christmas Eve Day, Christmas and New Year's Eve Day, and shall not be considered business days. Customer agrees to execute Altura's form of Field Service Report for all Maintenance Services provided hereunder.

(c) **Optional Coverage.** Customer may elect to receive one or more of the following Optional Coverages by so indicating on the Order Form: (i) Standard Services but provided twenty-four (24) hours per day, seven days per week including Altura Observed Holidays ("24x7 Coverage"); and/or (ii) Standard Services but provided with a two (2) hour response time for Major System Malfunctions ("2 Hour Coverage"); or (iii) Standard Services but provided twenty-four (24) hours per day, seven days per week including Altura Observed Holidays for the Warranty Period with a two (2) hour response time for Major System Malfunctions for the Warranty Period and Post-Warranty Maintenance Term ("Value Plus Maintenance"). Payment for any Optional Coverage shall be due together with the Purchase Price and any Service Fee, as applicable.

(d) **Additional Services.** Notwithstanding the foregoing, the following services ("Additional Services") shall not constitute Standard Services and, subject to availability will be provided at Altura's then current rates: (i) furnishing expendables and supplies (platens, ribbons, thermal print elements, tape cartridges, batteries, etc.); (ii) repairs not attributable to normal wear and tear; (iii) non-emergency services (including maintenance inspections) outside of normal working hours; (iv) services provided outside a fifty (50) mile radius of the local service center; (v) Modifications and upgrades; (vi) electrical work external to the System; (vii) service which is impractical for Altura to render because of Equipment alterations or its connection to other devices, or because of alterations to operating systems; (viii) systems engineering services, programming, and operations procedures of any sort; and (ix) upon thirty (30) days prior written notice, relocation, removal, rearrangement and/or similar services within a fifty (50) mile radius of the local service center. Payment for Additional Services shall be due and payable upon receipt of invoice from Altura. Customer waives its right to claim that Maintenance Services requested hereunder were requested and/or approved by an unauthorized employee or agent.

(e) If Customer orders an upgrade to an existing system, then "System" shall mean "the existing system as upgraded by the System" for purposes of this Agreement.

15. POST-WARRANTY MAINTENANCE TERM; SERVICE FEE.

(a) Altura shall provide Post-Warranty Maintenance Services on Equipment for one (1) year from the day after the Warranty Period expires or no Post-Warranty Maintenance Services or another term, as indicated on the Order Form (such one (1) year term or other term to be referred to as the "Initial Term"). Maintenance parts are furnished on an exchange basis. The replaced parts become the property of Altura.

(b) At the end of the Initial Term, unless otherwise agreed, the Post-Warranty Maintenance Term shall automatically renew in successive annual periods at Altura's then current rate unless Customer or Altura declines such renewal in writing at least forty-five (45) days before the end of the Initial Term.

(c) The fee for Post-Warranty Maintenance Services is set forth on the Order Form ("Service Fee"). Customer may elect to be billed for such Post-Warranty Maintenance Services on a quarterly, semiannual or annual basis, in advance, as Customer indicates on the Order Form. After the Initial Term, Altura may adjust charges for Maintenance Services upon ten (10) days prior written notice, provided such adjustment does not exceed Altura's then standard rates for servicing like Equipment. Payment for Post-Warranty Maintenance Services shall be due and payable in advance, no later than the commencement of the first billing cycle and prior to commencement of each billing cycle thereafter. For customers electing a multi-year Post-Warranty Maintenance Term as set forth on the Order Form, charges for these services during the Initial Term will not increase more than the cumulative increase in the Consumer Price Index or 5% per annum, whichever is greater.

(d) If Customer has elected a Post-Warranty Maintenance Term of one (1) year or less, such Post-Warranty Maintenance Term may be terminated by Customer upon ninety (90) days prior written notice to Altura without charge. If Customer has elected a Post-Warranty Maintenance Term greater than one (1) year, such Post-Warranty Maintenance Term may be terminated by Customer upon ninety (90) days prior written notice to Altura; provided, however that all Service Fees payable or to become payable during the Post-Warranty Maintenance Term shall be accelerated and Customer shall pay Altura such accelerated amount within thirty (30) days of termination.

(e) After termination of the Post-Warranty Maintenance Term, Altura shall provide Maintenance Services to Customer pursuant to the terms and conditions of a separate agreement providing for maintenance on a time and materials basis.

16. MAINTENANCE SERVICES EXCLUSIONS.

(a) Maintenance Services exclude repairs for: (i) damage caused by Force Majeure conditions; (ii) Customer's failure to follow operational, maintenance, or environmental requirements described in the manufacturer's manuals or product bulletins, or Altura manuals and other documentation; (iii) Customer's or third party's additions, alterations, modifications, enhancements or repairs to, or disassembly of, the System without Altura's written consent; (iv) Customer's or third party's mishandling, abuse, misuse, negligence or damage to the System; (v) relocation of the System without Altura's written consent (other than telephone instruments relocated in accordance with the manufacturer's specifications); (vi) Customer's failure to promptly advise Altura of a malfunction which delay exacerbates the malfunction; (vii) operation beyond the System's design range or improper testing; (viii) failures or changes required by the local exchange company, interexchange carrier, the power company or other transmission providers; and/or (ix) malfunctions of third party equipment including batteries and auxiliary equipment and equipment owned by the public telephone network.

(b) Post Warranty Maintenance Services excludes repairs and replacement of third party personal computers, application processor hardware and

operating software that have been manufactured discontinued by the manufacturer. In the event of a failure, Altura will provide maintenance repairs on a best effort basis, with any new hardware or operating software billed at the Customers contracted rates.

(c) Altura reserves the right to void the Warranty, cancel its service obligations for a System after the Warranty Period and accelerate payment of all Service Fees due or to become due under the Post-Warranty Maintenance Term if Customer installs or has installed gray market products, performs or permits a third party to perform Modifications without the prior written approval of Altura.

17. **INDEMNIFICATION.** During the Warranty Period and any Post-Warranty Maintenance Term, each party shall indemnify the other for any third party claim alleging bodily injury, including death, or damage to tangible property to the extent such injury or damage is caused by the negligence of the indemnifying party, provided that such claim is promptly reported in writing and reasonable assistance is provided. The indemnifying party may, at its election, defend and control any such suit or proceeding.

18. **CONFIDENTIAL INFORMATION.** The parties agree: (i) not to disclose the Confidential Information (as defined below) of the other party, its agents and licensors, to third parties (excluding a party's agents or representatives); (ii) not to use the Confidential Information except in furtherance of the purposes of this Agreement; (iii) that the Confidential Information of a party is and shall remain the property of the disclosing party; and (iv) to return or destroy, at the request of the disclosing party, the other party's Confidential Information upon termination of this Agreement. Confidential Information includes information in any form regarding business or operations of a party including, without limitation, the terms of this Agreement; provided, however that Confidential Information shall not include information that: (A) is or subsequently becomes publicly available without the receiving party's breach of any obligation owed to the disclosing party; (B) became known to the receiving party prior to the disclosing party's disclosure of such information to the receiving party; (C) became known to the receiving party from a source other than the disclosing party and other than by the breach of an obligation of confidentiality owed to the disclosing party; or (D) is independently developed by the receiving party. Nothing herein shall prevent disclosures that are required by law.

19. **DEFAULT.** Either party shall be entitled to seek adequate assurance of performance and thereafter terminate this Agreement and/or any outstanding Order Form and pursue its remedies in law or equity, except as otherwise limited by this Agreement, in the event that: (i) the other party fails to make any payment when due and fails to cure the nonpayment within ten (10) days of written notice; (ii) the other party commits a material breach of this Agreement (other than a payment breach) and fails to cure that breach within thirty (30) days of written notice describing the breach; (iii) if Customer refuses to permit Altura to perfolil its obligations under this Agreement, or purports to terminate or cancel this Agreement or any Order Form; (iv) a party files bankruptcy or fails to discharge an involuntary petition within sixty (60) days; or (v) a party ceases doing business or commences dissolution or liquidation. The aggrieved party may suspend performance of its obligations during the cure period for any breach described above. Upon termination of this Agreement resulting from Customer's failure to pay and/or material breach, Altura shall have the right to accelerate all Service Fees payable or to become payable hereunder and Customer shall pay Altura such accelerated amount within ten (10) days of termination.

20. **FORCE MAJEURE.** Altura's non-performance or delay shall be excused to the extent the failure or delay in performance is the result of events beyond Altura's reasonable control, including but not limited to, acts of God (e.g., lightning, earthquake, etc.), power failures, surges, or fluctuations, air conditioning failures, malfunction of external trunk or cable lines, labor disputes, shortages of supplies, riots, war, fire, epidemics, government regulation, court action, Customer's acts or omissions, or transportation difficulties.

21. **DISPUTE RESOLUTION.** In the event of a dispute arising out of this Agreement, the parties agree to negotiate in good faith to discuss and attempt to resolve the issues which are the subject of the dispute. ~~If such discussions fail to resolve the dispute, (i) disputes that are likely to affect or involve intellectual property rights shall be handled by a court of competent jurisdiction located in Orange County, California; (ii) disputes that involve payment hereunder may be handled, at Altura's sole discretion, either by a court of competent jurisdiction or by arbitration pursuant to this Section 21; and (iii) all other disputes shall be submitted to binding arbitration for final resolution. The arbitration shall be conducted in accordance with the Commercial Arbitration Rules of the American Arbitration Association ("AAA") and shall be held in Orange County, California. There shall be one arbitrator, and such arbitrator shall be chosen by mutual agreement of the parties in accordance with AAA rules. The findings of the arbitrator shall be final and binding on the parties and may be entered by either party in a court of competent jurisdiction located in Orange County, California for purposes of enforcement.~~ In the event that legal resolution is required, venue shall be in Orange County, California.

22. **MISCELLANEOUS.** (a) **Subcontractors.** Altura may subcontract services under this Agreement. (b) **Assignment.** Customer shall not assign this Agreement or any Order Form, or transfer the System or any part thereof, without Altura's prior written consent. Any assignment of any rights, duties or obligations under this Agreement without Altura's consent will be deemed null and void. (c) **Binding Effect.** This Agreement shall be binding upon and shall inure to the benefit of the parties and their respective successors and permitted assigns. (d) **Waiver.** Waiver by either party of any default will not operate as a waiver of any subsequent default. (e) **Enforcement.** The non-prevailing party in any dispute will be liable for the prevailing party's costs or expenses of enforcing this Agreement, including reasonable attorneys' and collection fees. (f) **Severability.** If any court finds any provision of this Agreement to be void, unlawful or unenforceable under any applicable statute or other controlling law, the remainder of this Agreement shall continue in full force and effect. (g) **Credit Approval.** Customer will provide Altura with credit information as requested, and Altura's obligations under this Agreement are subject to credit approval. (h) **Statute of Limitations.** ~~Except for tax issues in Section 5(e), neither party may bring a cause of action arising from this Agreement more than two (2) years after the cause of action has accrued.~~ (i) **Governing Law.** This Agreement shall be governed by the laws of the State of California without regard to the conflicts of laws principles thereof. (j) **Statute of Frauds.** The parties may rely on a facsimile transmission of the other party's authorized signature to bind the other party and satisfy any applicable Statute of Frauds. (k) **Execution.** This Agreement may be executed contemporaneously in one or more counterparts, each of which shall be deemed an original, but which together shall constitute one instrument. (l) **Non-Solicitation.** Neither Customer nor its affiliates shall hire, employ or solicit with an offer to hire or employ any employees or agents of Altura, during the term of this Agreement and for one (1) year after termination. (m) **Independent Contractor.** Altura and Customer are independent contractors with respect to all rights and obligations under this Agreement. (n) **Entire Agreement.** This Agreement represents the entire agreement between the parties regarding the subject matter hereof and supersedes all prior written and oral representations. (o) **Amendments.** No amendment to this Agreement shall be effective unless it is in writing and signed by the parties. No usage of trade or course of dealing by or between the parties shall be deemed to constitute any modification or amendment of the terms of this Agreement. (p) **Document Precedence.** In the event of any conflict between this Agreement, any Order Form, Schedule or Scope of Work, unless otherwise indicated therein, with respect to each Order, the order of precedence shall be (i) the Order Form, (ii) the Schedules, (iii) the Scope of Work, and (iv) the Agreement.



COUNCIL COMMUNICATION

CC #: 0720
File #: 0203-06

Title: Nimble Storage Support - Purchase Order
Contact: Karl Grover 916-774-5145 kgrover@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.11.

RECOMMENDATION TO COUNCIL

Recommend Council authorize a purchase order to CDW Government, LLC for the renewal of Nimble support for the City's digital data storage solution in the amount of \$55,973.

BACKGROUND

The City's primary method of storing digital files onsite for all departments is Nimble storage. The Nimble solution consists of multiple storage arrays across multiple locations to provide capacity for the City's data storage needs in a reliable and secure manner. The support coverage period is from February 20, 2020 through August 1, 2024.

The cost is \$55,973 through CDW-G using a competitively-bid contract via National Intergovernmental Purchasing Alliance Technology Solutions (2018011-01).

FISCAL IMPACT

The support renewal cost of \$55,973 is accounted for in the Information Technology's FY2019-20 Internal Service Fund budget.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. A purchase order for the storage of digital files meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Karl Grover, Acting Program Manager - IT Network Infrastructure

Hong Sae, Chief Information Officer



Dominick Casey, City Manager

ATTACHMENTS:

Description

Nimble Support Renewal CDW-G Quote

QUOTE CONFIRMATION



DEAR ART VOGTLIN,

Thank you for considering CDW•G for your computing needs. The details of your quote are below. [Click here](#) to convert your quote to an order.

QUOTE #	QUOTE DATE	QUOTE REFERENCE	CUSTOMER #	GRAND TOTAL
LHJK038	3/11/2020	NIMBLE RNWL NIPA	5344025	\$55,973.00

IMPORTANT - PLEASE READ

Special Instructions: Please include this quote # on your PO and either fax it to 847-371-2100 or email it to jeffbut@cdwg.com
Thank you!

QUOTE DETAILS

ITEM	QTY	CDW#	UNIT PRICE	EXT. PRICE
AVH RNW 9781650 CITY OF ROSEVILLE Mfg. Part#: FM-LIST1-01-1-240801JB002 HP/NIMBLE SUPPORT RENEWAL FOR SERIAL #s AF151704NIM AF153638NIM SUPPORT EXPIRATION 8/1/2024 see email for complete details CONTRACT:NATIONAL IPA PRODUCT GROUP:SERVICES/WARRANTY - partner delivered % discount off MSRP 13.3% Electronic distribution - NO MEDIA Contract: National IPA Technology Solutions (2018011-01)	1	5634902	\$55,973.00	\$55,973.00

PURCHASER BILLING INFO	SUBTOTAL	\$55,973.00
Billing Address: CITY OF ROSEVILLE ACCOUNTS PAYABLES 311 VERNON ST ROSEVILLE, CA 95678-2649 Phone: (916) 774-5720 Payment Terms: Net 30 Days-Govt State/Local	SHIPPING	\$0.00
	SALES TAX	\$0.00
	GRAND TOTAL	\$55,973.00
DELIVER TO	Please remit payments to: CDW Government 75 Remittance Drive Suite 1515 Chicago, IL 60675-1515	
Shipping Address: CITY OF ROSEVILLE ART VOGTLIN 316 VERNON ST STE 300 ROSEVILLE, CA 95678-2635 Shipping Method: ELECTRONIC DISTRIBUTION		

Need Assistance? CDW•G SALES CONTACT INFORMATION



Jeff Butchko

(877) 853-0557

jeffbut@cdwg.com

~~This quote is subject to CDW's Terms and Conditions of Sales and Service Projects at
<http://www.cdw.com/content/terms-conditions/product-sales.aspx>
For more information, contact a CDW account manager.~~

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COUNCIL COMMUNICATION

CC #: 0725
File #: 0203-06

Title: Cisco Smartnet Network Support - Purchase Order
Contact: Karl Grover 916-774-5145 kgrover@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.12.

RECOMMENDATION TO COUNCIL

Recommend Council authorize a purchase order to ConvergeOne for the renewal of Cisco SmartNet support for the Citywide data network in the amount of \$35,117.10.

BACKGROUND

The City's various technology services depend on the data network to efficiently and reliably send and receive information. The network consists of various types of Cisco devices located across many City locations to provide employees with access they need to perform daily job functions. The support coverage is from February 1, 2020 through November 30, 2020.

The cost is \$35,117.10 through ConvergeOne using a competitively-bid contract via the National Association of State Procurement Officials AR233 and State of California Participating Addendum # 7-14-70-04.

FISCAL IMPACT

The support renewal costs \$35,117.10 and is accounted for in the Information Technology's FY2019-20 Internal Service Fund budget.

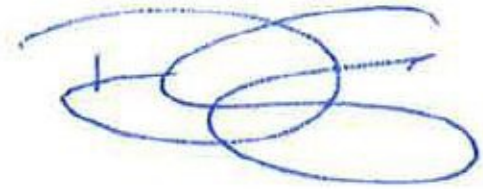
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. A purchase order for support of network devices meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Karl Grover, IT Program Manager - Network Infrastructure

Hong Sae, Chief Information Officer



Dominick Casey, City Manager

ATTACHMENTS:

Description

Cisco Support ConvergeOne Quote

Solution Summary

11/19 Cisco City of Roseville

Customer: City of Roseville
Ship To Address: 311 Vernon St
Ste 206
Roseville, CA 95678

Customer ID: SWCITYOFR016
Prepared By: Taylor Amann
TAmann@convergeone.com
+15183719000

Primary Contact: Norm Hinman
Email: nhinman@roseville.ca.us

Phone: 9167745200
National Account Manager: Adam Eisenberg
Email: AEisenberg@convergeone.com
Phone: +18184459142

#	Item Number	Description	Qty	Extended List	% Disc	Unit Price	Extended Price
1	CON-SNT-1	SMARTNET MAINTENANCE, 8X5XNBD	39019	\$39,019.00	10.00%	\$0.90	\$35,117.10
						Total:	\$35,117.10

ACCEPTED BY:

TITLE: _____

DATE: _____

ACCEPTED BY:

TITLE: _____

DATE: _____

TERMS AND CONDITIONS

This Solution Summary summarizes the document(s) that are attached hereto and such documents are incorporated herein by reference (collectively, this "Order"). Customer's signature on this Order (or Customer's issuance of a purchase order in connection with this Order) shall represent Customer's agreement with each document in this Order and acknowledgement that such attached document(s) are represented accurately by this Solution Summary.

Unless otherwise specified in this Order, this Order shall be subject to the following terms and conditions (the "Agreement"): (i) the Master Sales Agreement or other applicable master agreement in effect as of the date hereof between ConvergeOne, Inc. and/or its subsidiaries and affiliates (collectively, "C1" or "ConvergeOne" or "Seller") and Customer; or (ii) if no such master agreement is currently in place between C1 and Customer, the Online General Terms and Conditions currently found on the internet at: <https://www.convergeone.com/online-general-terms-and-conditions/> . If Customer's Agreement is a master agreement entered into with one of ConvergeOne, Inc.'s predecessors, affiliates and/or subsidiaries, ("Legacy Master Agreement"), the terms and conditions of such Legacy Master Agreement shall apply to this Order, subject to any modifications, located at: <https://www.convergeone.com/online-general-terms-and-conditions/> . In the event of a conflict between the terms and conditions in the Agreement and this Order, the order of precedence shall be as follows: (i) this Order (with the most recent and specific document controlling if there are conflicts between the Solution Summary and any applicable supporting document(s) incorporated into this Order), (ii) Attachment A to the Agreement (if applicable), and (iii) the main body of the Agreement.

This Order shall apply to sales of any of the following to Customer: (a) any hardware, third party software, and/or Seller software (collectively, "Products"); (b) any installation services, professional services, and/or third party provided support services that are generally associated with the Products and sold to customers by Seller ("Professional Services"); (c) any Seller-provided vendor management services, software release management services, remote monitoring services and/or, troubleshooting services (collectively, "Managed Services"); and/or (d) any Seller-provided maintenance services ordered by Customer to maintain and service Supported Products or Supported Systems at Supported Sites to ensure that they operate in conformance with their respective documentation and specifications ("Maintenance Services"). For ease of reference only, Professional Services, Managed Services and Maintenance Services may be referred to collectively as "Services." Unless otherwise defined herein, capitalized terms used herein will have the same meanings as set forth in the Agreement.

Products and/or Services not specifically itemized are not provided hereunder. This Order will be valid for a period of thirty (30) days following the date hereof. Thereafter, this Order will no longer be of any force and effect.

Line	Major/Minor	Instance Number	PAK/Serial Number	Product Number	Product Description	Qty	Contract#	Service Level	Service Description	Start Date	End Date
1	Major	1008544112	FTX1636AH7D	CISCO2911/K9	^Cisco 2911 w/3 GE,4 EHWIC,2 DSP,1 SM,256MB CF,512MB DRAM,IPB	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
2	Major	1822112222	FXS1952Q1UT	ASR1001X-5G-K9	ASR1001-X, 5G Base Bundle, K9, AES, Built-in 6x1G	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
2.01	Minor	1822112347	4721J1089AF	FLSA1-1X-2.5-5G	2.5G to 5Gbps License for ASR 1001-X	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
2.02	Minor	1822112362		SLASR1-AES	Cisco ASR 1000 Advanced Enterprise Services License	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
3	Major	1822750378		APIC-CLUSTER-M2	APIC Cluster - Medium Configurations (Up to 1000 Edge Ports)	1	New	SSSNT	SOLN SUPP 8X5XNBD	01-Feb-2020	30-Nov-2020
4	Major	1823222730		APIC-CLUSTER-M2	APIC Cluster - Medium Configurations (Up to 1000 Edge Ports)	1	New	SSSNT	SOLN SUPP 8X5XNBD	01-Feb-2020	30-Nov-2020
5	Major	1824058754	SAL2025S85K	N9K-C9336PQ	^Nexus 9K ACI Spine, 36p 40G QSFP+	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
6	Major	1824058774	SAL2025S873	N9K-C9336PQ	^Nexus 9K ACI Spine, 36p 40G QSFP+	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
7	Major	1824095231	SAL2025S86Z	N9K-C9336PQ	^Nexus 9K ACI Spine, 36p 40G QSFP+	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
8	Major	1824095289	SAL2025S870	N9K-C9336PQ	^Nexus 9K ACI Spine, 36p 40G QSFP+	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
9	Major	1824143269		N9K-C9372PX-E-B18Q	^2 Nexus 9372PX-E with 8 QSFP-40G-SR-BD	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
9.01	Minor	1824143436	SAL2009ZR5R	N9K-C9372PX-E-BUN	^Nexus 9372PX-E bundle PID	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
9.02	Minor	1824143693	SAL2010ZSQR	N9K-C9372PX-E-BUN	^Nexus 9372PX-E bundle PID	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
10	Major	1824152219		N9K-C9372PX-E-B18Q	^2 Nexus 9372PX-E with 8 QSFP-40G-SR-BD	1	New	SNT	SNTC 8X5XNBD	01-Feb-2020	30-Nov-2020
10.01	Minor	1824152331	SAL2023RBAB	N9K-C9372PX-E-BUN	^Nexus 9372PX-E bundle PID	1	New	SNT	SNTC 8X5XNBD	01-Feb-2020	30-Nov-2020
10.02	Minor	1824152302	FDO2020014V	N9K-C9372PX-E-BUN	^Nexus 9372PX-E bundle PID	1	New	SNT	SNTC 8X5XNBD	01-Feb-2020	30-Nov-2020
11	Major	1824157269		N9K-C9372PX-E-B18Q	^2 Nexus 9372PX-E with 8 QSFP-40G-SR-BD	1	New	SNT	SNTC 8X5XNBD	01-Feb-2020	30-Nov-2020
11.01	Minor	1824157483	FDO20241CXY	N9K-C9372PX-E-BUN	^Nexus 9372PX-E bundle PID	1	New	SNT	SNTC 8X5XNBD	01-Feb-2020	30-Nov-2020
11.02	Minor	1824157601	FDO20241CVM	N9K-C9372PX-E-BUN	^Nexus 9372PX-E bundle PID	1	New	SNT	SNTC 8X5XNBD	01-Feb-2020	30-Nov-2020
12	Major	1824165127		N9K-C9372PX-E-B18Q	^2 Nexus 9372PX-E with 8 QSFP-40G-SR-BD	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
12.01	Minor	1824165270	FDO202407EM	N9K-C9372PX-E-BUN	^Nexus 9372PX-E bundle PID	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
12.02	Minor	1824165220	FDO201604JP	N9K-C9372PX-E-BUN	^Nexus 9372PX-E bundle PID	1	New	SNTP	SNTC 24X7X4	01-Feb-2020	30-Nov-2020
13	Major	5106867551	FLM2114W1T4	ISR4331-SEC/K9	Cisco ISR 4331 Sec bundle w/SEC license	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
14	Major	5106867625	FLM2114W1TE	ISR4331-SEC/K9	Cisco ISR 4331 Sec bundle w/SEC license	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
15	Major	5106867684	FLM2114W1TD	ISR4331-SEC/K9	Cisco ISR 4331 Sec bundle w/SEC license	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
16	Major	5180497600	FLM2146V0L3	ISR4321-AX/K9	Cisco ISR 4321 AX Bundle w/APP, SEC lic	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
17	Major	5351085120	CAT2317L50D	C9500-48Y4C-A	Catalyst 9500 48-port x 1/10/25G + 4-port 40/100G, Advantage	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
18	Major	5351085137	CAT2317L50J	C9500-48Y4C-A	Catalyst 9500 48-port x 1/10/25G + 4-port 40/100G, Advantage	1	New	SNT	SNTC 8X5XNBD	05-Feb-2020	30-Nov-2020
19	Major	5355902574	CAT2319L0X2	C9500-48Y4C-A	Catalyst 9500 48-port x 1/10/25G + 4-port 40/100G, Advantage	1	202503663	SSSNT	SOLN SUPP 8X5XNBD	07-Jun-2020	30-Nov-2020
20	Major	5355902581	CAT2320L07T	C9500-48Y4C-A	Catalyst 9500 48-port x 1/10/25G + 4-port 40/100G, Advantage	1	202503663	SSSNT	SOLN SUPP 8X5XNBD	07-Jun-2020	30-Nov-2020
21	Major	5447122043	FXS2230Q3UN	ASR1001-X=	Cisco ASR1001-X Chassis, 6x1GE, Optional P/S, 8GB DRAM	1	New	SNT	SNTC 8X5XNBD	31-Mar-2020	30-Mar-2021



COUNCIL COMMUNICATION

CC #: 0719
File #: 0203-12

Title: Taser Equipment - Sole Source Purchase Order
Contact: Shelly Bracco 916-774-5018 sbracco@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.13.

RECOMMENDATION TO COUNCIL

Authorize the issuance of a purchase order to ProForce for the purchase of replacement tasers with cartridges and spare parts for FY2019-20, in an amount not to exceed \$130,000.

BACKGROUND

The Police Department has an ongoing requirement for Tasers for its police personnel. The purchase is for (77) seventy-seven Tasers with cartridges and replacement parts. The Tasers are used by Patrol officers, the Regional SWAT team, and Animal Control officers.

The Police Department's current Taser X26 models are 15 years old and are no longer being supported by Taser for repair or replacement. The new X26P models, cartridges and replacement parts will carry the department through the next five years.

ProForce has been a sole source Taser provider to the City for several years. Prior to the recent authorization to replace all Tasers, the Police Department spent almost \$20,000 with ProForce in FY2019-20. By approving the sole source purchase increase to \$130,000, the Police Department will be able to make the final purchase of Tasers and stay within the requested limit.

FISCAL IMPACT

A budget adjustment was approved by Council on January 15, 2020, which appropriated \$100,000 in the Citizen's Option for Public Safety Fund for taser equipment replacement. The additional \$30,000 was approved in the Police Department's FY2019-20 budget. There will be no net impact to the General Fund.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not

considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. The purchase taser equipment meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Shelly Bracco, Administrative Analyst

James Maccoun, Police Chief

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, positioned above a horizontal line.

Dominick Casey, City Manager

ATTACHMENTS:

Description



COUNCIL COMMUNICATION

CC #: 0736
File #: 0203-10

Title: Pool System Repair Parts and Service - Service Agreement Amendment
Contact: Brian Castelluccio 916-223-4310 bcastelluccio@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.14.

RECOMMENDATION TO COUNCIL

Staff recommends Council adopt a resolution authorizing the City Manager to execute Amendment No. 1 to the Service Agreement with Knorr Systems, Inc., to allow for pool system repairs and replacement components.

BACKGROUND

The request is for an increase in purchase authority in the FY2019-20 budget to \$40,000.00.

The Parks, Recreation & Libraries (PRL) department currently oversees three aquatics facilities and two splash pads with a total of nine water/chemical circulation systems. The systems consist of pumps, heaters, filters, chemical distribution systems and controllers. The systems' operation is critical to ensure a safe environment for pool users and the protection of our pool infrastructure and assets. To support the proper maintenance, repair and replacement of this critical specialized equipment, the City has procured a sole source on-call contract with Knorr Systems, Inc., who specializes in maintaining aquatic systems. Our facilities are aging and require an increased need for repair and replacement of system components. Earlier this year we had an unexpected emergency repair and replacement at our indoor pool, which was necessary to ensure the health and safety of the public and keep this revenue generating facility open to the public. This emergency replacement results in accumulated expenditures which exceed the previously approved limit. The increase is requested to accommodate this replacement plus the repair and replacement of critical system components at our aquatics facilities which may be needed through the remainder of the fiscal year. Knorr Systems, Inc., has performed satisfactorily and in accordance with the terms and conditions of the service agreement (S2003051).

FISCAL IMPACT

The total cost of the service agreement, including the recommended amendment, shall not exceed \$40,000. The funds for FY2019-20 are included in the Parks, Recreation & Libraries Department's General Fund budget. There is no net impact to the General Fund.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. Approval of an amendment to a service agreement for pool system repair parts and service meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Brian Castelluccio, Parks, Recreation & Libraries Superintendent

Jill Geller, Parks, Recreation & Libraries Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-126

Service Agreement Amendment_Knorr Systems

RESOLUTION NO. 20-126

APPROVING AMENDMENT NO. 1 TO SERVICE AGREEMENT
BETWEEN CITY OF ROSEVILLE AND KNORR SYSTEMS, INC., AND AUTHORIZING
THE CITY MANAGER TO EXECUTE IT ON BEHALF OF
THE CITY OF ROSEVILLE

WHEREAS, Amendment No. 1 to Service Agreement (S2003051), regarding pool system parts and repair services, between the City of Roseville and Knorr Systems, Inc., has been reviewed by the Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said Amendment No. 1 to Service Agreement is approved and the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

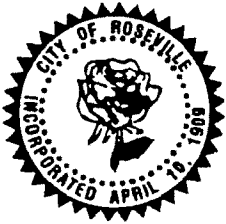
NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



PURCHASING
CITY OF ROSEVILLE

2005 HILLTOP CIRCLE, ROSEVILLE, CA 95747
(916) 774-5720 • TDD (916) 774-5220 • FAX (916) 774-5736

**SERVICE AGREEMENT
AMENDMENT**

SERVICE AGREEMENT No: S2003051
AMENDMENT No: 1

SERVICE LOCATION: AS DIRECTED

Contractor No.: V20165

SUBMIT ALL INVOICES TO:
CITY OF ROSEVILLE
Finance Department
311 Vernon Street
Roseville, CA 95678

Contractor License No.:
Business License No.:

Telephone No.: (800) 321-7946 Fax: 510-639-9116

Department: PARKS & REC / AQUATICS

Email address: ginat@knorrsystems.com
Contractor: KNORR SYSTEMS, INC
ATTN: GINA TORRES
2021 LAS POSITAS COURT, #143
LIVERMORE, CA 94551

Acct. Code: 1001.5421.58260.000000.37678

Buyer: BABETTE OWENS
Phone: 916-774-5704

Service Agreement Number S2003051 ("Agreement"), which was executed on, 7/20/19, is hereby modified as follows:

Select all provisions that apply:

- ☐ The Contractor name is hereby changed from _____ to _____
- ☐ The term of the Agreement is increased by _____ year and the expiration date of the Agreement is changed.
- ☒ The Total Cost of Service payable under this Agreement is modified from \$23,337.00 to \$40,000.00. The purpose of this modification is to provide emergency repair services on chemical controllers at Johnson Pool, Mike Shellito Pool and the Roseville Aquatic Complex.

All other provisions of the Agreement shall remain unchanged and in full force and effect.

CONTRACTOR:

By: _____

Title: CEO / President

By: _____

Title: Vice President / General Manager

CITY OF ROSEVILLE,
A MUNICIPAL CORPORATION:

By: _____
Dominick Casey
City Manager

Distribution: 1- Purchasing, 1 - Contractor, 1 - Originating Dept



COUNCIL COMMUNICATION

CC #: 0745

File #: 0704

Title: On-Call Qualified Stormwater Pollution Prevention Plan Developer and Practitioner Services - Professional Services Agreement Amendment
Contact: Rjahja Canlas 916-774-5342 rcanlas@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.15.

RECOMMENDATION TO COUNCIL

Adopt a resolution authorizing the City Manager to execute the second amendment to Professional Services Agreement with HydroCompliance, Inc.

BACKGROUND

In May 2018, Council approved a Professional Services Agreement with BT Consulting, Inc. The agreement was for a base of one year with two optional one-year renewals. The authorization amount was for \$50,000 for the first year and \$50,000 annually. Council also authorized the City Manager to execute the remaining two (2) renewal years without further Council approval, pending approval of the budget each year. The first renewal was approved by the City Manager in May 2019. In March 2020, the City Attorney's Office approved assignment of the Agreement from BT Consulting, Inc. to HydroCompliance, pursuant to Section 13 of the Agreement.

The original Agreement also included a requirement to return to Council for approval if an increase to the annual amount was needed. Staff is requesting approval to extend the agreement for the second (final) one-year renewal period and increase the service agreement annual authorization by \$10,000, bringing the total annual amount to \$60,000 and the contract total to \$160,000 for the three-year contract period. The projected workload includes Pistachio Regional Park, Crabb Park, Sullivan Park and Central Park.

FISCAL IMPACT

The second amendment will increase the annual service agreement authorization by \$10,000, bringing the total annual amount to \$60,000 and the contract total to \$160,000 for the three-year contract period. The on-call services agreement does not guarantee an annual amount of work and is in place on an "as-needed" basis. Work performed under this service agreement will utilize capital improvement project budgets.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. Approval of a professional services agreement amendment meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Rjahja Canlas, Associate Engineer

Jill Geller, Parks, Recreation & Libraries Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-135

Hydrocompliance - second amendment

RESOLUTION NO. 20-135

APPROVING A SECOND AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT, BETWEEN THE CITY OF ROSEVILLE AND HYDROCOMPLIANCE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a second amendment to on-call professional services agreement for On-Call Qualified Stormwater Pollution Prevention Plan Developer and Qualified Stormwater Pollution Prevention Plan Practitioner Services, by and between the City of Roseville and HydroCompliance, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said second amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**SECOND AMENDMENT TO
ON-CALL PROFESSIONAL SERVICES AGREEMENT**

On-Call Qualified SWPPP Developer and Qualified SWPPP Practitioner Services

THIS SECOND AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and HydroCompliance, a California corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into an On-Call Professional Services Agreement dated August 15, 2018 and amended May 18, 2019 ("Agreement") regarding On-Call Qualified SWPPP Developer and Qualified SWPPP Practitioner services ("Project");

WHEREAS, CITY desires to amend the term for an additional year as outlined in Section 1 of the Agreement; and

WHEREAS, CITY consented to the assignment of the Agreement from BT Consulting, Inc. to HydroCompliance, pursuant to Section 13 of the Agreement.

NOW, THEREFORE, the parties agree as follows:

1. Section 1 of the Agreement is amended to read as follows:

"The term of this Agreement shall commence upon execution and expire on June 30, 2021."

2. Section 3 of the Agreement is amended to read as follows:

"Compensation. For its services provided hereunder, CONSULTANT shall be compensated on a time and expense basis in accordance with the hourly rates as described in Exhibit "B," attached hereto and incorporated herein by this reference. Any proposed increase in the effective rates for future services must be preceded by at least a 90-day written notice to the contracting department. Total compensation shall not exceed one hundred sixty thousand dollars (\$160,000.00). Total annual compensation shall not exceed sixty thousand dollars (\$60,000.00) per year. Adjustment to the total compensation per year shall require a written amendment to this Agreement, subject to approval by the City Council.

CONSULTANT shall submit monthly invoices for its services. Such invoices shall be delineated by task, the person performing the services, and the hourly rate, which shall be stated in time increments of not greater than one tenth (1/10) hours. CITY shall pay invoices within thirty (30) days after receipt if the services specified in the invoice have been satisfactorily completed."

3. Section 4 of the Agreement is amended by adding an additional paragraph to read as follows:

"CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees,

volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.”

4. Section 14 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and location of work in accomplishing CITY’s on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.”

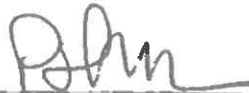
5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this Second Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this Second Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

HYDROCOMPLIANCE, a California
corporation

BY: _____
DOMINICK CASEY
City Manager

BY: 
its: PRESIDENT

ATTEST:

and

BY: _____
SONIA OROZCO
City Clerk

BY: 
its: C.F.O

APPROVED AS TO FORM:

BY: 
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: 
JILL GELLER
Parks, Recreation & Libraries Director

EXHIBIT “B”



HydroCompliance

Total Site Solutions

Schedule of Rates and Charges

Effective January 1, 2020

Classification	Hourly Rate
----------------------	-------------

Civil Engineer.....	\$140
Water Compliance Specialist.....	\$140
Training Instructor.....	\$140
Qualified SWPPP Developer / Inspection Auditor	\$100
Qualified SWPPP Practitioner	\$90
Drafting Technician.....	\$90
Clerical.....	\$60

Other Charges.....	Rate
--------------------	------

Overtime (after 8 hours but less than 12).....	1.5 x rate
Overtime (after 12 hours)	2.0 x rate
Mileage	\$0.60/mile
Per Diem	\$200/day

Fixed Fee Costs

- Risk 1 and 2 SWPPP - \$2,200
- Risk 1 QSP Services – All Inclusive \$1,200/month (See Below)
- Risk 2 QSP Services – All Inclusive \$1,400/month (See Below)

All-Inclusive Includes: Quarterly Non-Stormwater Inspections, Weekly Inspections, Weather Monitoring, Rain Event Action Plans (REAPs), Pre-storm Inspections, Inspections each 24 hours during extended storm events, Post Storm Inspections, Sampling and Data Assembly with upload to SMARTS, Annual Reports, Notice of Termination, 5 hours per year of professional representation should the need arise (meeting with the RWQCB, contractor training, etc.), SWPPP Amendments, and Changes of Information.



COUNCIL COMMUNICATION

CC #: 0722
File #: 0704-01

Title: Richard and Pauline Roccucci Park Project - Notice of Completion
Contact: Rjahja Canlas 916-774-5342 rcanlas@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.16.

RECOMMENDATION TO COUNCIL

Accept the Richard and Pauline Roccucci Park Project as complete and adopt a resolution authorizing the Parks, Recreation & Libraries Director to execute the attached Notice of Completion.

BACKGROUND

The Parks, Recreation & Libraries Department has made a final inspection of the Richard and Pauline Roccucci Park Project (formerly parksite W-51) and has found that all contract work has been completed in accordance with the improvement plans and specifications. The project is now ready for acceptance. This 4.7-acre park site is located on Symphony Avenue at Chorus Avenue in the West Roseville Specific Plan. The project included a children's play area, shaded picnic area, adult fitness equipment, multi-use turf, perimeter walkway that connects to the existing bike trail, basketball half court, two pickleball courts, a zip line swing, landscaping and irrigation. In accordance with City specifications, the contractor shall guarantee the installation of these improvements for a period of twelve (12) months from the date of this Notice of Completion.

FISCAL IMPACT

The project was funded with monies from the West Roseville Citywide Park Fund. Funding for maintenance will be through the Westpark Community Facilities District No. 2 (Public Services). There is no impact to the General Fund.

ENVIRONMENTAL REVIEW

Development of WRSP Neighborhood Park W-51 was originally evaluated in the project level West Roseville Specific Plan (WRSP) EIR (January 2004, SCH# 2002082057). Construction of Neighborhood Park W-51 was found to be within the scope of the project covered by the WRSP Specific Plan EIR. No new effects would be expected to occur and all applicable mitigation

measures from the applicable EIR was implemented during the design and construction of the proposed project. As such, no additional environmental documentation was required.

Respectfully Submitted,

Rjahja Canlas, Associate Engineer

Jill Geller, Director, Parks, Recreation & Libraries



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-117

Notice of Completion

RESOLUTION NO. 20-117

ACCEPTING THE PUBLIC WORK KNOWN AS THE RICHARD AND PAULINE
ROCCUCCI PARK PROJECT, APPROVING THE “NOTICE OF COMPLETION”, AND
AUTHORIZING THE PARKS, RECREATION AND LIBRARIES DIRECTOR TO EXECUTE
SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE

BE IT RESOLVED by the City Council of the City of Roseville as follows:

1. The “Notice of Completion” on file in the City Clerk’s Department relative to that public work known as the Richard and Pauline Roccucci Park Project, has been approved and the public work accepted.
2. The Parks, Recreation and Libraries Director is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

RECORDING REQUESTED BY AND WHEN
RECORDED MAIL TO:

CITY CLERK
CITY OF ROSEVILLE
311 VERNON STREET
ROSEVILLE, CA 95678

Exempt from recording fees
Pursuant to Gov't Code §27383

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work of improvement known as the
Richard and Pauline Roccucci Park Project Project was completed and
accepted by the City of Roseville on _____. The location is
situated in the City of Roseville, County of Placer, State of California and is indicated on the
attached map, marked as Exhibit "A" and incorporated herein by this reference. The real
property herein described is owned by the City of Roseville, 311 Vernon Street, Roseville CA
95678.

The direct/general contractor on said project was Abide Builders, Inc.

The surety on said project was Developers Surety and Indemnity Company

_____.

JILL GELLER

Parks, Recreation, & Libraries Director
City of Roseville
Owner

ATTEST:

Sonia Orozco, City Clerk

State of California)
County of Placer)

I, JILL GELLER, being first duly sworn, depose and say: I am the Parks, Recreation, & Libraries Direc of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Notice of Completion and know its contents and the facts stated therein are true.

JILL GELLER

Parks, Recreation, & Libraries Director
City of Roseville

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.
--

State of California)
County of Placer)

Subscribed and sworn to (or affirmed) before
me on this ____ day of _____,
20____, JILL GELLER

proved to me on the basis of satisfactory
evidence to be the person(s) who appeared
before me.

Place Notary Seal and/or Stamp Above

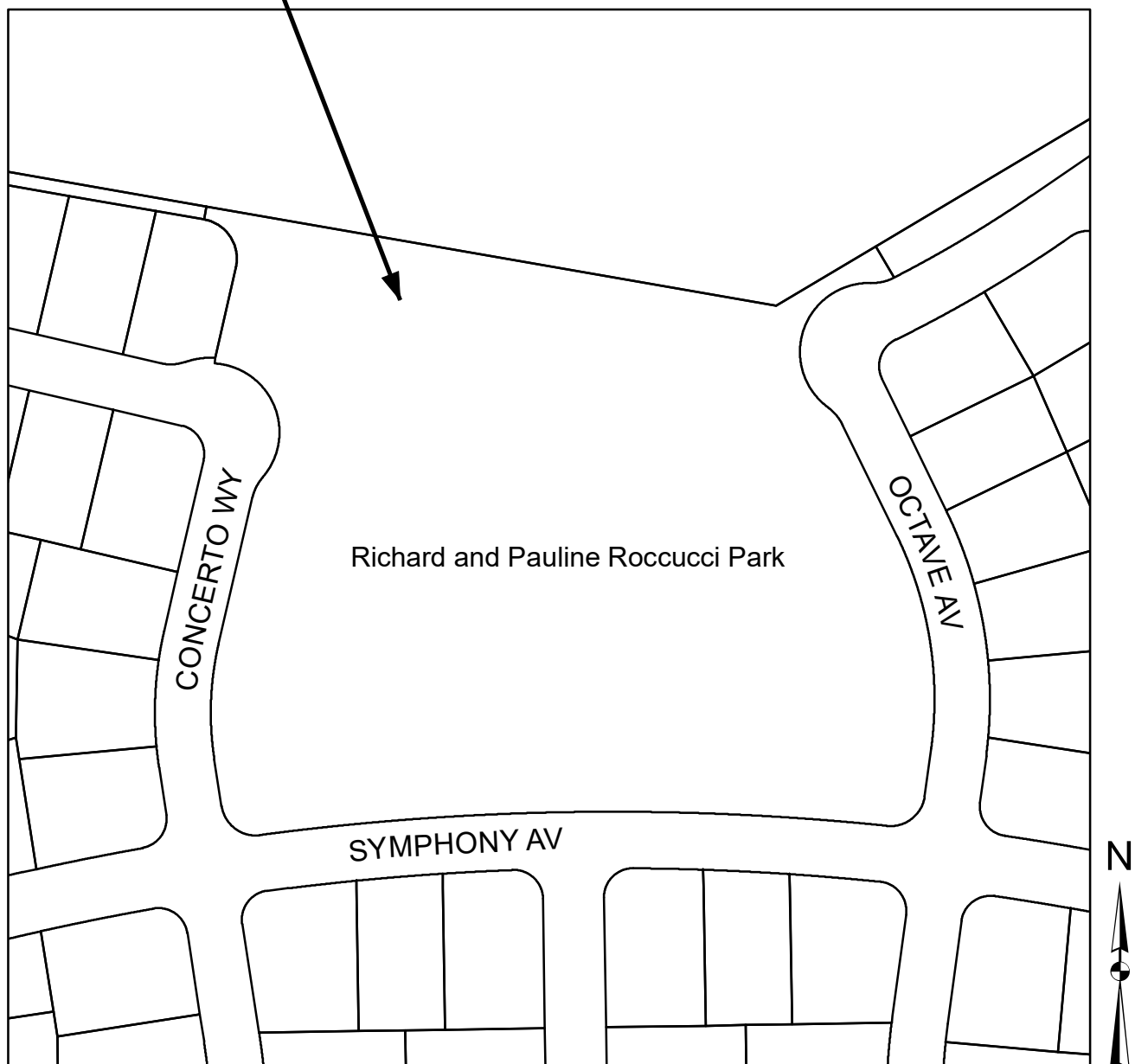
Signature of Notary Public

Exhibit A

Richard and Pauline Roccucci Park Project

The project included a children's play area, shaded picnic area, adult fitness equipment, multi-use turf, perimeter walkway that connects to the existing bike trail, basketball half court, two pickleball courts, a zip line swing, landscaping and irrigation.

PROJECT SITE





COUNCIL COMMUNICATION

CC #: 0726

File #: 0200

Title: City of Roseville Financial Policies for Fiscal Year 2020-21
Contact: Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.17.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt a resolution adopting the City of Roseville Financial Policies effective July 1, 2020.

BACKGROUND

On May 1, 2019, Council approved resolution 19-180 which adopted the financial policies that had previously been consolidated into one policy in July 2018 via Resolution 18-303. On March 4, 2020, Council approved a new Budget Development Policy and an amended Investment Policy, which are incorporated into the document recommended for approval.

The purpose for these policies is to determine appropriate and responsible financial guidelines for staff to follow when developing the budget, making recommendations and fulfilling their role as fiscal stewards of public funds. As new policies are developed and approved by Council, they will be added to this document. Each year the policies will be reviewed by staff, updated where recommended and submitted to Council for approval. A brief summary of the current policies is provided below:

Investment Policy

The purpose of the Investment Policy is to establish cash management and investment guidelines for the Chief Financial Officer, who is responsible for the stewardship of the City of Roseville's investment program. Each transaction and the entire portfolio must comply with the California Government Code Sections 53600 and 53635 et seq. and the Investment Policy. The Investment Policy conforms to the customary standards of prudent investment management and any changes to the policy must be adopted by the Council. The Investment Policy has been certified by the California Municipal Treasurers Association through their Investment Policy Certification Program. There are no updates to this recently amended policy.

Debt Management Policy

The purpose of the Debt Management Policy is to provide guidelines for the issuance of bonds and other forms of indebtedness to finance necessary land acquisitions, capital construction, equipment, and other items for the City. There are no updates to the existing policy.

Budget Development Policy

The purpose of the Budget Development Policy is to establish guidelines for developing the annual operating and capital budget. The policy maintains a citywide focus during the budget development process consistent with the General Principles of Governance adopted by the City Council. The policy includes guidelines for general revenues, a balanced budget and public involvement. There are no updates to this recently adopted policy.

General Fund Reserves Policy

The purpose of the General Fund Reserves Policy is to establish a targeted level of General Fund operating reserves, a basic component of a financially strong city. The policy maintains an amount equal to 10% of annual General Fund budgeted operating costs as the minimum level of funding in the City's General Fund Emergency Reserve and 15% of annual General Fund budgeted operating costs as the target level of funding for the City's new General Fund Stabilization Reserve Fund. Appropriation from the Emergency Reserve and Stabilization Reserve Funds require approval of at least four City Council members. The policy also includes the Litigation Reserve Fund which was established to address legal matters that require proactive handling and funding. There are no updates to the existing policy.

Capital Improvement Program Rehabilitation Funding Policy

The purpose of the Capital Improvement Program Rehabilitation Funding Policy is to address funding for the City's General Fund infrastructure rehabilitation and replacement. There are no updates to the existing policy.

Pension Funding Policy

The Pension Funding Policy documents the method the City will use to determine its actuarially determined contributions to fund the long-term cost of pension benefits. The policy also provides guidance in making annual budget decisions; demonstrates prudent financial management practices; reassures bond rating agencies; and shows employees and the public how pensions will be funded. There are no updates to the existing policy.

Other Post-Employment Benefits (OPEB) Funding Policy

The purpose of the Other Post-Employment Benefits (OPEB) Funding Policy is to accumulate sufficient assets to fully finance the retiree healthcare benefits that the retired employees receive throughout retirement. There are no updates to the existing policy.

FISCAL IMPACT

Approval of the policies has no fiscal impact. However, implementation of the policies is expected to improve the fiscal position and financial health of the City. As an example, the Fiscal Year 2020-21 Proposed Budget is being developed based on these recommended financial policies.

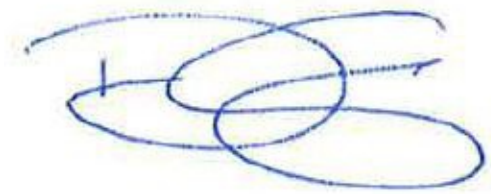
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. The adoption of financial policies meets the above criteria and is not

subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Dennis Kauffman, Assistant City Manager/Chief Financial Officer

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, positioned above a horizontal line.

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-121

Financial Policies

RESOLUTION NO. 20-121

ADOPTING THE CITY OF ROSEVILLE FINANCIAL POLICIES,
EFFECTIVE JULY 1, 2020

WHEREAS, the City of Roseville Financial Policies, effective July 1, 2020, have been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the city of Roseville that the City of Roseville Financial Policies, effective July 1, 2020 are hereby adopted.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

City of Roseville Financial Policies



Effective July 1, 2020

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City of Roseville Investment Policy

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I. INTRODUCTION

The purpose of this document is to identify various policies and procedures that enhance opportunities for a prudent and systematic investment policy and to organize and formalize investment-related activities.

The investment policies and practices of the City of Roseville (City) are based on state law and prudent money management. All funds will be invested in accordance with this investment policy and Article 2 of Chapter 4 of the California Government Code. This policy is in compliance with the provisions of the California Government Code, Sections 53600 through 53659, and the authority governing investments for municipal governments.

II. SCOPE

The investment policy applies to all financial assets of the City as accounted for in the Comprehensive Annual Financial Report (CAFR). Policy statements outlined in this document focus on the City's pooled funds, but will also apply to all other funds under the City's Assistant City Manager/Chief Financial Officer's span of control unless specifically exempted by statute or ordinance.

Proceeds of debt issuance shall be invested in accordance with the permitted investment provisions of their specific bond indentures. If, in the opinion of the City's Assistant City Manager/Chief Financial Officer, matching the segregated investment portfolio of the bond reserve fund with the maturity schedule of an individual bond issue is prudent given current economic analysis, the investment policy authorizes beyond the five year maturity limitation as outlined in this document. The intent to invest in securities with longer maturities shall be disclosed in the permitted investment language authorized by the City Council in an indenture of trust.

The policy does not cover funds held by the Public Employees Retirement System nor funds of the Deferred Compensation program or the Other Post Employment Benefit Trust.

III. PRUDENCE

The standard of care to be used by investment officials shall be the "prudent investor" standard and shall be applied in the context of managing an overall portfolio. The "prudent investor" standard states that:

When investing, reinvesting, purchasing, acquiring, exchanging, selling, or managing public funds, a trustee shall act with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic conditions and the anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency.

Investment officers acting in accordance with written procedures and the investment policy and exercising due diligence shall be relieved of personal responsibility for an individual security's credit risk or market price changes, provided deviations from expectations are reported in a timely fashion and appropriate action is taken to control adverse developments.

IV. OBJECTIVES

The primary objectives, in priority order, of the investment activities of the City shall be:

A. Safety

Safety of principal is the foremost objective of the investment program. City investments shall be undertaken in a manner that seeks to ensure preservation of Capital in the portfolio. To further achieve the safety objective, the amount invested in all investment categories is limited to a percentage of the portfolio as defined in the section "VIII. PERMITTED INVESTMENT INSTRUMENTS".

B. Liquidity

The investment portfolio of the City will remain sufficiently liquid to enable the City to meet its cash flow requirements.

C. Return on Investment

The investment portfolio of the City shall be designed with the objective of attaining a market rate of return on its investments consistent with the constraints imposed by its safety objective and cash flow considerations.

V. DELEGATION OF AUTHORITY

The City Council hereby delegates management responsibility of the investment program to the Assistant City Manager/Chief Financial Officer. The Assistant City Manager/Chief Financial Officer shall be responsible for all transactions undertaken and shall establish a system of controls to regulate the activities of subordinate officials. The Assistant City

Manager/Chief Financial Officer may delegate investment decision making and execution to the Controller in absence of the Assistant City Manager/Chief Financial Officer. No person may engage in an investment transaction except as provided under the limits of this policy unless specifically exempted by statute or ordinance.

VI. ETHICS AND CONFLICT OF INTEREST

Officers and employees involved in the investment process shall refrain from personal business activities that could conflict with proper execution of the investment program, or which could impair their ability to make impartial decisions.

VII. AUTHORIZED FINANCIAL DEALERS AND INSTITUTIONS

The Assistant City Manager/Chief Financial Officer and/or his/her designee will maintain a list of approved financial institutions authorized to provide investment services to the City in the State of California. These may include “primary” dealers or regional dealers that qualify under Securities & Exchange Commission Rule 15C3-1. A determination should be made to insure that all approved broker/dealer firms, and individuals covering the public agency, are reputable and trustworthy. In addition, the broker/dealer firms should have the ability to meet all of their financial obligations in dealing with the Public Agency. The firms, and individuals covering the agency, should be knowledgeable and experienced in Public Agency investing and the investment products involved. No public deposit shall be made except in a qualified public depository as established by the established state laws. All financial institutions and broker/dealers who desire to conduct investment transactions with the public agency must supply the Assistant City Manager/Chief Financial Officer with a completed broker/dealer questionnaire and certification of having read the City’s investment policy. In addition, broker/dealers must certify annually of having read the City’s investment policy.

VIII. PERMITTED INVESTMENT INSTRUCTIONS

The City shall limit investments in any one non-government issuer, except investment pools, to no more than 5% regardless of security type.

- A. **U.S. Treasury obligations** for which the full faith and credit of the United States are pledged for the payment of principal and interest. Up to 100% of the City’s investment portfolio may be invested in government obligations.
- B. **Federal agency or United States government-sponsored enterprise obligations**, participations, or other instruments, including those issued by or fully guaranteed as to principal and interest by federal agencies or United States government-sponsored enterprises. This shall include any mortgage pass through security issued and guaranteed by a Federal Agency with a maximum final maturity of five years. Purchase of Federal Agency issued mortgage-backed

securities authorized by this subdivision may not exceed 20% of the City's surplus money; all other investments in Federal Agency securities are unrestricted.

- C. **Obligations of the State of California or any local agency within the state**, including bonds payable solely out of revenues from a revenue producing property owned, controlled or operated by the state or any local agency or by a department, board, agency or authority of the state or any local agency, provided that the obligations are rated in one of the two highest categories by a nationally recognized statistical-rating organization (NRSRO). Up to 100% of the City's investment portfolio may be invested in California municipal obligations.
- D. **Registered treasury notes or bonds of any of the other 49 states** in addition to California, including bonds payable solely out of the revenues from a revenue-producing property owned, controlled, or operated by a state or by a department, board, agency, or authority of any of these states.
- E. **Repurchase Agreements** used solely as short-term investments not to exceed 30 days. Up to 100% of the City's investment portfolio may be invested in repurchase agreements.

The following collateral restrictions will be observed:

1. Only U.S. Treasury securities or Federal Agency securities, as described in section VIII. PERMITTED INVESTMENT INSTRUMENTS, paragraph (A) and (B) will be acceptable collateral. All securities underlying Repurchase Agreements must be delivered to the City's custodian bank by book entry, physical delivery, or by a third party custodial agreement. The total of all collateral for each Repurchase Agreement must equal or exceed, on the basis of market value, 102% of the funds borrowed against those securities. For any Repurchase Agreement with a term of more than one day, the value of the underlying securities must be reviewed on a weekly basis and the value of the underlying securities brought back up to 102% no later than the next business day.
2. Market value must be calculated each time there is a substitution of collateral.
3. The City or its trustee shall have a perfected first security interest under the Uniform Commercial Code in all securities subject to Repurchase Agreement.
4. The City may enter into Repurchase Agreements only with primary dealers of the Federal Reserve Bank of New York.

5. The City will have specific written agreements with each firm with which it enters into Repurchase Agreements.
6. Reverse repurchase agreements will not be allowed.

F. **Banker's Acceptances**, otherwise known as bills of exchange or time drafts that are drawn on and accepted by a commercial bank.

Purchases of Banker's Acceptances may not exceed 180 days maturity or 40% of the City's investment portfolio.

G. **Commercial paper** of "prime" quality of the highest ranking or of the highest letter and number rating as provided for by a NRSRO. The entity that issues the commercial paper shall meet all of the following conditions in section "VIII. PERMITTED INVESTMENT INSTRUMENTS", paragraph (G1) or (G2).

1. The entity meets the following criteria:
 - a. Is organized and operating in the United States as a general corporation.
 - b. Has total assets in excess of five hundred million dollars (\$500,000,000).
 - c. Has debt other than commercial paper, if any, that is rated "A" or higher by a NRSRO.
2. The entity meets the following criteria:
 - a. Is organized within the United States as a special purpose corporation, trust, or limited liability company.
 - b. Has program wide credit enhancements including, but not limited to, over collateralizations, letters of credit, or surety bond.
 - c. Has commercial paper that is rated "A-1" or higher, or the equivalent, by a NRSRO.

Purchases of eligible commercial paper may not exceed 270 days maturity nor represent more than 10% of the outstanding paper of an issuing corporation.

Purchases of commercial paper may not exceed 25% of the City's investment portfolio.

- H. **Medium-term corporate notes** issued by corporations organized and operating within the United States or by depository institutions licensed by the U.S. or any state and operating within the U.S. Medium-term corporate notes shall be rated in a rating category "A" or its equivalent or better by a nationally recognized rating service.

Purchase of medium-term corporate notes may not exceed 30% of the City's investment portfolio.

- I. **FDIC insured or fully collateralized time certificates of deposit.** Purchases of time certificates of deposit in combination with negotiable certificates of deposit may not exceed 30% of the City's investment portfolio.

- J. **Negotiable certificates of deposit or deposit notes** issued by a nationally or state-chartered bank, a state or federal savings and loan association, a state or federal credit union, or a federally-licensed or state-licensed branch of a foreign bank provided that the senior debt obligations of the issuing institution are rated "A" or better by an NRSRO.

The legislative body of a local agency and the treasurer or other official of the local agency having legal custody of the money are prohibited from investing local agency funds, or funds in the custody of the local agency, in negotiable certificates of deposit issued by a state or federal credit union if a member of the legislative body of the local agency or any person with investment decision making authority in the administrative office manager's office, budget office, auditor-controller's office, or treasurer's office of the local agency also serves on the board of directors, or any committee appointed by the board of directors, or the credit committee or the supervisory committee of the state or federal credit union issuing the negotiable certificates of deposits.

All certificates of deposit must be properly collateralized in accordance with Section 53652 of the California Government Code or fully insured by the Federal Deposit Insurance Corporation (FDIC).

Purchase of time certificates of deposit in combination with negotiable certificates of deposit may not exceed 30% of the City's investment portfolio.

- K. **State of California's Local Agency Investment Fund**

The Local Agency Investment Fund (LAIF) portfolio should be reviewed periodically. Investment in LAIF may not exceed the legally authorized limits.

- L. **Shares of beneficial interest issued by diversified management companies that are money market funds registered with the Securities and Exchange Commission** under the Investment Company Act of 1940 (15 U.S.C. Sec. 80a-1, et seq.). To be eligible for investment pursuant to this subdivision these companies shall either: (1) have attained the highest ranking or the highest letter and numerical rating provided by not less than two nationally recognized statistical rating organizations or (2) have an investment advisor registered or exempt from registration with the Securities and Exchange Commission with not less than five years' experience managing money market mutual funds and with assets under management in excess of \$500,000,000.

The purchase price of shares of beneficial interest purchased shall not include any commission that the companies may charge and shall not exceed 20% of the City's investment portfolio. Further, no more than 10% of the City's investment portfolio may be invested in shares of beneficial interest of any one money market fund.

- M. **Shares in a California common law trust** established pursuant to Title 1, Division 7, Chapter 5 of the Government Code of the State of California that invests exclusively in investments permitted by Section 53635 of Title 5, Division 2, Chapter 4 of the Government Code of the State of California, as it may be amended. Up to 100% of the City's investment portfolio may be invested in this investment type.

- N. **Supranationals** are United States dollar denominated senior unsecured unsubordinated obligations issued or unconditionally guaranteed by the International Bank for Reconstruction and Development (IBRD), International Finance Corporation (IFC), or Inter-American Development Bank (IADB), with a maximum remaining maturity of five years or less, and eligible for purchase and sale within the United States. Investments under this subdivision shall be rated "AA-", its equivalent, or better by an NRSRO.

Purchases of supranationals shall not exceed 30% of the investment portfolio of the City. Supranationals are permitted by California Government Code § 53601 (q) effective January 1, 2015.

- O. **A mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-back certificate, consumer receivable pass-through certificate, or consumer receivable-backed bond.** Securities eligible for investment under this subdivision shall be rated in a rating category of "AA" or its equivalent or better by an NRSRO and have a maximum remaining maturity of five years or less. No more than 20% of the City's surplus funds may be invested in this type of security.

Where this section specifies a percentage limitation for a particular category of investment, that percentage is applicable only on the date of purchase. Credit criteria listed in this section refers to the credit of the issuing organization at the time the security is purchased. If an investment falls below the minimum purchase rating, the Investment Review Committee will perform a timely review to sell or hold the investment.

P. Prohibited Investments

For purposes of this policy, a derivative is defined as any security where the value is linked to or derived from an underlying asset or benchmark. Any security type or structure not specifically approved by this policy is hereby specifically prohibited. The City will not use such derivatives as range notes, dual index notes, inverse floating rate notes, deleveraged notes, or notes linked to lagging indices or to long term indices, nor will the City invest in reverse repurchase agreements, interest-only strips that are derived from a pool of mortgages, or any security that could result in zero interest accrual if held to maturity. This policy does not preclude the use of repurchase agreements and callable securities, as they do not fall within the definition of a derivative as described herein.

Summary of Maximum Percentage Limitations of Investments by Investment Type

Authorized Investment Type	Maximum Maturity	Minimum Credit Quality at Time of Purchase	Maximum Percentage Allowed	Maximum Investment In One Issuer
U.S. Treasury Obligations	5 Years	None	None	None
U.S. Agency Securities	5 Years	None	None	None
Forward Delivery Agreements	N/A	A	None	None
Local Agency Bonds	5 Years	None	None	None
Repurchase Agreements	30 days	None	None	None
Bankers' Acceptances	180 days	None	40%	30%
Commercial Paper	270 days	A-1	25%	10%
Medium-Term Notes	5 Years	A	30%	5%
Collateralized Time Deposits	5 Years	None	30%	None
Negotiable Certificates of Deposit	5 Years	A	30%	None
Local Agency Investment Fund (LAIF)	N/A	None	None	LAIF limit
Insured Saving Accounts	N/A	None	None	None
Money Market Mutual Funds	N/A	None	20%	10%
Shares in a California Common Law Trust	N/A	None	None	None
Interest Rate Swaps	N/A	None	None	None
Supranationals	5 Years	AA-	30%	None
Mortgage Pass-Through Securities	5 Years	AA	20%	None

IX. REVIEW OF INVESTMENT PORTFOLIO

The securities held by the City must be in compliance with Permitted Investments at the time of purchase. Because some securities may not comply subsequent to the date of purchase, the Assistant City Manager/Chief Financial Officer shall at least annually review the portfolio to identify those securities that do not comply. The Assistant City Manager/Chief Financial Officer shall report major and critical incidences of noncompliance identified through the review of the portfolio.

The Investment Review Committee will meet at least quarterly to discuss the investments in the City's portfolios.

X. INVESTMENT POOLS

A thorough investigation of any investment pool is required prior to investing and should be monitored on an ongoing basis. The following information should be obtained and analyzed.

- A. A description of eligible of investment securities.
- B. A written statement of investment policies and objectives.
- C. A description of interest calculations and their distribution, and the treatment of gains and losses.
- D. A description of how the securities are safeguarded (including the settlement processes), and how often the securities are priced and the program audited.
- E. A description of who may invest in the program, how often, and what size of deposits and withdraws are allowed.

XI. COLLATERALIZATION

Collateral for Non-negotiable Certificates of Deposit and Negotiable Certificates of Deposit must comply with California Government Code section 53652. In addition, if the Certificate of Deposit is not FDIC insured, collateral is required equal to 110% of principal.

XII. SAFEKEEPING AND CUSTODY

The City shall take from such financial institution a receipt for securities so deposited. All security transactions, including collateral for repurchase agreements, entered into the City shall be conducted on a delivery-versus-payment (DVP) basis pursuant to the approved custodial safekeeping agreements. The authority of the legislative body to deposit for safekeeping may be delegated by the legislative body to the Assistant City Manager/Chief Financial Officer of the City; the Assistant City Manager/Chief Financial Officer shall not be responsible for securities delivered to and receipted for by a financial institution until they are withdrawn from the financial institution by the Assistant City Manager/Chief Financial Officer.

XIII. DIVERSIFICATION

The City's investment pool will be diversified to avoid incurring unreasonable and avoidable risks. The investments will be diversified by security type, maturities of those investments, and institutions in which those investments are made.

XIV. MAXIMUM MATURITY

Investment maturities shall be based on a review of cash flow forecasts. Maturities will be scheduled so as to permit the City to meet all projected obligations while minimizing interest rate risk and maximizing earnings. Unless specified below, the maximum maturity will be no more than five years from purchase date to maturity date.

City Council has granted permission to invest the following fund accounts where liquidity is not the primary investment objective, in Federal Treasury or Agency securities with maturities up to ten years. The specified fund accounts include:

- The City's Pooled Fund, limited to 25% of the total pool
- Citizens' Benefit Trust
- North Central Wetlands Endowment
- Aquatics Complex Maintenance
- Woodcreek West Endowment

XV. INTERNAL CONTROLS

The Assistant City Manager/Chief Financial Officer is responsible for establishing and maintaining an internal control structure designed to ensure that the assets of the City are protected from loss, theft, fraud or misuse. An analysis by an external independent accounting firm shall be conducted annually to review internal controls, account activity, and compliance with the investment policies.

XVI. PERFORMANCE BENCHMARK

The investment portfolio will be designed to obtain a market rate of return during budgetary and economic cycles, taking into account the City's investment risk constraints and cash flow needs. The Investment Review Committee has elected to use for its performance standard the Constant Maturity Treasury (CMT) Index. For the Pooled Portfolio, the 12 month moving average yield on 3Yr CMT will be used and for Citizens' Benefit Trust portfolio, the 12 month moving average yield on 5Yr CMT will be used. All other City portfolios will follow the 2Yr CMT.

XVII. REPORTING REQUIREMENTS

The Assistant City Manager/Chief Financial Officer shall submit monthly investment reports to the City Manager and make these reports available to the City Council in the Finance Department office. The reports shall include, at a minimum, the following information for each individual investment:

- Description of investment instrument
- Issuer name

- Yield on cost
- Purchase date
- Maturity date
- Book value
- Par value
- Current market value
- Transaction activity
- Interest earnings summary

XVIII. INVESTMENT POLICY ADOPTION

The City's investment policy shall be adopted by resolution by the City Council. The policy shall be reviewed annually by the Assistant City Manager/Chief Financial Officer and/or his/her designee and any modifications made thereto must be approved by the City Council.

XIX. GLOSSARY

Agencies - Federal agency and instrumentality securities.

Asked - The price at which securities are offered.

Bid - The price offered by a buyer of securities (when one sells securities, one asks for a bid). See "Offer".

Benchmark - A comparative base for measuring the performance or risk tolerance of the investment portfolio. A benchmark should represent a close correlation to the level of risk and the average duration of the portfolio's investments.

Broker-Dealer – a person or a firm who can act as a broker or a dealer depending on the transaction. A broker brings buyers and sellers together for a commission. They do not take a position. A dealer acts as a principal in all transactions, buying and selling for his own account.

Certificate of Deposit (CD) – A time deposit with a specific maturity evidenced by a Certificate. Large-denomination CDs are typically negotiable.

Collateral – Securities, evidence of deposit or other property, which a borrower pledges to secure repayment of a loan. Also refers to securities pledged by a bank to secure deposits of public monies.

Custody – Safekeeping services offered by a bank, financial institution or trust company, referred to as the "custodian." Service normally includes the holding and reporting of

the customer's securities, the collection and disbursement of income, securities settlement and market values.

Delivery Versus Payment –A type of securities transaction in which the purchaser pays for the securities when they are delivered either to the purchaser or custodian. It ensures that securities are deposited in an eligible financial institution prior to the release of funds. Securities should be held by a third-party custodian as evidenced by safekeeping receipts.

Diversification – Dividing investment funds among a variety of securities offering independent returns.

Federal Agency Obligation – A debt instrument issued by one of the federal agencies. Federal agencies are considered second in credit quality and liquidity only to U.S. Treasuries.

Investment Review Committee –The investment review committee consists of the City Manager, Assistant City Manager/Chief Financial Officer and members of the Finance Department.

Liquidity – An investment that can be converted easily and rapidly into cash without a substantial loss of value.

Local Agency Investment Fund (LAIF) – The aggregate of all funds from political subdivisions that are placed in the custody of the State Treasurer for investment and reinvestment.

Market Value – The price at which a security is trading and could presumably be purchased or sold on a specific date.

Maturity – The date upon which the principal or stated value of an investment becomes due and payable.

Money Market Fund – a type of safe investment comprising a variety of short-term securities with high quality and high liquidity. The fund provides interest to shareholders and must maintain a stable net asset value (NAV) of \$1 per share.

Offer - The price asked by a seller of securities (when one buys securities, one asks for an offer). See "Asked" and "Bid".

Portfolio – Collection of securities held by an investor.

Principal – the original cost of a security. It represents the amount of capital or money that the investor pays for the investment.

Prudent Investor Standard – An investment standard that all investments should be made with care, skill, prudence and diligence under the circumstances then prevailing, including, but not limited to, the general economic conditions and the anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency.

Rate of Return - The yield obtainable on a security based on its purchase price or its current market price. This may be the amortized yield to maturity; on a bond, the current income return.

U.S. Treasury – Government debt issued by the United States Department of the Treasury through the Bureau of the Public Debt. Treasury securities are the debt financing instruments of the United States federal government, and they are often referred to simply as Treasuries. There are four types of marketable treasury securities: Treasury bills, Treasury notes, Treasury bonds, and Treasury Inflation Protected Securities (TIPS). All of the marketable Treasury securities are very liquid and are heavily traded on the secondary market.

Yield - The rate of annual income return on an investment, expressed as a percentage.

Yield-To-Call (YTC) - The rate of return an investor earns from a bond assuming the bond is redeemed (called) prior to its nominal maturity date.

Yield-To-Maturity - The current income yield minus any premium above par or plus any discount from par in purchase price, with the adjustment spread over the period from the date of purchase to the date of maturity.

City of Roseville

Debt Management Policy

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I. INTRODUCTION

The Finance Department of the City of Roseville (the “City”) has developed this Debt Management Policy (the “Debt Policy”) to provide guidelines for the issuance of bonds and other forms of indebtedness to finance necessary land acquisitions, capital construction, equipment, and other items for the City.

While the issuance of debt is frequently an appropriate method of financing capital projects and major equipment acquisitions, such issuance must be carefully monitored to preserve the City’s credit strength and to provide the necessary flexibility to fund future capital needs.

II. SCOPE

This Debt Policy shall govern, except as otherwise covered by the law, City Charter and City Code, the issuance and management of all debt and lease financings funded in the capital markets. While adherence to the Debt Policy is desired, the City recognizes that changes in the capital markets as well as unforeseen circumstances, may from time to time produce situations that are not covered by the Debt Policy and may require modifications or exceptions to achieve City goals.

The City’s Debt Policy shall be reviewed, and updated if necessary, on an annual basis. The Chief Financial Officer (CFO) with the assistance of the General Accounting staff shall have the responsibility and authority for structuring, implementing and managing the City’s debt and financing program, in accordance with City Council authorizations.

III. OBJECTIVES

The City has earned some of the highest credit ratings in the nation and as a result receives some of the lowest possible interest rates on its debt. These low interest rates result in a lower overall cost of capital to the City. This Debt Policy will assist the City in determining appropriate uses of debt financing, establish certain debt management goals and assist the City in maintaining its high credit ratings, while assuming a prudent level of financial risk and preserving the City’s flexibility to finance future capital programs and requirements. Additionally, this Debt Policy is intended to set forth criteria for selecting firms to provide certain financial, legal, and other related services that will ensure that a fair and open selection process is used which provides opportunities for all qualified firms, including minority and women owned businesses.

IV. DEBT ISSUANCE

There are three general methods of issuing debt obligations, a competitive sale, negotiated sale and private placement.

A. Types of Bond Sales

1. Competitive Sale

In a competitive sale, security dealers submit bids either in a sealed bid or electronically secure process and the security dealer with the lowest True Interest Cost (TIC) and in compliance with the bid parameters is awarded the bonds.

2. Negotiated Sale

In a negotiated sale, an underwriter or underwriter syndicate is selected through a Request for Qualifications (RFQ) process or a Request for Proposal (RFP) process. The interest rate and underwriter's fee are negotiated prior to the sale, based on market conditions.

3. Private Placement/Bank Direct Purchase (BDP)

A private placement or bank direct purchase is a sale that is structured specifically for one purchaser, such as a mutual fund or a bank. BDPs are usually quicker and less expensive for municipalities than competitive or negotiated bond sales because they impose fewer requirements on the issuer. The interest rate may be a fixed or variable rate, as agreed between the issuer and purchaser. The term of the bonds may range from under 10 years to 15 years or not much longer, as agreed between the issuer and purchaser. The bonds may or may not be tax-exempt bonds for federal income tax purposes. If the CFO, or his/her designee, determines that it is in the best interest of the City from a cost or administrative standpoint, the Finance Department may negotiate financing terms with banks and financial institutions for specific borrowings.

It shall be the policy of the City to ensure the lowest risk and lowest overall interest rate to the City when issuing debt either through a competitive sale, negotiated sale or private placement, where appropriate. The City shall use the following criteria to determine whether a competitive or negotiated sale should be used.

B. Issuer Characteristics

1. Market Familiarity

A frequent issuer of a well-recognized credit such as general obligation bonds can generally sell these bonds through a competitive sale since investors and underwriters are familiar with the quality of the credit. A negotiated sale may be appropriate if extensive pre-marketing to investors is desired or required.

2. Credit Strength

The higher the credit quality of the bonds being issued, the more likely the bonds can be sold using a competitive sale due to the high demand for high quality municipal bonds. High quality credits fare well in competitive sales.

3. Policy Goals

A competitive sale does not provide the City with the flexibility of choosing the underwriter or underwriter syndicate. If the CFO concludes that determining the composition of the underwriter syndicate to achieve certain policy objectives is important, then a negotiated sale will be required. However, if the CFO selects the negotiated sale solely for policy reasons then the specific rationale and criteria for selection should clearly be specified.

C. Financing Characteristics

1. Type of Debt Instrument

The market favors familiar debt instruments such as general obligation bonds backed by the full faith and credit of the City. New credit types may require an education process that is more conducive to a negotiated sale until the market becomes comfortable with the credit.

2. Issue Size

The size of the bond sale will influence both investor interest in the bonds and the market's ability to absorb the bonds. In general if the bond sale is too small or too large, a negotiated sale may be necessary. A small sale may require greater marketing to garner investor interest while a

large sale may be difficult for the market to absorb without the presale activity available in the negotiated sale process.

3. Market Conditions and Timing

During periods of stable interest rates, market timing is not as critical. However, during periods of volatile interest rates, the timing of the sale becomes more critical. Bond refundings are also often very interest rate sensitive in terms of the potential level of savings or the general feasibility of the refunding. The negotiated sale provides more flexibility in terms of the structure of the bond sale as well as the timing of the bond sale and may be more appropriate when issuing refunding bonds and when interest rates are volatile.

4. Story Bonds

Bonds that require a detailed explanation due to the complexity of the credit or the repayment of the bonds are often referred to as “Story Bonds”. Due to their complexity and the additional explanation these bonds require, an extensive pre-marketing campaign is necessary. Story Bonds often require a negotiated sale composed of an underwriting syndicate that is qualified to market the bonds in order to obtain the lowest financing cost for the City.

V. FINANCIAL SERVICE PROVIDERS

A. Selection

In connection with debt financings, financial advisors, underwriters, and other service providers will be selected from a Qualified Vendors List (QVL) developed through a periodic Request for Qualifications (RFQ) process or, for individual financings, through a Request for Proposals (RFP) process, whichever method is deemed most appropriate given the specifics of the financing. At the discretion of the CFO, contracts may be awarded on a sole source basis if it is clear that an RFQ/RFP process is not feasible or not in the best interest of the City.

For competitive sales, any security dealer meeting the qualification criteria outlined in the competitive bid notice may bid in the competitive sale. For negotiated sales, only those underwriters qualified under the RFQ/RFP process may be selected. Underwriters or underwriter syndicates will be selected by the CFO. The allocation of bonds among syndicate members will be at the sole discretion of the CFO with the approval of the City Manager or his/her designee.

B. Use of Independent Financial Advisors

The City will hire financial advisors who are independent. In the event the best available financial advisor is an investment banking firm, the firm will under no circumstances be permitted to participate as the lead underwriter or as a member of an underwriter syndicate that is bidding on the bonds for which the firm is acting as a financial advisor. In addition, if the firm has any profit sharing or other type of agreement with any member of the underwriting syndicate for the transaction in question, they will not be allowed to act as the financial advisor. In general, no agreement will be permitted that would compromise the firm's ability to provide independent advice or that could be reasonably perceived by the City as a conflict of interest. Advisors must alert the CFO, in writing, of any conflict, potential conflict, or potentially perceived conflict prior to entering into an agreement with the City, or if occurring after entering into an agreement with the City, as soon as the conflict, potential conflict, or potentially perceived conflict arises.

C. Communication/Solicitation

All financial consultants, including all investment banking firms, financial advisors, bond counsel, and other consultants hired in connection with any bond transaction will direct all communications, solicitations and questions to the CFO or his/her designee. Underwriters are reminded that under Rule G-37 of the Municipal Securities Rulemaking Board (MSRB) that a firm may be banned from providing underwriting services to the City for two years for making any political contributions to elected City officials.

VI. DEBT MANAGEMENT PROCESS – TAX STATUS

Prior to the issuance of any bonds, the Finance Department, in conjunction with bond counsel and the City Attorney's Office will evaluate the tax status of any bond sales.

A. Tax-Exempt

Interest on tax-exempt bonds is excluded from the gross income of its owners for federal income tax purposes and from California income taxes and as a result tax-exempt bonds can be sold at a lower true interest cost than taxable bonds. The City, along with bond counsel, will evaluate all projects to be funded to assess their eligibility to be funded by tax-exempt bonds. The City will make every effort to ensure that all tax regulations are complied with to ensure the bonds maintain their tax-exempt status.

B. Taxable

Certain municipal bonds are sold as taxable bonds because they are issued for purposes that the federal government deems do not provide a significant benefit to the public at large or involve “private activity”. In addition, certain tax laws such as the alternative minimum tax (AMT) reduced the tax exemption applicable to certain types of bonds and to certain taxpayers. Taxable bonds will be used whenever a particular project has the potential for private activity or other uses that may call into question the eligibility to use tax-exempt financing.

VII. DEBT MANAGEMENT PROCESS – TYPE OF DEBT

A. Fixed Rate Debt

Longer term debt usually consists of fixed interest rates over the term of the bonds and should be used to finance essential capital facilities, projects and certain equipment where it is appropriate to spread the cost of the project over more than one budget year and generally for a period not to exceed the useful life of the project being financed. In so doing, the City recognizes that future taxpayers who will benefit from the project will pay a share of its cost. Fixed rate debt provides the benefit of fixed payments during the life of the bonds and budget certainties for long-term capital planning. However, fixed rate debt is typically longer term and carries higher interest payments (assuming an upward sloping yield curve) than variable rate debt but is not subject to changes in interest rates. Fixed rate debt is the most common type of debt issued by the City.

B. Variable Rate Debt

The municipal bond market has developed several vehicles by which municipalities can borrow at short-term, variable interest rates. Variable Rate Demand Notes may be issued with interest rates that “reset” daily, weekly, monthly or semiannually at the option of the City. Commercial paper is issued with a maturity of up to 270 days at the City’s option. As the commercial paper matures, it is resold by a commercial paper dealer for another period up to 270 days.

These products are structured as a rolling series of short-term investments and therefore are priced at the short-end of the yield curve at lower interest rates than long-term fixed rate bonds (assuming an upward sloping yield curve). By accepting the risks inherent in variable interest rates, the City can take advantage of the lowest rates available in the current market.

Factors that will be considered in the use of variable rate debt are the availability and size of fund balances to cover variable rate risk, and the budget flexibility of the program being financed. Programs with large complex capital programs may use short-term financing to fund uncertain construction cash flow requirements. The short-term debt can be refinanced as fixed-rate, long term debt once the projects are complete. A project that must be carried in anticipation of grant funding may also be a candidate for the use of variable rate financing. Examples are the Electric, Water, and Wastewater enterprise funds.

C. Use of Alternative Debt Instruments

1. Derivative Products

The use of certain derivative products, such as swaps, swaptions and the sale of call options, allow the City to realize lower all-in costs on a new debt issuance or to receive an upfront payment. One type of swap that may be used would allow the City to issue variable rate debt in exchange for fixed payments that are typically lower than fixed rate debt. However, such products have unique risks that the City and its financial advisors will evaluate as per the City's Swap Policy. The current Swap Policy is included in Appendix A.

VIII. DEBT MANAGEMENT PROCESS – DEBT CAPACITY

The determination of how much indebtedness the City can afford begins by assessing the sufficiency of future revenues. The amount of debt issued is based on the requirements of the approved 5-year CIP, subject to the condition that sufficient revenues are projected to be available. Factors such as debt service coverage requirements outlined in the bond indentures, the impact on the citizens (tax rates), and any impact on the bond ratings will be carefully considered. Different factors are considered for each type of credit. For example, Revenue or Certificates of Participation bonds for electric, water and wastewater bonds will consider the impact on customer utility bills. In the case of general obligation debt, State Statutes and the Constitution limit the amount of debt that a municipality can have outstanding.

IX. DEBT MANAGEMENT PROCESS – SECURITY OF DEBT

A. General Obligation (G.O.) Bonds

G.O. bonds are backed by the full-faith and credit of the City and are secured by secondary property taxes.

B. Revenue Bonds

Revenue bonds are supported solely from fees generated from specific Enterprise Funds. Accordingly, in order to preserve debt capacity and budget flexibility, the City will issue revenue bonds when an identifiable revenue stream can be dedicated to support the payment of debt service. The final maturity of revenue obligations will be determined by the expected life of the project to be financed and the revenues available to repay the debt. The City's various Enterprise Funds – Electric, Water, and Wastewater issue bonds backed by revenues of the enterprise. Revenue bonds are generally issued through the Roseville Finance Authority.

C. Certificates of Participation (COP) Bonds

COP bonds are an instrument evidencing a pro rata share in a specific pledged revenue stream, usually lease payments by the issuer that are typically subject to annual appropriation. The certificate generally entitles the holder to receive a share, or participation, in the payments from a particular project. The payments are passed through the lessor to the certificate holders. The lessor typically assigns the lease and the payments to a trustee, which then distributes the payments to the certificate holders.

D. Housing Bonds

Tax-exempt housing bonds are an important source of capital, providing loans for single-family homeownership and rental housing for very-low, low and moderate-income individuals and families. The relatively low tax-exempt interest rates, combined with federal, state, and local housing assistance programs, provide the necessary subsidy to create a supply of much needed, below market interest-rate loans.

E. Community Facilities District (CFD) Bonds

CFD bonds are issued and backed entirely by a Community Facilities District established under State Statutes for the purpose of managing and financing public improvements within the district boundaries. Any CFDs established in the City are reviewed by the Finance Department and the Finance Department will supervise the issuance of the debt on behalf of the CFD with the CFD paying all costs of issuance including administrative support. The creation of a CFD must be approved by City Council and follow a detailed legal process. Please refer to Appendix B for additional Goals and Policies concerning CFD bonds.

F. Special Assessment Bonds

Special assessment bonds are a special type of municipal bond used to fund development projects that benefit a discrete group of taxpayers within a special assessment district. Principal and interest owed on the bonds is paid from assessments on the property benefiting from the particular bond-funded project. The creation of an Assessment District must be approved by City Council and follow a detailed legal process.

X. DEBT MANAGEMENT PROCESS – PURPOSE OF FINANCING

Generally, financings may be undertaken to fund new projects “new money financing” or to refund existing bonds.

A. New Money Financing

New money issues are those financings that generate funding for capital projects. These funds will be used for necessary land acquisitions, capital construction, equipment, and other items for the City. New money bond proceeds are generally not used to fund operational activities. The City also may use its commercial paper programs to provide interim new money funding. The commercial paper notes are retired upon receipt of bond proceeds from a long-term fixed rate financing.

B. Refunding Bonds

A periodic review of the City’s outstanding debt will be undertaken by the Finance Department to determine refunding opportunities.

Refunding bonds are issued to retire all or a portion of an outstanding bond issue. Most typically this is done to refinance at a lower interest rate to reduce overall debt service. Alternatively, some refundings are undertaken for reasons other than to achieve cost savings, such as to restructure debt service payments, to change the type of debt instruments being used, or to eliminate undesirable covenants.

In any event, a present value savings analysis must be prepared that identifies the economic effects of any refunding being considered by the City. The savings from any particular refunding candidate shall generally be at least 5% of the refunded par amount, net of all transaction expenses. This 5% savings target may be waived by the CFO, or his/her designee, upon a finding that such a refunding is in the City's best overall financial interest and shall not be applicable for refunding transactions that are not solely undertaken to achieve cost savings.

XI. DEBT MANAGEMENT PROCESS - CREDIT RATINGS

The City seeks to obtain and maintain the highest possible credit ratings for all categories of short- and long-term debt. The City will not issue bonds that do not carry investment grade ratings.

A. Rating Agency Relationships

The CFO, or his/her designee, shall be responsible for maintaining relationships with rating agencies that assign ratings to the City's various debt obligations. This responsibility shall include coordinating meetings and presentations in conjunction with the issuance of debt. Full disclosure of operations and open lines of communication shall be maintained with the rating agencies used by the City.

B. Use of Rating Agencies

The City may obtain a rating from at least one nationally recognized rating agency on all new bond issues being sold in the public market. The CFO, or his/her designee, shall determine whether or not any additional ratings will be requested on a particular financing. The CFO, or his/her designee, shall determine which major rating agencies will be asked to provide a rating. Exceptions to this requirement, such as when using a private placement, are permissible, if warranted by the circumstances and approved by the CFO, or his/her designee.

The City and/or the financing team shall notify the rating agencies by telephone or through written correspondence when the City anticipates issuing bonds. Bond documentation shall be sent several weeks prior to the bond sale to the selected rating agencies in order to provide the rating agencies sufficient time to perform their review. A personal meeting with the selected rating agencies may be scheduled if, in the opinion of the CFO, or his/her designee, such a meeting is in the best interest of the City in order to obtain the highest possible credit rating.

The City shall make every reasonable effort to maintain or improve its high quality credit ratings.

The City may request an underlying rating and an insured rating on all bond issues utilizing bond insurance.

The City shall submit its audited comprehensive annual financial report to all rating agencies utilized by the City.

XII. DEBT MANAGEMENT PROCESS – CREDIT ENHANCEMENT

Although the City has high credit ratings, credit enhancement through the use of bond insurance or a bank facility such as a letter of credit to strengthen the underlying credit rating of certain bonds may be financially beneficial. Bonds insured by insurers rated AAA will also receive the AAA rating and thus be able to be sold at a lower interest rate. Bank facilities, such as letters of credit from highly rated banks, can also be used to provide credit enhancement.

A. Bond Insurance

Bond insurance will be considered when it provides an economic benefit to a particular bond maturity or entire issue. Bond insurance provides improved credit quality for the bonds as a result of the insurance provider's guarantee of the payment of principal and interest on the bonds. Because of the decreased risk of non-payment, investors are willing to purchase insured bonds at lower yields than uninsured bonds, thus providing the issuer with interest cost savings.

1. Benefit Analysis

The decision to use bond insurance is an economic decision. A benefit analysis compares the present value of the interest savings to the cost of the insurance premium. Insurance will be purchased when the premium cost is less than the present value of the projected interest savings. A copy of the benefit analysis shall be maintained in the files of the Finance Department.

2. Selection

The City or its financial advisor will undertake a competitive selection process when soliciting pricing for bond insurance, or in the case of a competitive sale, facilitating the prequalification of bonds by insurance providers. The City recognizes that all providers may not be interested in providing bids to the City or pre-qualifying the issue. The winning security dealer in a competitive sale will determine whether it will purchase insurance for the issue. For a negotiated sale, the CFO shall have the authority to purchase bond insurance when deemed advantageous and the terms and conditions governing the guarantee are satisfactory.

B. Bank Facilities (Letters of Credit)

When used for credit enhancement, letters of credit ("LOC") represent a bank's promise to pay principal and interest when due for a defined period of time,

subject to certain conditions. In the case of a direct-pay LOC, the trustee will draw upon the LOC to make debt service payments and the City will reimburse the LOC provider the amount drawn on the LOC by the trustee. A stand-by LOC is used to ensure the availability of funds to pay principal and interest of an obligation only if the funds in the debt service account held by the trustee are insufficient to make the debt service payment on the bonds.

XIII. DEBT MANAGEMENT PROCESS – STRUCTURAL FEATURES

A. Maturity

The final maturity of a bond sale shall be equal to or less than the remaining useful life of the assets being financed, and the average life of the financing shall not exceed 120% of the average useful life of the assets being financed.

B. Debt Service Structure

The Finance Department will carefully consider the debt service structure for each bond issue. Factors such as the flow of revenues available for a particular credit, the need to fill in gaps created by refunding specific principal maturities or to structure savings from a refunding in a particular year will be considered. Accelerated repayment may be considered within the bonding capacity constraints to provide capacity for future capital programs. Bonds will be amortized over a period of time not to exceed the useful life of the assets being financed.

C. Lien Levels

Senior, Junior and Subordinated Junior Liens for each revenue source will be utilized in a manner that will maximize the most critical constraint - typically either cost or capacity - thus allowing for the most beneficial use of the revenue source securing the bond.

D. Capitalized Interest

Subject to Federal and State law, interest may be capitalized from the date of issuance of the debt. Interest may also be capitalized for projects in which the revenue designated to pay debt service on the bonds will be collected at a future date, not to exceed six months from estimated completion of construction. Any use of capitalized interest will require a review by bond counsel and approval by the CFO.

XIV. INVESTMENT OF BOND PROCEEDS

The City shall comply with all applicable Federal, State, and Indenture restrictions, if any, regarding the use and investment of bond proceeds. This includes compliance with any restrictions on the types of investment securities allowed, restrictions on the allowable yield of invested funds as well as restrictions on the time period over which some bond proceeds may be invested. The CFO, or his/her designee, will direct the investment of bond proceeds in accordance with the permitted investments for each particular bond issue. Investments such as guaranteed investment contracts may be considered when their use is in the best interest of the City and will be selected on a competitive basis.

XV. CONTINUING DISCLOSURE

The City will comply when applicable with Rule 15(c)2-12 of the Securities and Exchange Commission by filing an annual report and annual financial information with the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System , and filing material event notices within 10 days of occurrence of certain events as required by the Rule.

XVI. ARBITRAGE REBATE

The City shall comply with all arbitrage rebate requirements as established by the Internal Revenue Service and the Finance Department shall establish a system of record keeping and reporting to meet the arbitrage rebate compliance requirements of the federal tax code. This effort shall include tracking project expenditures financed with bond proceeds, tracking investment earnings on bond proceeds, calculating rebate payments in compliance with tax law, and remitting any rebate earnings to the federal government in a timely manner in order to preserve the tax-exempt status of the City's outstanding tax-exempt debt issues. The CFO, or his/her designee, may enter into agreements with arbitrage service providers to assist the City with complying with arbitrage regulations.

XVII. POST ISSUANCE COMPLIANCE

The City shall comply with all applicable laws and regulations to ensure the tax-exempt status of its bonds. The Finance Department shall maintain written procedures to document the processes used to ensure compliance with applicable laws and regulations, and shall specify the positions and individuals responsible for these processes.

APPENDIX A

SWAP POLICY

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I. INTRODUCTION

The swap guidelines outlined herein are only intended to provide general procedural direction regarding the future use, procurement and execution of interest rate swaps and options. These guidelines are intended to relate to various interest rate hedging techniques, including the contractual exchange of different fixed and variable rate payment streams through interest rate swap agreements. The swap policies are not intended in any way to require the City to modify or terminate existing interest rate swaps. The City maintains the right to modify these guidelines and may make exceptions to any of them at any time in its sole discretion. Failure to comply in any manner with these swap guidelines shall not result in liability on the part of the City to any party.

II. APPROACH AND OBJECTIVES

Interest rate swaps and options are appropriate interest rate management tools that can help the City meet important financial objectives. Properly used, these instruments can increase the City's financial flexibility, provide opportunities for interest rate savings or enhanced investment yields, and help the City manage its balance sheet through better matching of assets and liabilities. Swaps should be integrated into the City's overall debt and investment management guidelines and should not be used for speculation.

Swaps are appropriate to use when they achieve a specific objective consistent with the City's overall financial strategies. Swaps may be used, for example, to lock-in a current market fixed rate or create additional variable rate exposure. Swaps may be used to produce interest rate savings, to alter the pattern of debt service payments, or for asset/liability matching purposes. Swaps may be used to cap, limit or hedge variable rate payments. Options granting the right to commence or cancel an underlying swap may be used to the extent the swap itself is consistent with these guidelines or the City determines there are other advantages to be derived in granting the option; however, the City must determine if the use of any such option is appropriate and warranted given the potential benefit, risks, and objectives of the City. The City's staff, together with its Bond Counsel and its Financial Advisor, periodically shall review the City's swap guidelines and recommend appropriate changes.

In connection with the use of any swaps, the City Council shall make a finding that, per Government Code Section 5922, the applicable swap is designed to reduce the amount or duration of the interest rate risk or result in a lower cost of borrowing when used in combination with the issuance or carrying of the Bonds or enhance the relationship between the risk and return with respect to the City's investments or program of investment, as applicable.

Rationales for Utilizing Interest Rate Swaps and Options

- A. Optimize capital structure; including schedule of debt service payments and/or fixed vs. variable rate allocations
- B. Achieve appropriate asset/liability match
- C. Reduce risk, including:
 - 1. Interest rate risk;
 - 2. Tax risk; or
 - 3. Liquidity renewal risk
- D. Provide greater financial flexibility
- E. Generate interest rate savings
- F. Enhance investment yields
- G. Manage exposure to changing markets in advance of anticipated bond issuances (through the use of anticipatory hedging instruments)

III. PERMITTED INSTRUMENTS

The City may utilize the following financial products on a current or forward basis, after identifying the objective(s) to be realized and assessing the attendant risks.

- A. Interest rate swaps, including fixed, floating and/or basis swaps; and
- B. Options, including swaptions, caps, floors, collars and/or cancellation or index-based features

IV. PROCEDURE FOR SUBMISSION AND EXECUTION

Unsolicited proposals are to be mailed to the Chief Financial Officer and the Financial Advisor for evaluation. Such unsolicited proposals need to be received four weeks prior to the next City Council meeting for consideration at such meeting. For proposals received within four weeks of the next City Council meeting, the City reserves the right to consider the proposal at the following month's Council meeting.

Legal costs incurred in connection with an unsolicited proposal shall be paid by the firm submitting the proposal if for whatever reason the proposal does not close or should the City elect for any reason not to proceed. If the City elects to proceed with the

proposed transaction and the proposed transaction closes, the City will absorb such legal costs through costs of issuance.

The City staff and the Financial Advisor shall review all unsolicited proposals prior to presentation to the City Council. The City shall only present proposals to the Council that the City, in its sole discretion, believes should be considered further given, for example, the projected savings or other benefits and the ability to meet one or more of the objectives outlined herein. Only proposals that meet the savings guidelines (as described in the “Guidelines for Financing and Selection of the Financing Team”) or that the City staff find compelling for other reasons, shall be presented.

Procurement and Execution

The City will not have a fixed guideline with respect to swap procurement. The City will assess the benefits of competitively bidding financial products that are non-proprietary or generally available in the marketplace. On a product-by-product basis, the City will have the authority to negotiate the procurement of financial instruments that have customized or specific attributes designed on the City’s behalf.

The use of financial derivative products will be recommended if they meet one of the benefits outlined herein or if they:

- A. Provide a specific benefit not otherwise available;
- B. Produce greater expected interest rate savings or incremental yield than cash market alternatives;
- C. Are not speculative or do not create unreasonable leverage or risk;
- D. Result in an improved capital structure or better asset/liability match; or
- E. Reasonably pass the risk evaluation required by these guidelines

Conformance with Dodd-Frank

It is the intent of the City to conform this policy to the requirements relating to legislation and regulations for over-the-counter derivatives transactions under Title VII of the Wall Street Transparency and Accountability Act of 2010, as supplemented and amended from time to time (herein collectively referred to as “Dodd-Frank”). Pursuant to such intent, it is the policy of the City that: (i) each swap advisor engaged or to be engaged by the City will function as the designated qualified investment representative of the City, sometimes referred to as the “Designated QIR”; (ii) each swap advisor agrees to meet and meets the requirements specified in Commodity Futures Trading Commission Regulation 23.450(b)(1) or any successor regulation thereto (herein

referred to as the “Representative Regulation”); (iii) each swap advisor provide a written certification to the City to the effect that such swap advisor agrees to meet and meets the requirements specified in the Representative Regulation; (iv) the City monitor the performance of each swap advisor consistent with the requirements specified in the Representative Regulation; (v) the City exercise independent judgment in consultation with its swap advisor in evaluating all recommendations, if any, presented by any counterparty with respect to transactions authorized pursuant to this Debt Policy; and (vi) the City rely on the advice of its swap advisor with respect to transactions authorized pursuant to this Debt Policy and not rely on recommendations, if any, presented by any counterparty with respect to transactions authorized pursuant to this Debt Policy.

Counter-Party Risk Assessment

The City will only do business with highly rated counter parties or counter parties whose obligations are supported by highly rated parties. The City will structure swap agreements to protect itself from credit deterioration of counter parties, including the use of credit support annexes or other forms of credit enhancement to secure counter party performance. Such protection shall include any terms and conditions which in the City’s sole discretion are necessary or appropriate or in the City’s best interest.

The City shall enter into interest rate swap transactions only with qualified swap counter parties. Qualified swap counter parties are investment banks as will be identified by the Financial Advisor. Qualified swap counter parties should be rated at least “Aa3” or “AA-” by one of the nationally recognized rating agencies (i.e. Moody’s, Standard and Poor’s, and Fitch) and not rated lower than “A2” or “A” by any nationally recognized rating agency. In addition, the counter party must have a demonstrated record of successfully executing swap transactions as well as creating and implementing innovative ideas in the swap market. Each counter party shall have minimum capitalization of at least \$150 million.

The City should not have an immutable credit standard. However, the City will attempt to do business with highly rated counter parties of “Aa3” or “AA-” or better. For lower rated (below “Aa3” or “AA-”) counter parties, the City should seek credit enhancement in the form of:

- A. Contingent credit support or enhancement; or
- B. Collateral consistent with the policies contained herein

V. SWAP ANALYSIS AND PARTICIPANT REQUIREMENTS

In connection with any swap, the City and its Financial Advisor shall review the proposed transaction and outline any considerations associated with the transaction to the City Council. Such a review should include the following:

- A. The identification of the proposed benefit and potential risks, which shall include, but not necessarily be limited to, those risks outlined herein
- B. Independent analysis of potential savings from a proposed transaction
- C. Fixed versus variable rate and swap exposure before and after the proposed transaction
- D. Market Net Termination Exposure (as outlined herein) for all existing and proposed transactions at the City

Swap Risks

- A. Counter party Risk – The risk of a payment default on a swap by an issuer’s counter party
- B. Termination Risk - The risk that a swap has a negative value and the issuer owes a “breakage” fee if the contract has to be liquidated
- C. Tax Risk – A mismatch between changes in the rate or price on an issuer’s underlying bonds and the swap caused by a reduction or elimination in the benefits of the tax exemption for municipal bonds, e.g. a tax cut, which results in an increase in the ratio of tax-exempt to taxable yields
- D. Basis Risk – A mismatch between the rate on an issuer’s underlying bonds and the rate paid under the swap, e.g. a tax-exempt variable rate issue which trades at 62% of LIBOR while the issuer only receives 60% of LIBOR under the swap
- E. Tax Exemption Risk – The risk that the transaction may make the issuer’s related bonds taxable
- F. Liquidity/Remarketing Risk – The risk that an issuer cannot secure a cost-effective renewal of a Letter or Line of Credit or suffers a failed auction or remarketing with respect to its variable-rate bonds

Benefit Expectation

Financial transactions, using fixed rate swaps or other derivative products, should generate 2% greater projected savings than the savings guidelines (as described in the “Guidelines for Financing and Selection of the Financing Team”) then in effect for traditional bonds. This threshold will serve as a guideline and will not apply should the transaction, in the City’s sole judgment, help to meet any of the objectives outlined herein. The higher savings target reflects the greater complexity and higher risk of derivative financial instruments. At a minimum, such financial transactions should provide a savings of no less than 5% over refunded par regardless of the spread between the financial transaction and a traditional bond refunding.

For example, assuming a refunding of \$100 million of existing bonds, a traditional fixed rate advance refunding that does not use derivative products would have a present value savings threshold of \$5 million, which is 5% of the refunded par. If the refunding structure utilizes a derivative product, the threshold would be \$7 million in present value savings, 7% of the refunded par. Therefore, the transaction utilizing a swap or other derivative product would have to generate an additional \$2 million to meet the target.

For variable rate or other swap transactions that do not result in a fixed interest rate, the City will evaluate any additional value generated through the transaction in assessing the benefits of proceeding, including the ability to meet the objectives outlined herein. These benefits include, for example, reducing interest rate or tax risk, optimizing the capital structure or further reducing interest expense.

In determining any benefit in implementing a fixed-to-variable swap, the cost of remarketing, in addition to the cost of credit enhancement or liquidity fees must be added to the projected variable rate. Such a calculation should consider the trading performance of comparable bonds and any trading premium resulting from a specific form of credit enhancement or liquidity and/or any impact related to broader industry trends.

VI. LEGAL AND CONTRACTUAL REQUIREMENTS

Unless otherwise approved by Council, the City will use standard ISDA swap documentation including the Schedule to the Master Agreement and a Credit Support Annex. The City may use additional documentation if the product is proprietary or the City deems in its sole discretion that such documentation is otherwise in its interest.

Terms and Notional Amount of Swap Agreement

The City shall determine the appropriate term for an interest rate swap agreement on a case-by-case basis. In connection with the issuance or carrying of bonds, the term of the

swap agreement between the City and a qualified swap counter party shall not extend beyond the final maturity date of existing debt of the City on the related Project, or in the case of a refunding transaction, beyond the final maturity of the refunding bonds. For purposes of calculating net exposure, credit shall be given to any fixed versus variable rate swaps that offset termination exposure for a specific Project or bond transaction. For variable rate transactions, credit may also be given for any assets that are used to hedge a transaction as long as in the City's judgment such assets are reasonably expected to remain in place on a coterminous basis with the swap.

Terms and conditions of any swap shall be negotiated by the City in the best interests of the City subject to the provisions of the California Government Code and, unless otherwise waived or altered by the City, these guidelines. The swaps between the City and each counter party shall include, as appropriate, payment, term, security, collateral, default, remedy, termination, and other terms, conditions and provisions as the City, in consultation with its Bond Counsel and Financial Advisor, deems necessary or desirable.

Subject to the provisions contained herein, the City swap documentation and terms should include the following:

- A. Downgrade provisions triggering termination shall in no event be worse than those affecting the counter party
- B. Governing law for swaps will be New York law, but should reflect California authorization provisions
- C. The specified indebtedness related to credit events in any swap agreement should be narrowly drafted and refer only to specific project debt
- D. Collateral thresholds should be set on a sliding scale reflective of credit ratings (see Collateral below)
- E. Eligible collateral as set forth in the Collateral section below.
- F. Termination value should be set by "market quotation" methodology, when the City deems appropriate
- G. The City should only agree to an Additional Termination Event for the City to the extent that the ratings on the applicable the City bonds fall below a ratings trigger acceptable to the City and the counter party and no form of credit support or enhancement is in place

Termination Provision

All swap transactions shall contain provisions granting the City the right to optionally terminate a swap agreement at any time over the term of the agreement. Such a provision shall be required even if any termination is at market. In general, exercising the right to terminate an agreement should produce a benefit to the City, either through the receipt of a payment from a termination or, if the termination payment is made by the City, in conjunction with a conversion to a more beneficial (desirable) debt obligation of the City.

Collateral

As part of any swap agreement, the City shall require collateralization or other forms of credit enhancements to secure any or all swap payment obligations. As appropriate, the City, in consultation with its Bond Counsel and Financial Advisor, may require collateral or other credit enhancement to be posted by each swap counter party under the following circumstances:

- A. Each counter party to the City may be required to post collateral if the credit rating of the counter party or parent falls below the “AAA” category. Additional collateral for further decreases in credit ratings of each counter party shall be posted by each counter party in accordance with the provisions contained in the collateral support agreement to each counter party with the City the City. Maximum un-collateralized exposure for: (i) “AAA” rated counter parties is \$40 million; (ii) “AA” rated counter parties is \$10 million; and (iii) below “AA” category, uncollateralized exposure is zero
- B. Threshold amounts shall be determined by the City on a case-by-case basis. The City will determine the reasonable threshold limits for the initial deposit and for increments of collateral posting thereafter
- C. Collateral shall be deposited with a third party trustee, or as mutually agreed upon between the City and the counter party
- D. A list of acceptable securities that may be posted as collateral and the valuation of such collateral will be determined and mutually agreed upon during negotiation of the swap agreement with each swap counter party. A complete list of acceptable securities and valuation percentages are included as Attachment A
- E. The market value of the collateral shall be determined on at least a monthly basis, or more frequently if the City determines it is in the City’s best interest given the specific collateral security

- F. It shall be determined on a case-by-case basis whether other forms of credit enhancement are more beneficial to the City

VII. LIMITATIONS ON TERMINATION EXPOSURE

In order to diversify the City's counter party credit risk, and to limit the City's credit exposure to any one counter party, limits will be established for each counter party based upon both the credit rating of the counter party as well as the relative level of risk associated with each existing and projected swap transaction. The guidelines below provide general termination exposure guidelines with respect to whether the City should enter into an additional transaction with an existing counter party. The City Council may make exceptions to the guidelines at any time to the extent that the execution of a swap achieves one or many of the goals outlined in these guidelines or provides other benefits to the City.

Such guidelines will also not mandate or otherwise force automatic termination by the City or the counter party. Maximum Net Termination Exposure is not intended to impose retroactively any terms and conditions on existing transactions. Such provisions will only act as guidelines in making a determination as to whether or not a proposed transaction should be executed given certain levels of existing and projected net termination exposure to a specific counter party. Additionally, the guidelines below are not intended to require retroactively additional collateral posting for existing transactions. Collateral posting guidelines are described in the "Collateral" section above. The calculation of net termination exposure per counter party will take into consideration multiple transactions, some of which may offset the overall exposure to the City.

Maximum Net Termination Exposure will be based on the sum of (i) the market value of existing transactions as of the first day of the month prior to the execution of any new transaction plus (ii) the expected worse case termination value of the new transaction. The maximum termination exposure will also be tied to the credit rating of a counter party and whether or not the counter party has posted collateral against this exposure.

Under this approach, the City will set limits on individual counter party exposure based on existing as well as new or proposed transactions. For existing transactions, exposure will be based on the market value as of the last quarterly swap valuation report provided by the Financial Advisor. For a new or proposed transaction, the City will calculate the projected maximum exposure based on the estimated maximum exposure assuming two standard deviations. Standard deviation is a statistic obtained by squaring the average difference from the mean of a distribution of numbers. Two standard deviations capture 95% of the population of a distribution of numbers. For purposes of the calculation, two standard deviations shall be calculated as the annualized standard deviation of weekly swap rates over the preceding 52 weeks. The time period may vary according to market conditions which could range from flat to volatile.

The sum of the existing market value and the projected maximum exposure shall constitute the Maximum Net Termination Exposure. For purposes of this calculation, the City shall include all existing and projected transactions of an individual counter party and all transactions will be analyzed in aggregate such that the maximum exposure will be additive and netted on a per project basis. The rationale behind aggregating and netting on a Project basis is that the exposure will vary for individual members depending on their participation in different projects.

For example, if the City has \$13 million (i.e. the City would owe termination payment) of exposure to a counter party, the Maximum Net Termination Exposure under the definition above, is the projected maximum termination exposure less the outstanding exposure. If projected maximum termination exposure on the proposed transaction, assuming two standard deviations, is \$20 million, net termination exposure would be \$7 million.

The exposure thresholds, which will be reviewed periodically to ensure that they remain appropriate, will also be tied to credit ratings of the counter parties and whether or not collateral has been posted. If collateral has been posted, the City cannot exceed \$30.0 million of collateralized exposure. In addition, there would be a further limit on the amount of uncollateralized exposure, including any threshold amounts under the Credit Support Annex. For AAA-rated counter parties, the City could have up to \$40.0 million of uncollateralized exposure; for counter parties in the AA category, the City could have up to \$10.0 million of uncollateralized exposure and for counter parties below the AA category, the City could have no uncollateralized exposure. If a counter party has more than one rating, the lowest rating will govern for purposes of the calculating the level of exposure. A summary table is provided below.

Credit Ratings	Maximum Collateralized Exposure	Maximum Uncollateralized Exposure	Maximum Total Termination Exposure
AAA	NA	\$40 million	\$40 million
AA Category	\$30 million	\$10 million	\$40 million
Below AA	\$30 million	None	\$30 million

Assuming the same example as above, if the counter party is currently rated “Aa2” and “AA+,” the exposure thresholds would only take effect if Net Termination Exposure increased an additional \$3 million (from the original \$7 million above).

If the exposure limit is exceeded by a counter party, the City shall conduct a review of the exposure limit per counter party. The City, in consultation with its Bond Counsel and Financial Advisor, shall explore remedial strategies to mitigate this exposure.

VIII. ONGOING MANAGEMENT

The City will seek to maximize the benefits and minimize the risks it carries by actively managing its swap program. This will entail frequent monitoring of market conditions, by both the Financial Advisor and swap counter party, for emergent opportunities and risks. Active management may require modifications of existing positions including, for example:

- A. Early termination;
- B. Shortening or lengthening the term;
- C. Sale or purchase of options; or
- D. Use of basis swaps.

On an overall basis, the City's swap program is not expected to be very large relative to all of its investment and debt activities. Swaps will be used in response to particular market conditions and needs of the City for which swaps are the best investment or debt-management option.

IX. ONGOING REPORTING REQUIREMENTS

A written report providing the status of all interest rate swap agreements entered into by the City will be provided to the City Council on an annual basis (or other basis, if so directed by Council) and shall include the following:

- A. A description of all outstanding interest rate swap agreements, including project and bonds series, type of swap, rates paid and received by the City, total notional amount, average life of each swap agreement, remaining term of each swap agreement
- B. Highlights of all material changes to swap agreements or new swap agreements entered into by the City since the last report
- C. Termination exposure of each of the City's interest rate swap agreements
- D. The credit rating of each swap counter party and credit enhancer insuring swap payments, if any
- E. If applicable, information concerning any default by a swap counter party to the City, including but not limited to the financial impact to the City, if any
- F. If applicable, information concerning any default by the City to a swap counter party

- G. A summary of swap agreements that were terminated or that have expired
- H. For a swap transaction entered into to generate debt service savings, the City will calculate on an annual basis the actual debt service requirements versus the projected debt service on the swap transaction at the original time of execution. Such a calculation shall include a determination of the cumulative actual savings (or, if applicable, additional payments made by the City) versus the projected savings at the time the swap was executed.

Attachment A – Acceptable Collateral

Security	Valuation Percentage
Cash	100%
Negotiable debt obligations issued by the U.S. Treasury Department or the Government National Mortgage Association (“Ginnie Mae”), or (y) mortgage backed securities issued by Ginnie Mae (but with respect to either (x) or (y) excluding interest only or principal only stripped securities, securities representing residual interests in mortgage pools, or securities that are not listed on a national securities exchange or regularly quoted in a national quotation service) and in each case having a remaining maturity of: (i) less than one year (ii) one year or greater but less than 10 years (iii) 10 years or greater	100% 98% 95%
Negotiable debt obligations issued by the Federal Home Loan Mortgage Corporation (“Freddie Mac”) or the Federal Home Loan Mortgage Association (“Fannie Mae”) or (y) mortgage backed securities issued by Freddie Mac or Fannie Mae but excluding interest only or principal only stripped securities, securities representing residual interests in mortgage pools, or securities that are not listed on a national securities exchange or regularly quoted in a national quotation service	95%
Any other collateral acceptable to the City in its sole discretion. The valuation percentage shall be determined by the Valuation Agent from time to time and in its reasonable discretion	The valuation percentage shall be determined by the Valuation Agent from time to time and in its reasonable discretion.

For example, if a counter party is required to post \$1 million of collateral and wished to use bonds issued by Ginnie Mae with five years remaining to maturity, it would be required to post \$1,020,409 (\$1 million/0.98) to satisfy the collateral requirement.

City of Roseville

Budget Development Policy

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I. INTRODUCTION

This policy outlines the City of Roseville's (City) guidelines for budget development. Consistently following adopted policies will assist the City in achieving its current and future goals in a fiscally responsible and sustainable manner. This policy establishes guidelines for developing the City's annual operating and capital budget as recommended by the Government Finance Officers Association (GFOA) and the National Advisory Council on State and Local Budgeting (NACSLB). This document shall be reviewed on an annual basis to reflect the highest standards of fiscal management and the City's budgetary goals.

II. POLICY

A. Citywide Focus

Consistent with the General Principles of Governance adopted by the City Council in the Elections Ordinance, the City shall maintain a citywide focus during the budget development process and in the adopted budget. Revenues and expenditures shall be budgeted on a citywide basis and not tracked by Council district.

B. General Revenues

General Fund revenues shall not be earmarked for any particular purpose, unless required by law or Generally Accepted Accounting Principles (GAAP). General revenues shall be deposited in the General Fund and appropriated during the budget process or by a separate Council action.

C. Balanced Budget

The City shall adopt and maintain a balanced annual operating budget and an integrated capital budget throughout the fiscal year. For each fund, annual expenditures shall not exceed annual revenues plus available fund balances. It shall remain a goal of the City to maintain a long-term structurally balanced budget, where ongoing revenues support ongoing expenditures.

The City will achieve a structurally balanced budget through efficiencies (i.e., streamlining), permanent reductions to the expenditure base (e.g., eliminating lower priority vacant positions and reducing service levels), and ongoing revenue enhancements. In addition, the City's budget will not rely on reserves or the use of one-time revenues for ongoing expenditures.

D. Public Involvement

Public involvement shall be encouraged in the annual budget decision-making process through public hearings, public outreach, and the dissemination of accessible information. Public participation efforts allow the City to improve performance by identifying general needs, priorities, and service delivery expectations. Public involvement enables the City to be more responsive to the community's needs, thereby increasing the value that the public receives from the City.

E. Operating Budget

The operating budget document shall contain the expected revenue and expenditure appropriations, staffing levels, and summaries for each department. Summary information for each department featured in the budget shall include the primary services, strategic goals and strategies, accomplishments and initiatives, and key performance and workload measures. Department summaries shall be updated annually to ensure departments' priorities and performance measures support the City Council's Strategic Plan.

F. Capital Improvement Program (CIP) and Budget

The City shall develop a Five-Year CIP, which reflects a comprehensive approach to addressing the City's capital needs and the identification of resources for those needs. Critical inputs include infrastructure condition assessments, service level evaluations, asset management information, and review of available funding sources. The Five-Year CIP shall be the basis for the development of the annual CIP budget.

The annual CIP budget shall be developed in conjunction with the operating budget to ensure the effective utilization of the City's overall resources to operate and maintain facilities. The annual CIP budget shall include projects that span multiple fiscal years and result in capitalized assets. The CIP budget may consist of other projects of a capital nature that may not result in an asset and that span multiple fiscal years and have significant cost estimates.

The annual CIP budget shall reflect total estimated project costs for Council approved projects by including all prior and current year expenditures and appropriations, future year project costs, and any future funding needs through project completion. CIP projects shall only be established with partial funding if there is a reasonable expectation that the remaining funding is identified to complete the project within a reasonable timeframe for the type of project.

CIP appropriations remaining unspent at the end of each fiscal year shall be carried forward to the subsequent fiscal year until the project is completed or abandoned. CIP projects, however, shall be reviewed periodically to identify projects that are not progressing with funds available for reprogramming.

G. Indirect Cost Allocation Plan

The City shall use an indirect cost allocation plan to allocate the costs of those general government activities without significant assets or liabilities to all City funds and departments, except that reimbursements for costs allocated between General Fund departments will not be budgeted. Substantial changes in the allocable indirect costs may be amortized or smoothed over a period not to exceed three fiscal years to allow receiving funds to adjust their rates.

H. Internal Service Funds

The City shall use internal service funds to allocate general government costs for activities with significant assets and/or liabilities to all City funds and departments. Internal service fund costs are budgeted in and allocated to General Fund departments. The City's internal service fund activities include information technology, fleet management, facilities management, and risk management (general liability and workers compensation).

I. General Fund Five-Year Forecast

The City shall maintain a five-year forecast for the General Fund as an essential fiscal planning tool. The forecast shall be based on the current budget and projections of future expenditures, revenues, and other funding sources over a multi-year period. The evaluation of recommended fiscal actions will focus on a longer-term, rather than short-term context. The five-year forecast is based on a set of point-in-time assumptions. The projected expenditure growth shall be realistic, mainly through the term of the current labor contracts. All revenue forecasts will utilize objective external research and internal forecasting methods. City revenues are economically sensitive, and the five-year revenue forecasts are subject to the same uncertainty and downside risk surrounding national economic forecasts. It is important to note that the City's significant tax revenues, property and sales taxes, trail economic trends.

J. Basis of Budgeting

The City's budgets for governmental funds, such as the General Fund, special revenue funds, debt service funds, and capital project funds, shall be prepared based on the modified accrual basis of accounting. In other words, revenues are recognized in the accounting period in which they become available and

measurable, and expenditures are recognized in the accounting period in which the liability is incurred. An exception to this basis is that disbursements of interfund loans are budgeted as expenditures in lender funds and revenue in borrower funds, and repayments of interfund loans are budgeted as expenditures in borrower funds and revenue in lender funds.

The budget for the City's proprietary funds, consisting of enterprise funds and internal service funds, shall be prepared on the full accrual basis of accounting for all operating revenues and most operating expenses. In other words, revenues are recognized when they are earned, and expenses are recognized when the liability is incurred. Expenses related to long-term assets, primarily capital outlay, and long-term liabilities, including repayment of bonded debt as well as pension and other post-employment benefit expenses, are budgeted on the modified accrual basis of accounting. Repayments of interfund loans are budgeted as expenditures in borrower funds and revenue in lender funds.

The City's budget shall exclude unrealized gains or losses resulting from the change in fair value of investments, as well as amortization of premiums and discounts on the City's investments. These calculations are performed solely for financial statement reporting purposes to comply with GAAP.

City of Roseville

General Fund Reserves Policy

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I. INTRODUCTION

The purpose of this policy is to establish targeted levels of General Fund reserves, a basic component of a financially strong city. Adequate reserves help sustain City operations when adverse or unexpected circumstances affect the City, providing resources to minimize service disruption in the event of temporary revenue shortfalls, declared disasters, or unpredicted one-time expenditures. This policy establishes the amounts the City will strive to maintain in the Emergency Reserve, Stabilization Reserve, and Litigation Reserve, and the conditions under which the reserves may be used.

II. BACKGROUND

Financial reserves strengthen the City's financial status and provide valuable resources for managing through economic cycles and addressing unexpected events. Every fund of the City represents a stand-alone financial set of accounts and has its own operating characteristics, financial capabilities, and constraints. The level of reserves needed should be based on the financial and operating characteristics of each fund.

According to the Government Finance Officers Association (GFOA), it is essential that governments maintain adequate levels of fund balance to mitigate current and future risks (e.g., revenue shortfalls and unanticipated expenditures) in order to protect taxpayers and employees from unexpected changes in financial conditions. GFOA recommends, at a minimum, that general-purpose governments, regardless of size, maintain an unrestricted budgetary fund balance in their General Fund of no less than two months of regular general fund operating revenues or regular General Fund operating expenditures (an amount equivalent to 16.67% of the annual budget).

This policy establishes three months of operating costs (25% of annual budgeted General Fund operating costs) as the City's target level of reserves. This targeted level of reserves consists of the City's Emergency Reserve (10% of annual budgeted General Fund operating costs) and the City's Stabilization Reserve (15% of annual budgeted General Fund operating costs). This policy also establishes \$250,000 as the minimum level in the City's Litigation Reserve. The policy also outlines the methods the City will utilize to achieve the target reserve levels, defines the conditions under which these funds can be used and describes how the City's expenditure and/or revenue levels will be adjusted to match any new economic realities that are causing the use of fund balance reserves as a financing bridge.

III. POLICY

A. Minimum and Target Reserve Levels

The City will maintain an Emergency Reserve at a minimum of 10% of budgeted General Fund operating expenditures. Because the City relies on property tax

and sales tax revenue to support over two-thirds of the City's General Fund budget and the negative effects on property and sales tax revenue can be significant during economic downturns, the City will seek to build up and maintain a General Fund Stabilization Reserve equal to 15% of budgeted General Fund operating expenditures as the target reserve level. The Emergency Reserve and Stabilization Reserve shall be reported as commitments of fund balance in the General Fund for external financial reporting. Appropriations from the Emergency Reserve may only be made by a vote of the City Council to meet a critical, unpredictable financial need such as a declared emergency. Appropriations from the Stabilization Reserve may only be made by a vote of the City Council in the event of temporary revenue shortfalls caused by an economic downturn.

B. Methods to Achieve Funding Levels

Funding of the General Fund Reserves will generally come from the adopted budget, year-end excess revenues over expenditures or anticipated one-time revenues. At a minimum, during the budget process, staff shall review the current and five-year projected reserves to ensure that they are appropriate given the economic and financial risk factors the City faces.

C. Criteria for Expenditure of Reserve Funds

The Reserve Funds shall not normally be applied to recurring annual operating expenditures. Appropriation from the Emergency Reserve and Stabilization Reserve Funds requires approval of at least four City Council members. The Litigation Reserve is appropriated annually in the adopted budget.

1. Emergency Reserve

The Emergency Reserve may be used to contend with significant short-term issues such as declared emergencies. It is the intent of the Council to limit use of the Emergency Reserve to addressing unanticipated, nonrecurring needs.

2. Stabilization Reserve

The Stabilization Reserve may be used strategically to allow time for the City to restructure its operation in a deliberate manner as required in an economic downturn while minimizing service disruption. Use of the Stabilization Reserve will only take place in the context of a Council-adopted long-term plan. The Stabilization Reserve is intended to be used to address significant revenue shortfalls that occur during an economic

downturn until the City's operating expenditure and revenue levels are adjusted to eliminate structural deficits.

3. Litigation Reserve

The Litigation Reserve may be used for legal matters that are unforeseen and/or unusual in nature and, as a result, typically require reactive measures such as seeking a budget adjustment and a funding source. Some examples are contract disputes, municipal code enforcement, and other public safety enforcement matters. The purpose of this reserve is to address these situations by allowing for proactive handling and funding of such matters.

D. Timeline for Replenishment of the General Fund Reserves

If the General Fund Reserves are drawn down below the minimum levels, a plan will be developed and implemented to replenish the reserves. Replenishing the reserves will be a priority use of one-time resources. Generally, the City should seek to replenish the Emergency Reserve and the Litigation Reserve within one year and the Stabilization Reserve to the minimum reserve level within three years.

City of Roseville
Capital Improvement Program Rehabilitation Funding Policy

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I. INTRODUCTION

The City has significant investments in facilities, equipment, software, vehicles, and other assets which require ongoing maintenance and eventual replacement. The CIP Rehabilitation funds, i.e. the General CIP Rehabilitation Fund; the Parks, Recreation and Library Capital Fund; and the Information Technology Replacement Fund, are used to fund infrastructure needs for City buildings, information technology capital replacement, and parks, recreation and library facilities.

II. BACKGROUND

The City performed a thorough analysis of all City assets in 2012 and developed 10-Year Rehabilitation/Replacement plans. The 10-year plans reflected an annual General Fund funding requirement of \$5.6 million, however the actual amount budgeted in FY2017-18 was \$1.5 million leaving an annual gap of approximately \$4 million

The City performs an annual review of the 10-year plans to develop CIP Rehabilitation budget recommendations for the City Manager that includes a prioritized list of capital projects that can be recommended for funding or deferral in conjunction with the adoption of the City's CIP Rehabilitation budget.

The expectation is that the annual average demand will continue to trend upward based on projects being deferred and new replacement costs.

Addressing these infrastructure needs has been a stated priority of the City Council and was reaffirmed at the City Council meeting on February 7, 2018.

III. POLICY

On an annual basis during each budget process, and until the annual required funding level is attained, the General Fund contribution to the CIP Rehabilitation funds shall increase by \$500,000.

City of Roseville Pension Funding Policy

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I. PURPOSE

The City's Pension Funding Policy documents the method the City will use to determine its actuarially determined contributions to fund the long-term cost of benefits to the plan participants and annuitants. The policy also:

- Provides guidance in making annual budget decisions;
- Demonstrates prudent financial management practices;
- Reassures bond rating agencies; and
- Shows employees and the public how pensions will be funded.

II. BACKGROUND

The City provides defined benefit retirement benefits through the California Public Employees' Retirement System (CalPERS). CalPERS is a multiple-employer public employee defined benefit pension plan.

All full-time and certain part-time City employees are eligible to participate in CalPERS. CalPERS provides retirement and disability benefits, annual cost of living adjustments and death benefits to plan members and their beneficiaries. CalPERS acts as a common investment and administrative agent for participating public entities within the State of California. Benefit provisions and all other requirements are established by state statute.

The financial objective of a defined benefit pension plan is to fund the long-term cost of benefits provided to the plan participants. In order to assure that the plan is financially sustainable, the plan should accumulate adequate resources in a systematic and disciplined manner over the active service life of benefitting employees. This funding policy outlines the method the City will utilize to determine its actuarially determined contributions to fund the long-term cost of benefits to the plan participants and annuitants.

Pension Funding: A Guide for Elected Officials, issued by eleven national groups including the U.S. Conference of Mayors, the International City/County Management Association, and the Government Finance Officers Association, established the following five general policy objectives for a pension funding policy:

- **Actuarially Determined Contributions.** A pension funding plan should be based upon an actuarially determined contribution (ADC) that incorporates both the cost of benefits in the current year and the amortization of the plan's unfunded actuarial accrued liability.

- **Funding Discipline.** A commitment to make timely, actuarially determined contributions to the retirement system is needed to ensure that sufficient assets are available for all current and future retirees.
- **Intergenerational equity.** Annual contributions should be reasonably related to the expected and actual cost of each year of service so that the cost of employee benefits is paid by the generation of taxpayers who receives services from those employees.
- **Contributions as a stable percentage of payroll.** Contributions should be managed so that employer costs remain consistent as a percentage of payroll over time.
- **Accountability and transparency.** Clear reporting of pension funding should include an assessment of whether, how, and when the plan sponsor will ensure sufficient assets are available for all current and future retirees.

III. POLICY

A. Actuarially Determine Contribution (ADC)

CalPERS actuaries will determine the City's ADC to CalPERS based on annual actuarial valuations. The ADC will include the normal cost for current service and amortization of any under-funded amount. The normal cost will be calculated using the entry age normal cost method using economic and non-economic assumptions approved by the CalPERS Board of Administration.

The City will review the CalPERS annual actuarial valuations to validate the completeness and accuracy of the member census data and the reasonableness of the actuarial assumptions.

B. Additional Discretionary Payment (ADP) Contribution

The City will consider making ADP contributions with one-time General Fund resources, with the objectives of increasing the plan's funded status, by reducing the unfunded actuarially accrued liability, and reducing ongoing pension costs.

C. Transparency and Reporting

Funding of the City's pension plans should be transparent to vested parties including plan participants, annuitants, the City Council and Roseville residents. In order to achieve this transparency, the following information shall be available:

- Copies of the annual actuarial valuations for the City's CalPERS plans shall be made available to the City Council.
- The City's Comprehensive Annual Financial Report shall be published on its website. This report includes information on the City's annual contributions to the pension systems and their funded status.
- The City's annual operating budget shall include the City's contributions to CalPERS.

D. Review of Funding Policy

Funding a defined benefit pension plan requires a long-term horizon. As such, the City will review this policy at least every five years to determine if changes to this policy are needed to ensure adequate resources are being accumulated.

City of Roseville

Other Post-Employment Benefits (OPEB) Funding Policy

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I. INTRODUCTION

The purpose of this Funding Policy is to state the overall funding goals for the City of Roseville OPEB Trust. The objective is to accumulate sufficient assets to fully finance the retiree healthcare benefits that the retired employees receive throughout retirement. In meeting this objective, the City will strive to meet the following funding goals:

- A. The City plans to continue to fund retiree medical benefits from operations until such a time as those expenses exceed the City's Actuarially Determined Contribution (ADC). At that time withdrawals from the OPEB Trust will be necessary.
- B. The City intends and plans to ultimately achieve full funding of its actuarially determined OPEB contributions by making increasing contributions to the OPEB trust, to the extent feasible, in the context of other competing demands for public services and employee compensation.
- C. Nothing in this funding policy shall constitute an obligation upon the City, nor an implied contract. The City Council may revoke or amend this policy in the best interests of the City.
- D. Funding of the OPEB Trust does not change the City's obligation or intent to fully pay annual medical costs for retirees.

II. BACKGROUND

The City of Roseville has provided a retiree health benefit to its employees for many years. As a cost reduction strategy, this benefit was eliminated for all bargaining unit employees classified as Tier III. Although eliminated for new employees, this benefit still remains in effect for the majority of the City's employees and must be addressed during the annual budget process.

In an effort to address the long term costs of this expense, a trust was created to begin funding this benefit. The process currently in place is to fund all actual retiree expenses incurred in the current year on a pay-as-you-go basis and make additional contributions to the trust fund.

III. POLICY

The City will engage an OPEB actuary to determine the City's ADC based on biennial actuarial valuations. The ADC will include the normal cost for current service and amortization of the under-funded liability. The normal cost is the current year cost of the program to provide the benefit for current employees in the future. The normal cost

will be calculated using the entry age normal cost method using appropriate economic and non-economic assumptions approved by the City.

The City will review the actuarial valuations to validate the completeness and accuracy of the employee census data and the reasonableness of the actuarial assumptions. Actuarial valuations involve estimates and assumptions about the probability of occurrence of events far into the future. Actuarially determined amounts are subject to continual revision as actual results are compared to past expectations and new estimates are made about the future.

The OPEB Funding Policy is comprised on two components. The first component is calculated as a percentage of total salary for the City. Currently the City funds 6% of salary in the General Fund. The policy requires an increase of 1 percentage point each year until the full actuarially determined contribution is attained.

The second component is calculated as a percentage of one-time monies that may or may not be available at each year end. The actual dollar amount of available one-time funds will be presented to Council with a recommendation as to how much is being recommended for contribution to the trust fund. This recommendation will be based on the dollars available, other competing priorities and Council input.

The City will continue to appropriate in the annual budget for the pay-as-you-go costs of OPEB for current retirees and contributions to the OPEB Trust. On an annual basis during each budget process, and until the full annual required contribution is accomplished, the percentage of salary costs to be deposited into the trust shall increase by 1 percentage point. In addition, a portion of any one-time monies remaining at the end of each fiscal year may be deposited into the trust, which amount will be determined by council based on available funds and other priorities.

Funding OPEB requires a long-term horizon. The City will review this policy at a minimum biennially, coincident with preparation of the actuarial valuations, to determine if changes to this policy are necessary to ensure adequate resources are being accumulated to fund OPEB benefits.

City of Roseville **Workers’ Compensation and General Liability Funding Policy**

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I. INTRODUCTION

The Workers' Compensation and General Liability Funding Policy documents the City's approach to providing adequate financial resources to fund the City's Workers' Compensation and General Liability Programs and establishing and maintaining adequate reserves in the Workers' Compensation and General Liability Internal Service Funds.

II. BACKGROUND

The City is self-insured for workers' compensation and for general liability. The Workers' Compensation and General Liability and Programs charge City departments and funds for the costs of providing for claims, as well as for the cost of administering the claims.

III. POLICY

In order to methodically and consistently measure the City's projected claims, the City will contract with a professional outside actuary to prepare annual actuarial valuation reports for both categories of claims. Program funding will be based on the annual actuarial valuation reports.

The City's funding policy will provide program funding at the 75% confidence level, including recognition of anticipated investment income. Confidence level is used by actuaries to determine the realistic possibilities that a given funding rate will be sufficient to cover all claims that might be incurred in any one program year. A 75% confidence level indicates that the funding rate should be adequate 75% of the time.

If either program maintains a balance above the minimum funding requirement, the excess reserves will be used to subsidize City contributions over a 1-5 year period depending upon the amount of the excess and the City's economic condition.

If either program has excess claims requiring additional contributions to the fund, the City will increase contributions over a 1-3 year period depending on the amount of the shortfall and the City's economic condition to get to the minimum funding requirement.

City of Roseville
Interfund Loans Policy

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I. PURPOSE

The City's Interfund Loan Policy documents the methods used by the City to demonstrate prudent financial management over interfund loans. The policy:

- Requires City Council approval of interfund loans, except for short-term working capital loans,
- Permits short-term interfund loans for working capital to cover Council-approved reimbursable grants and projects and other temporary timing differences in cash flows, and
- Prohibits interfund loans from being used to solve ongoing structural budget issues or hindering the accomplishment of any function or project for which the lending fund was established.

II. BACKGROUND

Interfund loans are the lending of cash from one City fund to another for a specific purpose and with a requirement for repayment. The practice of interfund loans is a recognized and necessary aspect of municipal finance. Such loans are typically short-term in nature, and constitute the allocation of resources between individual funds for working capital purposes.

III. POLICY

A. Long-term Loans

Interfund loans, other than short-term working capital loans, must be approved by the City Council. Council approval will include the following terms of the loan:

- Purpose of Interfund Loan
- Identification of the source fund
- Availability of unrestricted funds in the source fund
- Review of multi-year plans for use of source fund cash
- Analysis of legal or contractual restrictions
- Repayment of Interfund Loan
- Repayment must have a payment source and funding stream

- Specific repayment schedule
- Interest imposed at a rate equal to at least investment earnings if loan did not occur
- Other Considerations
- Feasibility of repayment
- Internal controls to monitor repayment

B. Short-term Loans

Short-term interfund loans for working capital to provide cash for Council-approved reimbursable grants and projects, are permitted. Short-term working capital loans are also permitted for temporary timing differences in cash flows when expenditures are incurred before revenue is collected. The source funds for working capital interfund loans are the General Fund and the Automotive Replacement Fund.

C. Prohibited Uses

- Interfund loans will not be used to solve ongoing structural budget issues.
- Interfund loans will not hinder the accomplishment of any function or project for which the lending fund was established.

City of Roseville

Request for Proposals (RFP) Policy

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I. INTRODUCTION

The purpose of this policy is to provide a uniform process for the issuance, evaluation, and selection of competitive proposals for services and/or customized goods.

II. DEFINITION

Request for Proposals (“RFP”) is a competitive proposal process whereby the City solicits proposals from potential proposers. The RFP process is used for requirements in which the desired outcome is known, but it is difficult to define the methodology or the exact materials or services required to achieve the desired results.

Objectives of the RFP process are to:

- A. Describe the City’s requirements and desired outcomes within a written specification;
- B. Solicit proposers for their proposed solutions;
- C. Describe key criteria to be used in the evaluation of proposals;
- D. Outline the terms and conditions under which the proposer(s) will operate or supply goods and/or services.

The City should use its best efforts to ensure that any RFP is as complete and thorough as possible, however should the scope of work or services of any RFP increase by twenty-five percent (25%) or more after publishing the RFP, that RFP should be withdrawn and any proposals rejected and a new RFP should be issued that includes the increased scope of work or services.

III. USE OF AN RFP

- A. Contracts for goods or services with an estimated value greater than the amount stated in Roseville Municipal Code (“RMC”) Sections 4.12.090 and 4.12.095 must be awarded by the use of competitive bids or an RFP, unless exempted by the City Council or law. Contracts for goods or services estimated to be equal or less than the amount stated in RMC Sections 4.12.090 and 4.12.095 may be awarded upon conclusion of informal interviews by representatives of the initiating department and other City staff, including the Purchasing Division (“Purchasing”), or by an RFP, as may be appropriate.
- B. Notwithstanding the foregoing, qualifying goods or services may be procured without issuing a RFP. A qualifying good or service is one where there is only a single source for obtaining the particular good and/or service. Examples of sole

source goods or services include, but are not limited to, patented, copyrighted, licensed items, specialized test equipment/facilities, critical schedule requirements, unique services, and standardized goods or services for which there is only a single source. Prior to contracting with a sole source, the initiating department shall complete the sole source authorization form. Furthermore, with respect to professional services with an estimated amount exceeding the amount stated in RMC Sections 4.12.090 and 4.12.095, such services may not be procured through sole source without the prior authorization of the City Manager and City Attorney.

IV. PUBLIC NOTICE

Public notice of the RFPs shall be given in the same manner as provided in RMC Section 4.12.090.

The originating department (“Department”) should also generate a list of potential proposers to notify and direct them to the RFP section of the City’s website to access the RFP.

V. FORM OF PROPOSAL

- A. City staff must use the City’s latest version of the RFP template for the initial framework of the document and the City’s Purchasing Guidelines should also be referred to. The RFP content should define the Department’s needs and describe the scope of the work, allowing the potential proposer to develop the project details.
- B. Late proposals shall not be accepted, however staff may extend the time for submission of all proposals.
- C. Each proposal must be signed by an authorized representative of the proposer and include the legal name of the proposing organization and the signer’s title. By signing the proposal it is presumed that the signer has authority to bind the proposer to the proposal’s terms.
- D. RFPs are scored based on the criteria presented in the RFP. Proposers may propose any method or process to satisfy the scope of work in the RFP that maximizes responsiveness to the criteria stated in the RFP.

VI. EVALUATION FACTORS

Award of a RFP shall be made to the responsible proposer whose proposal is determined, through a formal evaluation panel process, to be the most advantageous to the City after the evaluation panel has taken into consideration the evaluation factors

set forth in the RFP. A master averaged score sheet shall be created based on the evaluation panel's initial evaluation. Proposals shall be scored according to the criteria stated in the RFP.

Proposals submitted will be reviewed by an evaluation panel. Members of the evaluation panel shall be comprised of City staff and at the option of City may include non-City staff upon approval of the City Manager and City Attorney. After the initial evaluation, proposers that have submitted the best and most complete proposals may be invited to one or more interviews. The number of proposers invited to an interview may vary depending upon the number of proposals submitted.

The RFP may indicate the relative importance of evaluation factors. The following are representative evaluation criteria that may be considered by the Department when preparing a RFP:

- A. Reputation and Experience. Does the proposer have a reputation of being reliable, delivering on schedule, and performing tasks to the satisfaction of his/her clients? Does the proposer have sufficient experience in the kind of work required?
- B. Capability and Availability of Staff. Does the proposer have qualified and experienced staff needed to perform the work?
- C. Understanding of the Problem. Does the proposer demonstrate a thorough understanding of the issues and has it developed a relevant and effective approach?
- D. Proximity of the Proposer. Although no preference shall be given to local businesses, proposer's office and/or staff proximity to City of Roseville offices or work location as it relates to the proposer's ability to be responsive to the project requirements may be considered.
- E. Cost. Whenever possible and appropriate, a proposer's fee or hourly rate should be secured as part of the proposal and considered in the evaluation process. Whenever possible, RFPs should specify methods of submitting proposed costs that can be compared directly with competing proposals.

The City reserves the right to make a selection without interviews; therefore, the proposal should be submitted on the most favorable terms that the proposer might propose.

Should the City elect to conduct interviews with any proposers, the following criteria shall be considered and each proposer ranked by the evaluation panel during the interview process:

- Quality of presentation
- Ability to meet the City's business goals
- Communication style

A contract will be negotiated with the proposer considered best meeting the City's need for the project. In the event a mutually satisfactory contract cannot be negotiated with the City's first choice, negotiations may be terminated and commenced with the proposer considered next best in meeting the City's needs for the particular project.

The selected proposer will be required to execute a City prepared contract. The contract may further refine the scope of services and will provide for the terms and conditions of employment.

Evaluation Score Sheets. Upon a request pursuant to section 1.8 below, a proposer is entitled to a master averaged score sheet that reflects the averaged evaluation scores of the proposers during the evaluation panel's initial evaluation and the ranking of proposers from any interview (individual score sheets and/or notes are temporary and are not retained following a determination of the evaluation panel). The master score sheet and ranking shall be prepared by City staff prior to notifying any proposers of the results.

VII. DISCUSSIONS WITH PROPOSERS AND REVISIONS TO PROPOSALS

- A. As provided in the RFP, discussions may be conducted with responsible proposers. These discussions shall be for the purpose of clarification to assure full understanding of, and responsiveness to the solicitation requirements. The proposers shall be accorded fair and equal treatment with respect to any opportunity for discussion and revision of proposals, and such revisions may be permitted prior to the evaluation panel's determination of the award recommendation for the purpose of obtaining best and final proposals. In conducting discussions, there shall be no disclosure of any information derived from proposals submitted by competing proposers.
- B. After the evaluation panel has determined the proposer(s) to be recommended for award, the Department may enter negotiations with the recommended proposer(s) to finalize proposed services and price before the evaluation panel's formal notice of intent to award is made.

VIII. AWARD PROCESS

- A. The award is made to the proposer(s) that is determined to best meet the overall needs of the City. For contracts for goods or services with an estimated value greater than the amount stated in RMC Sections 4.12.090 and 4.12.095, the

award of such contract is expressly contingent upon City Council approval and the availability of funds. City staff may not legally bind the City to a contract with an estimated value greater than the amount stated in RMC Sections 4.12.090 and 4.12.095.

- B. Rejection of RFP. The City reserves the right to reject any or all proposals, to waive defects or irregularities in any proposal or in the RFP process, and to offer to negotiate or contract with any proposer(s) in response to any RFP. RFPs do not constitute any form of offer to contract.
- C. Multiple Award. The City reserves the right to award the contract to multiple proposers when applicable.
- D. A formal notice of the intent to award to the recommended proposer(s) shall be made by the Department.

IX. PUBLIC DISCLOSURE

In accordance with the California Public Records Act, proposals submitted in response to a RFP, master averaged score sheets from the initial evaluation, and/or rankings from any interview shall be made available upon a public records request only after: (1) the proposal evaluation process is complete, (2) a contract has been negotiated, and (3) notice of intent to award has been made and/or the contract is placed on a City Council meeting agenda.

X. PROTESTS

A. Protest Requirements

1. Any proposer who is aggrieved in connection with the solicitation or award of a contract may file a protest with the City Clerk's office. The protest must be received in writing by the City Clerk's office within seven (7) calendar days after such aggrieved proposer 1) knows or should have known of the facts giving rise thereto or 2) the date of the notice of intent to award, whichever is sooner. In no event shall a protest be allowed after an award has been made by City Council. If the seventh calendar day falls on a weekend or City holiday, the protesting party may submit the protest prior to close of business on the first business day following such weekend or holiday. Failure to submit a timely protest shall bar consideration of a protest.
2. RFPs must include a notification to prospective proposers of this protest policy.

3. Departments must notify and consult with Purchasing and the City Attorney's Office immediately upon becoming aware of any potential or actual protest. In the event of a proper protest, the RFP process shall be stayed pursuant to Section X (D) of this Policy.

B. Grounds for Protest

1. The alleged grounds for protest shall be limited to the following: (a) computation errors, (b) violations of local, state, or federal law, or (c) the City failed to follow the procedures specified in this Policy.
2. The protest shall state all grounds claimed for the protest and include supporting documentation. Failure to clearly state the grounds for the protest and provide supporting documentation shall be deemed a waiver of all protest rights.

C. Administrative Review

Upon receipt of the protest in accordance with Section X (A), and after determining the protest was properly filed, the Department Director shall provide a copy of the protest to other proposers who might become aggrieved as a result of the protest and issue a written decision within fourteen (14) calendar days after receipt of the protest. The protest will be evaluated by the Department Director, the City Attorney's Office, and the Purchasing Manager. The protesting proposer shall promptly provide any information requested by City staff as part of such investigation. The decision shall either deny or uphold the protest and include reasons for the decision. The written decision shall be final.

D. Stay of Action during a Protest

In the event a protest is filed under Section X, the City shall not proceed further with the award of the contract until the protest is resolved, unless:

1. The City Manager or designee makes a determination that the award of the contract without delay is necessary to protect a substantial interest of the City, or
2. The City decides to reject all proposals and issue a new RFP.



COUNCIL COMMUNICATION

CC #: 0750

File #: 0206-08-01

Title: 2020/2021 Landscaping and Lighting District Assessments – Initiate Proceedings, Intent to Levy, Approval of Engineer's Reports

Contact: Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us
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Meeting Date: 5/6/2020

Item #: 6.18.

RECOMMENDATION TO COUNCIL

It is recommended that the City Council adopt the following resolutions (attached):

1. Resolution of the City Council of the City of Roseville, California, Initiating Proceedings for the Annual Levy of Assessments for the Historic District Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Declaring Its Intention to Levy Annual Assessments for the Historic District Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Preliminary Approval of the Engineer's Annual Levy Report for the Historic District Landscaping and Lighting District for Fiscal Year 2020/2021.

2. Resolution of the City Council of the City of Roseville, California, Initiating Proceedings for the Annual Levy of Assessments for the Infill Area Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Declaring Its Intention to Levy Annual Assessments for the Infill Area Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Preliminary Approval of the Engineer's Annual Levy Report for the Infill Area Landscaping and Lighting District for Fiscal Year 2020/2021.

3. Resolution of the City Council of the City of Roseville, California, Initiating Proceedings for the Annual Levy of Assessments for the Johnson Ranch Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Declaring Its Intention to Levy Annual Assessments for the Johnson Ranch Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Preliminary Approval of the Engineer's Annual Levy Report for the Johnson Ranch Landscaping and Lighting District for Fiscal Year 2020/2021.

4. Resolution of the City Council of the City of Roseville, California, Initiating Proceedings for the Annual Levy of Assessments for the North Central Roseville Specific Plan Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Declaring Its Intention to Levy Annual Assessments for the North Central Roseville Specific Plan Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Preliminary Approval of the Engineer's Annual Levy Report for the North Central Roseville Specific Plan Landscaping and Lighting District for Fiscal Year 2020/2021.

5. Resolution of the City Council of the City of Roseville, California, Initiating Proceedings for the Annual Levy of Assessments for the Northwest Roseville Specific Plan Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Declaring Its Intention to Levy Annual Assessments for the Northwest Roseville Specific Plan Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Preliminary Approval of the Engineer's Annual Levy Report for the Northwest Roseville Specific Plan Landscaping and Lighting District for Fiscal Year 2020/2021.

6. Resolution of the City Council of the City of Roseville, California, Initiating Proceedings for the Annual Levy of Assessments for the Olympus Pointe Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Declaring Its Intention to Levy Annual Assessments for the Olympus Pointe Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Preliminary Approval of the Engineer's Annual Levy Report for the Olympus Pointe Landscaping and Lighting District for Fiscal Year 2020/2021.

7. Resolution of the City Council of the City of Roseville, California, Initiating Proceedings for the Annual Levy of Assessments for the Riverside Avenue Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Declaring Its Intention to Levy Annual Assessments for Riverside Avenue Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Preliminary Approval of the Engineer's Annual Levy Report for the Riverside Avenue Landscaping and Lighting District for Fiscal Year 2020/2021.

8. Resolution of the City Council of the City of Roseville, California, Initiating Proceedings for the Annual Levy of Assessments for the Vernon Street Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Declaring Its Intention to Levy Annual Assessments for the Vernon Street Landscaping and Lighting District for Fiscal Year 2020/2021.

Resolution of the City Council of the City of Roseville, California, Preliminary Approval of the Engineer's Annual Levy Report for the Vernon Street Landscaping and Lighting District for Fiscal Year 2020/2021.

It is also recommended that May 20th, 2020 at 6 p.m. be set as the date and time to hold the public hearing.

BACKGROUND

The City of Roseville currently has eight active Landscaping and Lighting Districts (LLDs). These districts were formed within the City to levy and collect assessments for maintenance of public improvements pursuant to the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code (the Act), and Article XIID of the California Constitution.

The Historic District Landscaping and Lighting District was formed in 2006 to levy and collect assessments for the maintenance and operation of improvements benefiting parcels within the District. The cost of maintaining the streetscape improvements is spread equally to the subject properties, based on their percentage of the total front footage of all affected parcels. The District is located in the Historic Old Town area in Downtown Roseville.

The Infill Area Landscaping and Lighting District was formed in 1995 to levy and collect assessments for the maintenance of certain public improvements that benefit parcels within the District. The District is located in the Infill Plan area.

The Johnson Ranch Landscaping and Lighting District was formed in 1989 to levy and collect assessments for the maintenance of certain public landscape, open space, floodway and stream courses located within the Southeast Roseville Specific Plan area.

The North Central Roseville Specific Plan Landscaping and Lighting District was formed in 1990 to levy and collect assessments for the maintenance of certain public improvements within the North Central Roseville Specific Plan area. In 2004, the property owners in the district approved, through a mailed ballot, an assessment increase and the addition of an annual escalation factor. This enables the City to keep up with increased costs associated with maintaining the landscaping at proper levels.

The Northwest Roseville Specific Plan Landscaping and Lighting District was formed in 1989 to levy and collect assessments for maintenance of certain public landscape medians and corridors,

vernal pool preserves, bike trails, and park improvements. In 2004, the Dunmore Junction subdivision was annexed into the LLD as Zone A and the Legacy subdivision was annexed into Zone B. In 2006 the property owners voted against an assessment increase as well as the addition of an annual escalation factor. In 2011 the property owners voted against an overlay LLD for the Northwest Specific Plan. There was a plan originally scheduled for May 2020 to give the property owners the opportunity to vote for or against an increase to their annual assessment, and the addition of an escalation factor, in order to improve the streetscape landscaping in their neighborhood. Due to the unprecedented times that the community is facing due to the COVID-19 pandemic, the City decided to put the ballot on hold until further notice.

The Olympus Pointe Landscaping and Lighting District was formed in 1989 to levy and collect assessments for the maintenance of certain public improvements within the Northeast Roseville Specific Plan Area. In 2005, the property owners in the district approved, through a mailed ballot, an assessment increase and an annual escalation factor. This enables the City to keep up with increased costs associated with maintaining the landscaping at proper levels.

The Riverside Avenue Landscaping and Lighting District was formed in 2007 to levy and collect assessments for the maintenance and operation of improvements benefiting parcels within the District. The cost of maintaining the streetscape improvements is spread equally to the subject properties, based on their percentage of the total front footage of all affected parcels.

The Vernon Street Landscaping and Lighting District was formed in 2001 to levy and collect assessments for maintenance of improvements installed by the Vernon Streetscape. The cost of maintaining the streetscape improvements is spread equally to the subject properties on their percentage of the total front footage of all affected parcels.

Assessment Statistics

District	Proposed FY 2020-21 Levy	Maximum Annual Assessment	Levied Parcels	% Change from FY 2019-20	FY 2019-20 Levy
Historic District LLD	\$44,590.91	\$44,591.00	56	3%	\$43,292.00
Infill Area LLD	\$30,458.73	\$44,132.80	222	94% *	\$15,666.67
Johnson Ranch LLD	\$48,535.84	\$53,442.00	1,044	6%	\$45,990.42
North Central LLD	\$706,178.96	\$706,438.00	3,494	8% *	\$651,629.38
Northwest LLD	\$481,336.00	\$481,336.00	4,752	0%	\$481,336.00
Olympus Pointe LLD	\$199,168.27	\$404,024.00	824	6% *	\$187,981.34
Riverside Avenue LLD	\$43,014.75	\$43,014.75	75	2%	\$41,986.10
Vernon Street LLD	\$39,769.38	\$39,769.38	60	2%	\$38,818.33
Totals	\$1,593,052.84	\$1,816,747.93	10,527		\$1,506,700.24

* Infill Area LLD assessment was reduced in FY19-20 in Zones B and C because surplus funds were available to reduce the amount levied. The increase for FY20-21 in Zones B and C is the result of not having surplus funds to reduce the levy, as well as an increase in rehab project expenditures in Zones B and C. The FY20-21 assessment in Zone B increased by \$81.52 annually to 41% of the maximum assessment rate. The FY20-21 assessment in Zone C increased by \$80.82 annually to 100% of the maximum assessment rate.

North Central LLD has an increase in direct costs for FY20-21.

Olympus Pointe LLD also has a slight increase in direct costs in addition to not having surplus funds to use to reduce the levy for FY20-21.

FISCAL IMPACT

All charges are needed to fund landscape services in each LLD. There is no impact to the General Fund.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. Adoption of the resolutions meet the above criteria and are not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Jeannine Thrash, Administrative Analyst

Dennis Kauffman, Assistant City Manager/Chief Financial Officer



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-141

Resolution No. 20-142

Resolution No. 20-143

Historic LLD Engineer's Report

Resolution No. 20-144

Resolution No. 20-145

Resolution No. 20-146

Infill LLD Engineer's Report

Resolution No. 20-147

Resolution No. 20-148

Resolution No. 20-149

Johnson Ranch LLD Engineer's Report

Resolution No. 20-150

Resolution No. 20-151

Resolution No. 20-152

North Central Roseville Specific Plan LLD Engineer's Report

Resolution No. 20-153

Resolution No. 20-154

Resolution No. 20-155

Northwest Roseville Specific Plan LLD Engineer's Report

Resolution No. 20-156

Resolution No. 20-157

Resolution No. 20-158

Olympus Pointe LLD Engineer's Report

Resolution No. 20-159

Resolution No. 20-160

Resolution No. 20-161

Riverside Ave LLD Engineer's Report

Resolution No. 20-162

Resolution No. 20-163

Resolution No. 20-164

Vernon St LLD Engineer's Report

RESOLUTION NO. 20-141

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Historic District Landscaping and Lighting District (hereafter referred to as the “District”) pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”), that provides for levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of street lighting, landscaping, and all appurtenant facilities and operations related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter “Engineer”) for the purpose of assisting with the establishment of the assessments, the annexation of territory, and to prepare and file an Engineer’s Annual Levy Report (hereinafter referred to as the “Engineer’s Report”) with the City Clerk in accordance with the act, and in accordance with the California Constitution, Articles XIII C and XIII D;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 Engineer’s Report: The City Council hereby orders the Engineer to prepare and file with the City Clerk the Engineer’s Report concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22622 (d)* of the Act.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: landscape, lighting and streetscape improvements, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

RESOLUTION NO. 20-141

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-142

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Historic District Landscaping and Lighting District (hereafter referred to as the “District”), and initiated proceedings for Fiscal Year 2020/2021, pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”) that provides for the levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of all improvements and facilities related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services for the purpose of assisting with the Annual Levy of the District, and to prepare and file a report with the City Clerk in accordance with the Act; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, PURSUANT TO CHAPTER 3, SECTION 22624 OF THE ACT, AS FOLLOWS:

Section 1 Intention: The City Council hereby declares that it is its intention to seek the Annual Levy of the District pursuant to the Act, over and including the land within the District boundary, and to levy and collect assessments on all such land to pay the annual costs of the improvements.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: landscape, lighting and streetscape improvements, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

Section 3 Boundaries and Designation: The boundaries of the District are described as the boundaries previously defined in the formation documents of the original District. The District is known and designated as:

“Historic District Landscaping and Lighting District”

Section 4 Proposed Assessment Amounts: The proposed assessments are outlined in the Report. District Assessments are calculated in accordance with the method of apportionment established for the District and do not exceed the assessment rates and annual inflationary adjustment previously authorized by City Council and approved by the property owners in accordance with the provisions of the California State Constitution, Article XIID.

Section 5 Public Hearing(s): The City Council hereby declares its intention to conduct a Public Hearing annually concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22626* of the Act.

Section 6 Notice: The City Clerk shall give notice of the time and place of the Public Hearing by causing the publishing of this Resolution once in a local newspaper not less than ten (10) days before the date of the hearing and by posting a copy of this Resolution on the official bulletin board customarily used by the City Council for the posting of notices.

Section 7 Time and Place of Public Hearing: Notice is hereby given that a Public Hearing on these matters will be held by the City Council on **Wednesday, May 20, 2020 at 6:00 p.m.**, or as soon thereafter as feasible in the regular meeting chambers located at 311 Vernon Street, Roseville, California.

RESOLUTION NO. 20-142

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-143

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the "City Council") does resolve as follows:

WHEREAS, the City Council has, by previous Resolutions, ordered the preparation of an Annual Levy Report (hereafter referred to as the "Engineer's Report") for the district known and designated as the Historic District Landscaping and Lighting District (hereafter referred to as the "District"), pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereinafter referred to as the "Act"); and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter "Engineer"), for the purpose of assisting with the establishment of the assessments and to prepare and file an Engineer's Report with the City Clerk in accordance with the Act, and in accordance with the requirements of the California Constitution, Articles XIIC and XIID; and,

WHEREAS, there has now been presented to this City Council the Engineer's Report as required by *Chapter 1, Article 4, Section 22566* of said Act; and,

WHEREAS, this City Council has carefully examined and reviewed the Engineer's Report as presented, and is preliminarily satisfied with the District, each and all of the budget items and documents as set forth therein, and is satisfied that the assessments, on a preliminary basis, have been spread in accordance with the benefits received from the improvements, operation, maintenance and services to be performed within the District, as set forth in said Engineer's Report; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 That the above recitals are all true and correct.

Section 2 That the Engineer's Report as presented, consists of the following:

- a. A Description of Improvements
- b. The Annual Budget (Costs and Expenses of Maintenance, Services, Operations and District Administration)
- c. The Assessment Roll containing the Fiscal Year 2020/2021 Levy for each Assessor Parcel within the District

Section 3 The Engineer's Report is hereby approved on a preliminary basis, and ordered to be filed in the Office of the City Clerk as a permanent record and to remain open to public inspection.

Section 4 That the City Clerk shall certify to the passage and adoption of this Resolution, and the minutes of this meeting shall so reflect the presentation of the Engineer's Report.

RESOLUTION NO. 20-143

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville



City of Roseville

Historic District Landscaping and Lighting District

2020/21 ENGINEER'S ANNUAL LEVY REPORT

Intent Meeting: May 6, 2020
Public Hearing: May 20, 2020

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Suite 200
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T 951.587.3500 | 800.755.6864
F 951.587.3510

www.willdan.com



ENGINEER'S REPORT AFFIDAVIT

Establishment of Annual Rates and Charges for the:

Historic District

Landscaping and Lighting District

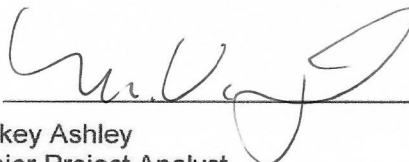
City of Roseville

Placer County, State of California

This Report describes the District and any relevant zones therein, including the improvements, budgets, parcels and assessments to be levied for Fiscal Year 2020/21 as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Placer County Assessor's maps for a detailed description of the lines and dimensions of parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the City Council.

Dated this 15th day of APRIL, 2020

Willdan Financial Services
Assessment Engineer
On Behalf of the City of Roseville

By: 
Mickey Ashley
Senior Project Analyst
District Administration Services

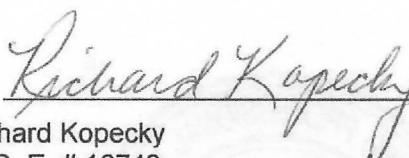
By: 
Richard Kopecky
R. C. E. # 16742



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I. OVERVIEW

A. INTRODUCTION

The City of Roseville (“City”) annually levies and collects special assessments in order to maintain the improvements within the Historic District Landscaping and Lighting District (“District”). The District was formed on April 5, 2006 and is levied annual assessments pursuant to the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the California Streets and Highways Code (“1972 Act”).

The Engineer’s Report (“Report”) describes the District, any new annexations, changes to the District, and the proposed assessments for the period of July 1, 2020 through June 30, 2021. The special benefit assessments are based on historical and estimated costs to maintain the District improvements. These assessments, which provide a direct and special benefit to properties within the District, will provide funding for the operation and maintenance of District improvements.

The word “parcel,” for the purposes of this Report, refers to an individual property assigned its own Assessor’s Parcel Number (“APN”) by the Placer County Assessor’s Office. The Placer County Auditor/Controller uses Assessor’s Parcel Numbers and specific Tax Code Accounts, to identify on the County’s tax roll, properties assessed for special district benefit assessments.

Following approval of the Report, the City Council will by resolution order the improvements to be made and confirm the levy and collection of assessments herein pursuant to the Act. The assessment rates and method of apportionment described in this Report as approved or modified by the City Council defines the assessments to be applied to each parcel within the District for Fiscal Year (“FY”) 2020/21. The assessments as approved will be submitted to the Placer County Auditor/Controller to be included on the property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the Current Fiscal Year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved by the City Council.

B. COMPLIANCE WITH THE CURRENT LEGISLATION

The City Council, pursuant to the provisions of the “Landscaping and Lighting Act of 1972”, being Division 15, Part 2 of the Streets and Highways Code of the State of California, beginning with Section 22500 (the “1972 Act”); Article XIID of the Constitution of the State of California (“Article XIID”); and the Proposition 218 Omnibus Implementation Act, beginning with Government Code Section 53750 (the “Implementation Act”) (the 1972 Act, Article XIID and the Implementation Act are referred to collectively as the “Assessment Law”) initiated proceedings for the formation of the District on February 15, 2006 and to levy and collect annual assessments against lots and parcels within the District for FY 2006/07. On April 5, 2006, pursuant to Assessment Law, the City conducted a Public Hearing and tabulated the returned ballots. The City determined that a majority protest did not exist and approved the District’s maximum assessment rate and annual inflationary adjustment factor.

Pursuant to the Act, an annual Public Hearing is conducted by the City Council to accept property owner and public comments, to review the Engineer’s Annual Levy Report prior to approving the annual assessments to be levied on the County tax rolls. The assessments described in this Report have been prepared in accordance with the Act and Assessment Law.

C. DESCRIPTION OF DISTRICT BOUNDARIES

The territory within the District consists of all lots, parcels and subdivisions of land as shown on the Boundary Map titled “Boundary Map of Historic District Landscaping and Lighting District” as referenced in Appendix A-1 of this Report.

The District is located within the City’s Historic Old Town, west of Highway 80, south of Pleasant Street, north and east of Washington Boulevard, and north and west of the Union Pacific Railroad. The District consists of mostly commercial parcels in a concentrated area of the Downtown primarily fronting the following streets: Church Street northeast of Washington Boulevard, Main Street between Washington Boulevard and Lincoln Street, Pacific Street and Lincoln Street where the improvements end approximately one block south of Pleasant Street.

D. IMPROVEMENTS AUTHORIZED BY THE 1972 ACT

As applicable or may be applicable to a proposed District, the 1972 Act defines improvements to mean one or any combination of the following:

- The installation or planting of landscaping.
- The installation or construction of statuary, fountains, and other ornamental structures and facilities.
- The installation or construction of public lighting facilities.
- The installation or construction of any facilities which are appurtenant to any of the foregoing or which are necessary or convenient for the maintenance

or servicing thereof, including, but not limited to, grading, clearing, removal of debris, the installation or construction of curbs, gutters, walls, sidewalks, or paving, or water, irrigation, drainage, or electrical facilities.

- The maintenance or servicing, or both, of any of the foregoing.
- The acquisition of any existing improvement otherwise authorized pursuant to this section.

Incidental expenses associated with the improvements including, but not limited to:

The cost of preparation of the report, including plans, specifications, estimates, diagram, and assessment;

- The costs of printing, advertising, and the publishing, posting and mailing of notices;
- Compensation payable to the County for collection of assessments;
- Compensation of any engineer or attorney employed to render services;
- Any other expenses incidental to the construction, installation, or maintenance and servicing of the improvements;
- Any expenses incidental to the issuance of bonds or notes pursuant to Section 22662.5.
- Costs associated with any elections held for the approval of a new or increased assessment.

The 1972 Act defines "Maintain" or "maintenance" to mean furnishing of services and materials for the ordinary and usual maintenance, operation, and servicing of any improvement, including:

- Repair, removal, or replacement of all or any part of any improvement.
- Providing for the life, growth, health, and beauty of landscaping, including cultivation, irrigation, trimming, spraying, fertilizing, or treating for disease or injury.
- The removal of trimmings, rubbish, debris, and other solid waste.
- The cleaning, sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Furthermore, the 1972 Act specifies that where the cost of improvements (other than maintenance and operations) is greater than can be conveniently raised from a single annual assessment, an assessment to be levied and collected in annual installments. In that event, the governing body may choose to do any of the following:

- Provide for the accumulation of the moneys in an improvement fund until there are sufficient moneys to pay all or part of the cost of the improvements.
- Provide for a temporary advance to the improvement fund from any available and unencumbered funds of the local agency to pay all or part of

the cost of the improvements and collect those advanced moneys from the annual installments collected through the assessments.

- Borrow an amount necessary to finance the estimated cost of the proposed improvements. The amount borrowed, including amounts for bonds issued to finance the estimated cost of the proposed improvements.

E. DESCRIPTION OF THE IMPROVEMENTS AND MAINTENANCE

The District, through the levy of special assessments, provides funding for ongoing maintenance, operation and servicing of landscaping and lighting improvements located within the public rights-of-ways and dedicated easements located within the District. These improvements may include, but are not limited to, all materials, equipment, utilities, labor, and appurtenant facilities related to the ongoing maintenance of the improvements.

Maintenance services will be provided by City personnel and/or private contractors. The proposed improvements to be maintained and services are generally described as follows:

Landscaping Improvements

The landscaping improvements have been designed to enhance the area within the District and may include, but are not limited to ground cover, shrubs and plants, trees, irrigation and drainage systems, trash receptacles, ornamental lighting, masonry walls or other fencing, hardscape improvements, monuments and landmarks, recreational facilities and associated appurtenances located within the street rights-of-way and public areas within the District. Specifically, the proposed landscape improvement areas for this District are:

- Parkway landscaping and hardscape improvements within the public right of ways of the streets within the district including, but not limited to, Lincoln Street, Main Street, Church Street, Pacific Street and the northeast side of Washington Boulevard estimated at 14,450 square feet of landscaping;
- Various amenities associated with the landscape improvements and public areas within the District, including, but not limited to, trash receptacles, street furniture, bike racks, entry signs, sidewalks, fencing, and retaining walls.

Specifically not included as District improvements are those improvements located on private property, improvements and facilities that are outside the boundaries of the District and/or are funded by other sources available to the City, including those portions of the median and parkway landscaping on Washington Boulevard (southwest side of the street) that are outside the District boundaries.

Public Lighting Improvements

The lighting improvements may include, but are not limited to, the cost of providing,

maintaining and servicing of lighting fixtures, poles, meters, conduits, electrical cable, and associated appurtenant facilities associated with:

- Lighting facilities within the landscaped areas and public areas including safety lights, security lights or ornamental lights installed as part of the District improvements; and
- Public street light improvements located on the streets within the District.

Specifically excluded from the assessment are the street light energy costs. These costs will continue to be paid for by the City from other revenue sources.

Detailed maps of the locations and descriptions of the specific improvements to be maintained by the District are on file in the Office of Public Works and by reference are made part of this Report.

Description of Maintenance and Services

Maintenance means the furnishing of services and materials for the ordinary and usual maintenance, operation and servicing of landscaping and street lighting improvements facilities and appurtenant facilities, including repair, removal or replacement of all or part of any of the landscaping and street lighting improvements, or appurtenant facilities; providing for the life, growth, health and beauty of landscaping improvements including cultivation, irrigation, trimming, mowing, spraying, fertilizing and treating for disease or injury; the removal of trimmings, rubbish, debris and other solid waste; and the cleaning sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Servicing means the furnishing of water and electricity for the irrigation of the landscape improvements or appurtenant facilities and the furnishing of electric current or energy for the operation of the landscaping improvements or appurtenant facilities. The street lighting improvements shall be maintained to provide adequate illumination; however, the City will be paying the actual energy costs to provide illumination.

II. METHOD OF APPORTIONMENT

A. GENERAL

The 1972 Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements which include the construction, maintenance and servicing of public lights, landscaping and appurtenant facilities. The 1972 Act further requires that the cost of these improvements be levied according to benefit rather than assessed value:

“The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements.”

The formula used for calculating assessments in the District therefore reflects the composition of the parcels, and the Improvements and services provided, to fairly apportion the costs based on estimated benefit to each parcel.

B. BENEFIT ANALYSIS

In conjunction with the provisions of the 1972 Act, the California Constitution Article XIID addresses several key criteria for the levy of assessments, notably:

Article XIID Section 2d defines District as follows:

“District means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service”;

Article XIID Section 2i defines Special Benefit as follows:

“Special benefit” means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute “special benefit.”

Article XIID Section 4a defines proportional special benefit assessments as follows:

“An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public

improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.”

This District was formed to establish and provide for the improvements that enhance the presentation of the surrounding properties and developments. These improvements will directly benefit the parcels to be assessed within the District. The assessments and method of apportionment is based on the premise that the assessments will be used to construct and install landscape and lighting improvements within the District as well as provide for the annual maintenance of those improvements, and the assessment revenues generated by District will be used solely for such purposes.

The costs of the proposed improvements have been identified and allocated to properties within the District based on special benefit. The improvements to be provided by this District and for which properties will be assessed have been identified as an essential component and local amenity that provides a direct reflection and extension of the properties within the District which the property owners and residents have expressed a high level of support.

The method of apportionment (method of assessment) set forth in the Report is based on the premise that each assessed property receives special benefits from the landscape and lighting improvements within the District, and the assessment obligation for each parcel reflects that parcel’s proportional special benefits as compared to other properties that receive special benefits.

To identify and determine the proportional special benefit to each parcel within the District, it is necessary to consider the entire scope of the improvements provided as well as the properties that benefit from those improvements. The improvements and the associated costs described in this Report, have been carefully reviewed and have been identified and allocated based on a benefit rationale and calculations that proportionally allocate the net cost of only those improvements determined to be of special benefit to properties within the District. The various public improvements and the associated costs have been identified as either “general benefit” (not assessed) or “special benefit”.

The City initiated and conducted property owner protest ballot proceedings in accordance with Article XIID. Each of the proposed Improvements, the associated costs and assessments were identified and allocated based on special benefit pursuant to the provisions of Article XIID and 1972 Act. Additionally, the Improvements and the annual costs of ensuring the maintenance and operation of the Improvements are of direct and special benefit to the properties.

The City annually levies and collects special benefit assessments in order to maintain and service the District Improvements. The District provides for specific Improvements and services that include the maintenance and operation of

landscaping and lighting Improvements and associated appurtenances located within the District's public rights-of-way and dedicated easements. The annual assessment is based on the historical and estimated costs to maintain the Improvements that provide a benefit to properties within these Districts. The Improvements within the District and the costs of those Improvements are identified and budgeted separately, including all expenditures, deficits, surpluses, revenues, and reserves.

All Improvements within the District and the properties associated with those Improvements were reviewed for benefit prior to the formation of the District. Because the Improvements affront the benefited parcels, it has been determined that there is no measurable general benefit to properties outside the District or to the public at large. In making this determination it should be noted that similar improvements within California are typically maintained by individual property owners, through some type of association or a special district as allowed by State Law since the on-going maintenance of these improvements are a special benefit to the properties associated with those improvements.

The method of apportionment (method of assessment) for the District is based on the premise that each of the assessed parcels within the District receives special benefit from the Improvements maintained and financed by District assessments. The presence of these Improvements and the close proximity of the Improvements to the properties within the District enhance the desirability and security of properties within the District.

The landscape Improvements provided by the District may include landscaped parkways, perimeters, entryways, local medians, slopes, internal amenities and appurtenant facilities. Street lighting Improvements may include all energy costs and necessary maintenance to the facilities related thereto. The annual assessments outlined in this Report are proposed to cover the estimated costs to provide all necessary service, operation, administration, and maintenance required to keep these Improvements in a healthy, vigorous, and satisfactory condition. The special benefits associated with the local landscaping Improvements are specifically:

The special benefits associated with all landscaping Improvements are specifically:

- Enhanced desirability of properties through association with the Improvements.
- Improved aesthetic appeal of properties providing a positive representation of the area and properties.
- Enhanced adaptation of the urban environment within the natural environment from adequate landscaping.
- Environmental enhancement through improved dust and debris control, and fire prevention.

- Increased sense of pride in ownership of property within the District resulting from well-maintained Improvements associated with the properties.
- Enhanced quality of life through well-maintained landscaped areas.
- Reduced criminal activity and property-related crimes (especially vandalism) against properties in the District through well-maintained surroundings and amenities including abatement of graffiti.
- Enhanced environmental quality of the parcels by moderating temperatures, providing oxygenation and attenuating noise.

The special benefits of street lighting are the convenience, safety, and security of property, improvements, and goods. Specifically:

- Enhanced deterrence of crime and the aid to police protection.
- Increased nighttime safety on streets and roads within the Districts.
- Improved ability of pedestrians and motorists to see.
- Improved ingress and egress to property.
- Reduced vandalism and other criminal acts and damage to Improvements or property.
- Improved traffic circulation and reduced nighttime accidents and personal property loss.
- Increased promotion of business during nighttime hours in the case of commercial properties.

All of the preceding special benefits contribute to a specific enhancement and desirability of each of the assessed parcels within the District.

C. DESCRIPTION OF THE METHOD OF APPORTIONMENT

To establish the special benefit to the individual parcels within the District a formula that spreads the costs of the maintenance based on the special benefit must be established. The improvements have been reviewed and the following formula has been established to apportion the maintenance costs based on benefit.

For purposes of the Assessment Methodology, the terms hereinafter set forth have been the following meanings:

Acreage means the land area of an Assessor's Parcel as shown on an Assessor's Parcel map-, or if the land area is not shown on an Assessor's parcel map, the land area shown on the applicable final map, parcel map, condominium plan, record of survey or other recorded document creating and describing such area of land.

Multi-Family Residential means a residence for which building permits have been issued for attached residential units for rental purposes.

Single-Family Residential Unit means a single residential home. This land use includes detached or attached for sale units intended for single-family occupancy.

Commercial means property being used or zoned for either commercial or industrial use.

Three components were used in the methodology to determine each parcels assessment; 1) Front footage of parcels along the proposed street improvements; 2) acreage of benefiting parcels; and 3) Current land use of parcels. Based on these three components the assessments were determined as follows:

First, the parcels Front Footage was determined based on Assessor's Parcel maps or other sources. Only Front footage on streets that will be improved was used. For parcels with Front Footage on more than one side (corner lots), the total Front Footage was divided by two to provide an average Front Footage. It was determined that twenty percent (20%) of the total budget was reasonably attributed to Front Footage; therefore twenty percent (20%) of the budget was spread to Front Footage.

Second, each parcel's Acreage was calculated based on Assessors Parcels map. It was determined that eighty percent (80%) of the budget was reasonably attributed to Acreage; therefore eighty (80%) of the budget was spread on Acreage. In the event that common area parcels are created subsequent to the formation of the District, the acreage of any such common area parcels shall be apportioned to the remaining assessable parcels of the subdivision and/or parcel split(s) related to the creation of the common area parcel(s).

Third, the current land use of the parcel was determined using the County's secured roll. Parcel's currently used as a Single-Family Residence or Multi-Family Residences were determined to receive twenty-five (25%) of the benefit in relation to commercial parcels. Additionally, it was determined that single Family Residential Parcels benefit equally from the improvements, therefore the total assessment calculated based on the formula was averaged between the five Single Family Residential parcels to determine a Single Family Residential rate per Unit.

The base year maximum assessment rates approved to be levied in FY 2006/07 are provided in the table below.

Base Year (FY 2006/07) Maximum Assessment Rates			
Land Use	Front Footage	Acreage Rate	Flat Rate
Commercial	\$1.99 per Front Foot	\$2,582.41 per Acre	N/A
Multi-Family Residential	\$0.50 per Front Foot	\$645.60 per Acre	N/A
Single-Family Residential	N/A	N/A	\$132.00 per Unit

The following formula is used to calculate each parcel's assessment (proportional benefit) for those parcels that are not Single-Family Residential parcels.

Front Footage Rate x Parcel's Adjusted Front Footage = Parcel Front Footage Levy

Acreage Rate x Parcel's Adjusted Acreage = Parcel Acreage Levy

Proposed Levy per Parcel = Parcel Front Footage Levy + Parcel Acreage Levy

The Assessment Range Formula shall be applied to all future assessments within the District beginning in fiscal year 2007/08. Generally, if the proposed annual assessment for the current fiscal year is less than or equal to the calculated Maximum Assessment, then the Assessment is equal to the initial Assessment (approved by property owners within the District) adjusted annually by three percent (3%).

Beginning in the second fiscal year (Fiscal Year 2007/08) and each fiscal year thereafter, the Maximum Assessment would be recalculated and a new Maximum Assessment established within the District.

The Maximum Assessment is adjusted annually and is calculated independent of the District's annual budget and proposed annual assessment. Any proposed annual assessment is not considered an increased assessment, even if the proposed assessment is greater than the assessment applied in the prior fiscal year.

Although the Maximum Assessment will increase each year, the actual assessment may remain unchanged. The Maximum Assessment adjustment is designed to establish a reasonable limit on assessments. The Maximum Assessment calculated each year does not require or facilitate an increase to the annual assessment and neither does it restrict assessments to the adjustment maximum amount. If the budget and assessment for the fiscal year do not require an increase, or the increase is less than the adjusted Maximum Assessment, the required budget and assessment may be applied without additional property owner balloting. If the budget and assessments calculated requires an increase greater

than the adjusted Maximum Assessment, then the assessment is considered an increased assessment and would be subject to balloting.

D. ANNUAL INFLATIONARY ADJUSTMENT

If the proposed assessment rates increase over the prior fiscal year's maximum assessment rates by a percentage no greater than the 3%, then the proposed assessment rates are not considered an increase.

III. DISTRICT BUDGET

A. FY 2020/21 BUDGET

DESCRIPTION	AMOUNTS
<u>DIRECT COSTS</u>	
Contract Maintenance - Landscaping	\$12,550.00
Repair & Maintenance - Landscaping	9,944.00
Repair & Maintenance - Lighting	2,000.00
Repair and Maintenance - Streetscape and Signage	1,000.00
Utilities	11,000.00
Rehab Reserve Project Expenditures	<u>11,880.00</u>
Total Direct Costs	\$48,374.00
<u>ADMINISTRATION COSTS</u>	
City Administration	\$866.00
Contract Administration - Park's Dept	2,200.00
County Auditor Fees	445.91
Consulting & Professional Services	3,570.00
Consultant Incidental Expenses	15.00
Public Hearing Publishing Costs	<u>1,000.00</u>
Total Administrative Costs	\$8,096.91
Total Direct and Administration Costs	\$56,470.91
<u>BUDGET ADJUSTMENTS</u>	
Replenishment/(Use) of Operating Reserve	\$0.00
Contribution for /(Use of) Rehab Reserve	(11,880.00)
Rounding Adjustment	<u>(0.07)</u>
Total Adjustments	(\$11,880.07)
BALANCE TO LEVY	\$44,590.84

Fund balance information is reported in Section C on the following page.

B. FY 2020/21 ASSESSMENT RATES

DESCRIPTION	AMOUNTS
<u>FY 2020/21 APPLIED ASSESSMENT RATES</u>	
Number of Assessable Parcels	56
Total Front Footage - Commercial	2,859.87
Total Front Footage - MFR	140.00
Total Assessable Acreage - Commercial	8.8087
Total Assessable Acreage - MFR	0.4821
Total Single Family Residences	5
Applied Assessment Rate per Front Foot - Commercial	\$3.0101
Applied Assessment Rate per Front Foot - MFR	\$0.7563
Applied Assessment Rate per Acre - Commercial	\$3,906.1268
Applied Assessment Rate per Acre - MFR	\$976.5279
Applied Assessment Rate per SF Residence	\$199.6618
Maximum Assessment Rate per Front Foot - Commercial	\$3.0101
Maximum Assessment Rate per Front Foot - MFR	\$0.7563
Maximum Assessment Rate per Acre - Commercial	\$3,906.1268
Maximum Assessment Rate per Acre - MFR	\$976.5279
Maximum Assessment Rate per SF Residence	\$199.6618
Potential Maximum Assessment	\$44,591

C. FY 2020/21 FUND BALANCE INFORMATION

DESCRIPTION	AMOUNTS
<u>OPERATING RESERVE</u>	
Beginning Operating Reserve Balance 7-1-2020 (est.)	\$39,244.27
add: Replenish from FY 20/21 Levy	
less: Use for FY 20/21 Expenses	
Transfer from/(to) the Rehab Reserve	(15,057.27)
Ending Operating Reserve Balance 6-30-2021 (est.)	\$24,187.00
<u>REHABILITATION RESERVE</u>	
Beginning Rehab Reserve Balance 7-1-2020 (est.)	\$53,633.01
add: Collect from FY 20/21 Levy	
less: Use for FY 20/21 Rehab Projects	(11,880.00)
Transfer from/(to) the Operating Reserve	15,057.27
Ending Rehab Reserve Balance 6-30-2021 (est.)	\$56,810.28

D. DESCRIPTION OF BUDGET ITEMS

Description of the terms used in the preceding Budget, Assessment Rates and Fund Balance tables are listed below:

BUDGET:

DIRECT COSTS

Contract Maintenance - Landscaping - Includes all regularly scheduled contract labor, required to properly maintain and ensure the satisfactory condition of all landscaping, irrigation and drainage systems and appurtenant facilities.

Repair and Maintenance - Landscaping - This item includes landscape improvement repair and maintenance costs that are generally unforeseen and not normally included in the annual maintenance contract costs. This may include repair of damaged amenities due to vandalism, storms, etc. Planned replacements or upgrades that provide a direct benefit to the District during the Current Fiscal Year may also be included. Costs could include the renovation of improvements such as irrigation systems.

Repair and Maintenance - Lighting - This item includes lighting improvement repair and maintenance costs. This may include repair of damaged amenities due to vandalism, storms, etc. Planned replacements or upgrades that provide a direct benefit to the District during the Current Fiscal Year may also be included.

Repair and Maintenance - Streetscape and Signage - This item includes repair and maintenance costs of streetscape and sign improvements. Streetscape improvements include street furniture, sidewalks, curbs, gutters, parking stripes, brick pavers, benches, bike racks, and trash receptacles. This may include repair of damaged amenities due to vandalism, storms, etc. May include planned replacements or upgrades not listed below that provide a direct benefit to the District.

Utilities - The furnishing of water and electricity required for the operation and maintenance of the improvements.

Rehab Reserve Project Expenditures – Expected costs for installation, replacement or planned upgrades of District improvements for the current year that were previously funded or accumulated in the Rehabilitation Reserve. The Rehabilitation Reserve is used to accumulate funds for costs associated with the future rehabilitation or replacement of District improvements that cannot be conveniently raised from a single year's assessment. If zero, this line item may not be shown in the budget.

ADMINISTRATION COSTS

City Administration – Estimated costs incurred by the City Finance Department and other Departments in preparing the annual budget for the Engineer's Report, together with other financial information required to determine the annual assessment. These costs would also include the preparation, posting and publishing of public notices required for City Council action relating to the District, as well as costs to perform legal review of documents.

Contract Administration – Park's Dept – Estimated Costs of Park and Recreation Department staff to coordinate and oversee the maintenance contracts and overall repair and maintenance of the District. This amount also includes the cost of the Department's estimates and analysis of certain budget items, estimated costs and useful lives of certain District Improvements.

County Auditor Fees - A fee of 1% of the total levy amount that is charged to the District by the County for placing assessments on property tax bills.

Consulting and Professional Services – Includes the costs and expenses of contracting with various professionals to provide legal, engineering and district administration services directly related to the District, including the calculation of the annual assessment amounts and the preparation of the Engineer's' Report.

Public Hearing Publishing Costs –Includes the out of pocket costs to publish public notices required for City Council action relating to the District.

Total Direct and Administration Costs – The total expected costs of the District.

BUDGET ADJUSTMENTS

Replenishment/(Use) of Operating Reserve – A "Replenishment" increases the levy in order to replenish the Operating Reserve. On the other hand, a "Use" of the Operating Reserve decreases the levy by drawing funds from the Operating Reserve for current year expenditures. If zero, this line item may not be shown in the budget. Further information regarding the function of the Operating Reserve is provided under "FUND BALANCE INFORMATION" in the following pages of this Section.

Contribution for /(Use of) Rehab Reserve — A "Contribution" increases the levy in order to generate funding for the Rehabilitation Reserve. This reserve allows for the accumulation of funds for the possible rehabilitation projects or replacements in future years. On the other hand, a "Use of" of the Rehabilitation Reserve provides current year funding of rehabilitation projects or replacements from available funds within the Rehabilitation Reserve. If zero, this line item may not be shown in the budget. Further information regarding the function of the

Rehabilitation Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Rounding Adjustment – The necessary rounding adjustment(s) due to limitations of the County property tax system that requires even penny levy amounts to be placed on the secured tax roll.

BALANCE TO LEVY - This is the total amount to be levied and collected through assessments for the current fiscal year for each zone. The Balance to Levy represents the sum of the total District costs together with any applicable adjustments to the budget as described above.

ASSESSMENT RATES:

APPLIED ASSESSMENT RATE

Number of Assessable Parcels - The total number of parcels that are expected to be assessed. Non-assessable lots or parcels include government-owned land, public utility-owned property, land principally encumbered by public rights-of-way or easements, common areas, and/or parcels within the boundaries of the District currently do not benefit from the improvements and are therefore not assessed.

Total Assessable Front Footage – the total number of Front Feet within the District, adjusted for corner parcels, Multi-Family Residential and Single-Family Residential Parcels will be assessed as calculated in accordance with the methodology set out in Section C of this Report.

Total Assessable Acreage – the total Acreage within the District, adjusted for Multi-Family Residential and Single-Family Residential Parcels that will be assessed as calculated in accordance with the methodology set out in Section C of this Report.

Total Single-Family Residential Parcels – the total number of parcels currently being used as Single-Family Residences.

Applied Assessment Rates – The applied assessment rates for each of the District’s land use types.

Maximum Assessment Rates per Front Foot – The maximum dollar amount that can be assessed per Adjusted Front Foot for the District’s land use type for the current fiscal year.

Maximum Assessment Rates per Acre – The maximum dollar amount that can be assessed per Adjusted Acreage Foot for the District’s land use type for the current fiscal year.

Maximum Assessment Rate per SF Residential Unit – The maximum dollar amount that can be assessed per Single Family Unit within the District for the current fiscal year.

Potential Maximum Assessment – The total amount that is expected to be assessed against all parcels within the District for the Current Fiscal Year.

FUND BALANCE INFORMATION:

OPERATING RESERVE

Beginning Operating Reserve Balance 7-1-2020 (est.) - The anticipated beginning balance of cash and receivables net of any unpaid prior year obligations for each Zone. These beginning balances shall be used to fund each Zone's expenditures from July 1, 2020 to December 31, 2020, as the Operating Reserve is required to compensate for the approximate six-month delay between the start of the District's fiscal year and the receipt of the collections from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

Replenish from FY 20/21 Levy – This amount is added to the levy in order to replenish the Operating Reserve. Due to the six-month delay from the District's receipt of assessment collections, the Operating Reserve balance shall be sufficiently funded to provide for expenditures from the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Expenses – The amount of the Operating Reserve to be used to fund FY 20/21 expenses. Portions of the Operating Reserve may be slated for current year expenditures in order to reduce the Ending Operating Reserve Balance to an amount no greater than the expected District costs for the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Rehab Reserve — The amount of Operating Reserve monies to be transferred to or from the Rehabilitation Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Operating Reserve Balance 6-30-2021 (est.) - This amount represents the anticipated Operating Reserve balance/(deficit) for each Zone as of June 30, 2021. The size of each Zone's Operating Reserve is limited by Streets and

Highways Code 22569 which states that an Operating Reserve shall not exceed the estimated costs of maintenance, service and incidental expenses from the first day of the fiscal year (July 1) to the date that the Agency expects to receive the first apportionment of collections from the County, which is estimated to be December 31. Therefore, each Zone may retain an Operating Reserve amounting to the District's first six-months of expenses in order to meet ongoing obligations until the first collections are received from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

REHABILITATION RESERVE

Beginning Rehab Reserve Balance 7-1-2020 (est.) — The projected balance of funds in the Rehabilitation Reserve as of July 1, 2020. Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

Collect from FY 20/21 Levy — This amount is added to the levy to accumulate funding of future year rehabilitation projects, replacements, restorations or upgrades of District improvements. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Rehab Projects — The amount of Rehabilitation Reserve monies expected to be transferred out of the Rehabilitation Reserve to fund the costs of installation, replacement or planned upgrades of District improvements for the current year. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Operating Reserve — The amount of Rehabilitation Reserve monies to be transferred to or from the Operating Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Rehab Reserve Balance 6-30-2021 (est.) - The projected balance of funds in the Rehabilitation Reserve as of June 30, 2021. These funds shall be used to provide for future year rehabilitation projects, replacements, restorations or upgrades of District improvements which cannot be conveniently raised from a single year's assessment.

Should the District have no Rehabilitation Reserve balances or related activity, no Rehabilitation Reserve information shall be presented in the Report.

E. REHABILITATION RESERVE – CAPITAL IMPROVEMENT PLAN

Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

A five-year Capital Improvement Plan showing projected expenditures related to the rehabilitation, restoration and/or replacement of District improvements, and other allowable costs, is shown below.

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Repair, replace and/or refurbish street furniture			\$3,500			\$3,500
Replace, repair, renovate and/or refurbish plants, landscape & related materials	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$40,000
Replace, repair lighting fixtures		\$5,000		\$0		\$5,000
Tree grid pruning	\$1,880	\$2,000	\$2,100	\$2,200	\$2,200	\$8,500
Total Projected Expenditures	\$11,880	\$17,000	\$15,600	\$12,200	\$12,200	\$57,000

From time to time, funds held in a Rehabilitation Reserve may be needed to respond to changing needs due to the condition of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the Districts' Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and/or operation of the improvements.

APPENDIX A – DISTRICT BOUNDARY MAP

The boundary map for the District has previously been submitted to the Clerk of the City in the format required under the 1972 Act and is, by reference, hereby made part of this Report. These District Boundary Maps are available for inspection at the office of the City Clerk during normal business hours.

For general reference purposes, a summary of the District's Boundaries is presented herein.

SHEET 1 OF 2

BOUNDARY MAP OF HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT CITY OF ROSEVILLE COUNTY OF PLACER STATE OF CALIFORNIA

LOT DESIGNATION

LOT NO.	ASSESSOR'S PARCEL NUMBER
1	011-143-008
2	011-143-005
3	011-146-006
4	011-146-011
5	011-146-012
6	011-146-013
7	011-146-014
8	011-146-016
9	011-146-017
10	011-146-019
11	011-146-019
12	011-146-024
13	011-146-025
14	011-147-002
15	011-147-003
16	011-147-006
17	011-147-007
18	011-147-008
19	011-147-009
20	011-147-010
21	011-147-011
22	011-147-012
23	011-147-014
24	012-121-001
25	012-121-002
26	012-121-003
27	012-121-007
28	012-121-009

LOT DESIGNATION

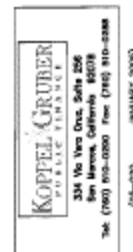
LOT NO.	ASSESSOR'S PARCEL NUMBER
29	012-121-012
30	012-121-013
31	012-121-014
32	012-122-001
33	012-122-003
34	012-200-001
35	012-200-002
36	012-200-004
37	012-200-005
38	012-200-006
39	012-200-007
40	012-200-008
41	012-200-009
42	012-200-010
43	012-200-011
44	012-200-012
45	012-200-013
46	012-200-014
47	012-200-015
48	012-200-016
49	012-200-017
50	012-200-018
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55	012-200-027
56	012-200-028

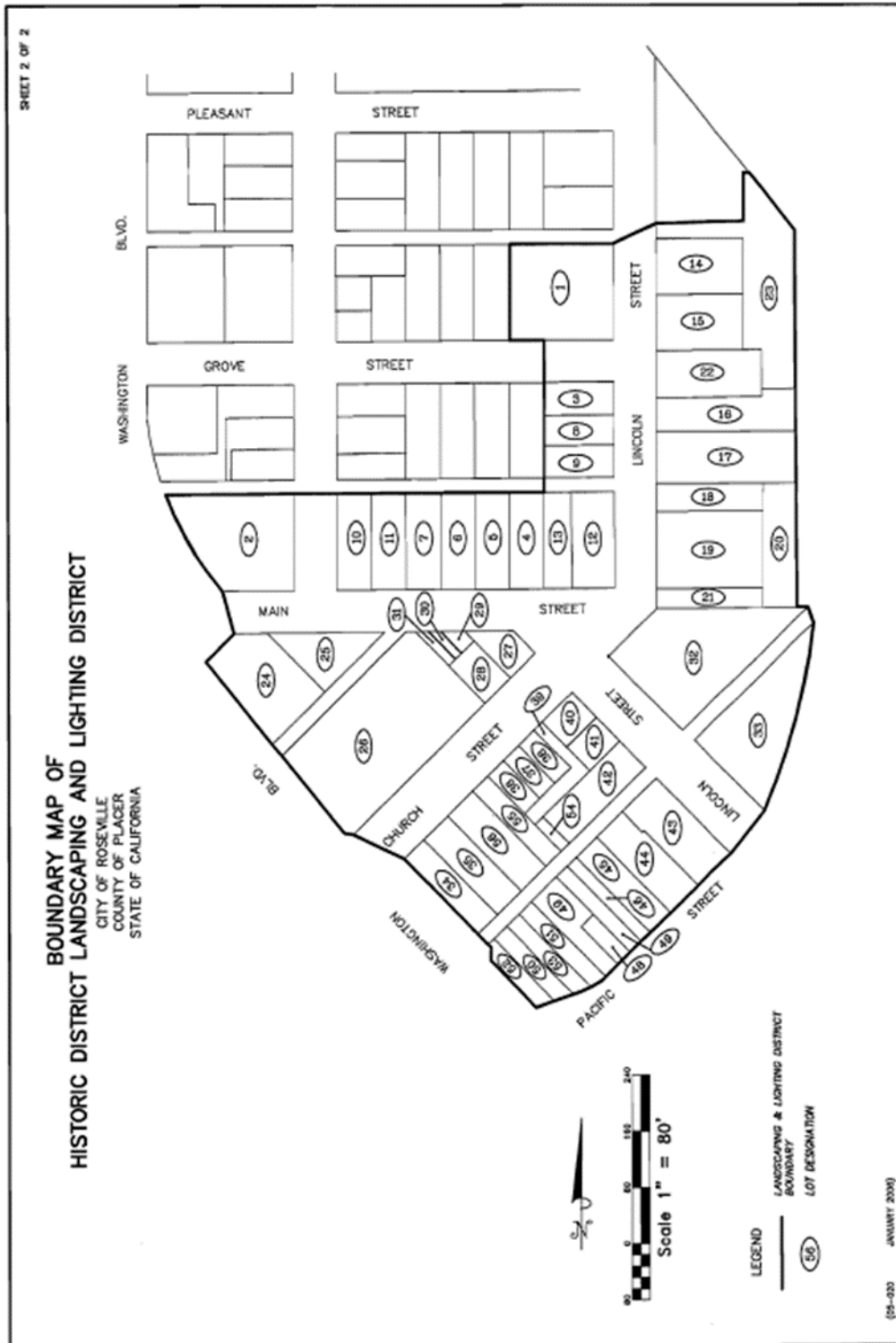


VICINITY MAP
NOT TO SCALE

FILED IN THE OFFICE OF THE CITY CLERK THIS _____ DAY OF _____, 2006.
I HEREBY CERTIFY THAT THIS MAP SHOWING THE BOUNDARIES OF HISTORIC LANDSCAPING AND LIGHTING DISTRICT, CITY OF ROSEVILLE, COUNTY OF PLACER, STATE OF CALIFORNIA, WAS APPROVED BY THE CITY COUNCIL OF THE CITY OF ROSEVILLE AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 2006, BY ITS RESOLUTION NO. _____.

CITY CLERK
CITY OF ROSEVILLE





APPENDIX B — 2020/21 ASSESSMENT ROLL

Parcel identification, for each lot or parcel within the District, shall be the parcel as shown on the Placer County Assessor's map for the year in which this Report is prepared.

A listing of parcels to be assessed within this District, along with the proposed assessment amounts, shall be submitted to the City Clerk, under a separate cover, and by reference is made part of this Report.

Non-assessable lots or parcels may include areas of public streets and other roadways (typically not assigned an APN by the County); dedicated public easements, open space areas and rights-of-ways including public greenbelts and parkways; utility rights-of-ways; common areas; landlocked parcels, small parcels vacated by the County, bifurcated lots, and any other property that cannot be developed, excepting common area parcels. These types of parcels are considered to receive little or no benefit from the improvements and are therefore exempted from assessment.

At the conclusion of the public hearing for the District and the proposed assessments, approval of the Report (as submitted or as modified) confirms the method of apportionment and the assessment rate to be levied against each eligible parcel and thereby constitutes the approved levy and collection of assessments for FY 2020/21. The listing of parcels and the amount of assessment to be levied shall be submitted to the County Auditor/Controller and included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the Current Fiscal Year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved in this Report. Therefore, if a single parcel has changed to multiple parcels, the assessment amount applied to each of the new parcels shall be recalculated and applied according to the approved method of apportionment and assessment rate rather than a proportionate share of the original assessment.

City of Roseville
Historic District Landscape and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	LAND USE	CHARGE	MAXIMUM ASMT	FRONT FEET	ACRES	SF UNITS	LEGAL DESCRIPTION
011-143-008-000	MFR	576.66	576.67	140.0	0.4821	0.0	LOTS 1 2 3 BLK 5 MCRAE ADDN
011-145-005-000	COM	2,240.04	2,240.06	120.0	0.481	0.0	LOTS 1 2 FR 3 4 BLK 3 MCRAE
011-146-008-000	SFR	199.66	199.66	0.0	0.0	1.0	FR LOTS 8 9 BLK 2 MCRAE ADDN
011-146-011-000	COM	775.48	775.49	50.0	0.16	0.0	LOT 12 BLK 2 MCRAE ADDN
011-146-012-000	COM	775.48	775.49	50.0	0.16	0.0	L 13 BLK 2 MCRAE ADDN
011-146-013-000	COM	775.48	775.49	50.0	0.16	0.0	LOT 14 BLK 2 MCRAE ADDN
011-146-014-000	COM	775.48	775.49	50.0	0.16	0.0	LOT 15 BLK 2 MCRAE ADDN
011-146-016-000	SFR	199.66	199.66	0.0	0.0	1.0	FR LOTS 8 9 BLK 2 MCRAE ADDN
011-146-017-000	SFR	199.66	199.66	0.0	0.0	1.0	POR LOTS 8 & 9 BLK 2 MCRAE ADDN
011-146-018-000	COM	778.20	778.22	50.0	0.1607	0.0	LOT 1 BLK 2 MCRAE ADDN
011-146-019-000	COM	778.20	778.22	50.0	0.1607	0.0	L 16 BLK 2 MCRAE ADDN
011-146-024-000	COM	1,060.90	1,060.90	100.31	0.1943	0.0	L 10 & P L 11 BLK 2 MCRAE ADD
011-146-025-000	COM	627.10	627.12	39.64	0.13	0.0	POR L 11 BLK 2 MCRAE ADDITION
011-147-002-000	COM	1,137.64	1,137.65	80.0	0.2296	0.0	FR LOTS 9 10 BLK 1 MCRAE ADDN
011-147-003-000	SFR	199.66	199.66	0.0	0.0	1.0	FR LOTS 8 9 BLK 1 MCRAE ADDN
011-147-006-000	COM	1,091.88	1,091.88	50.0	0.241	0.0	FR LOT 7 BLK 1 MCRAE ADDN
011-147-007-000	COM	1,571.02	1,571.03	75.0	0.3444	0.0	LOTS 5 6 BLK 1 MCRAE ADDN
011-147-008-000	COM	658.26	658.28	40.0	0.1377	0.0	LOT 4 BLK 1 MCRAE ADDN
011-147-009-000	COM	1,725.58	1,725.60	110.0	0.357	0.0	LOTS 2 3 FR 1 BLK 1 MCRAE ADDN
011-147-010-000	COM	807.00	807.01	0.0	0.2066	0.0	LOT IN RSVL
011-147-011-000	COM	493.80	493.81	30.0	0.1033	0.0	FR LOT 1 BLK 1 MCRAE ADDN
011-147-012-000	SFR	199.66	199.66	0.0	0.0	1.0	FR L 7 & 8 BL 1 MCRAE
011-147-014-000	COM	2,027.92	2,027.92	25.0	0.4999	0.0	FR L 8 THRU 11 BLK 1 MCRAE
012-121-001-000	COM	1,759.70	1,759.70	160.0	0.3272	0.0	FR LOTS 11 14 15 16 BLK 38 R
012-121-002-000	COM	1,035.84	1,035.85	140.0	0.1573	0.0	FR L 12 13 BLK 38 RSVL
012-121-003-000	COM	4,174.82	4,174.84	201.0	0.9139	0.0	LOTS BLK 38 RSVL
012-121-007-000	COM	554.80	554.81	81.15	0.0795	0.0	LOT 8 BLK 38 RSVLE
012-121-009-000	COM	461.42	461.43	50.0	0.0796	0.0	POR L 7 BLOCK 38 ROSEVILLE
012-121-012-000	COM	158.72	158.73	26.0	0.0206	0.0	UNIT 1 113 MAIN STREET CONDO
012-121-011-000	EXE	-	-	0.0	0.0	0.0	L 1 113 MAIN ST O-70
012-121-013-000	COM	125.98	125.99	22.0	0.0153	0.0	UNIT 2 113 MAIN STREET CONDO
012-121-014-000	COM	116.60	116.61	22.0	0.0129	0.0	UNIT 3 113 MAIN STREET CONDO
012-122-001-000	COM	2,806.50	2,806.52	150.0	0.6029	0.0	L 12 THRU 16 RSVLLE
012-122-003-000	COM	2,275.48	2,275.48	208.59	0.4218	0.0	L 5 BLK 21 ROSEVILLE
012-200-002-000	COM	782.02	782.02	47.5	0.1636	0.0	FR LOT 14 BLK 22 RSVLE
012-200-004-000	COM	301.90	301.90	31.0	0.0534	0.0	LOT 7 BANK CORNER ADDN
012-200-005-000	COM	301.90	301.90	31.0	0.0534	0.0	LOT 6 BANK CORNER ADDN
012-200-006-000	COM	301.90	301.90	31.0	0.0534	0.0	OWL CLUB FRNSHNGS/FXTRS LOT 5

City of Roseville
Historic District Landscape and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	LAND USE	CHARGE	MAXIMUM ASMT	FRONT FEET	ACRES	SF UNITS	LEGAL DESCRIPTION
012-200-008-000	COM	431.16	431.17	55.0	0.068	0.0	L 3 4 BANK CORNER ADDN
012-200-009-000	COM	394.20	394.20	47.0	0.0647	0.0	LOTS 1 2 BANK CORNER ADDN
012-200-010-000	COM	882.54	882.56	53.0	0.1851	0.0	FR LOTS 9 10 11 12 BLK 22 RSVL
012-200-011-000	COM	1,197.76	1,197.78	107.5	0.2238	0.0	LOT 8 FR 7 BLK 22 RSVLE
012-200-012-000	COM	905.36	905.38	55.0	0.1894	0.0	FR LOTS 6 7 BLK 22 RSVLE
012-200-013-000	COM	658.26	658.28	40.0	0.1377	0.0	FR LOTS 5 6 BLK 22 RSVLE
012-200-014-000	COM	296.36	296.36	18.0	0.062	0.0	FR LOT 5 BLK 22 RSVLE
012-200-015-000	COM	362.30	362.31	22.0	0.0758	0.0	FR LOT 5 BLK 22 RSVLE
012-200-027-000	COM	362.82	362.84	31.0	0.069	0.0	FR L 12 BLK 22 L 8 BANK C
012-200-028-000	COM	823.12	823.14	50.0	0.1722	0.0	L 13 BLK 22 ROSEVILLE
012-200-026-000	COM	90.22	90.23	0.0	0.0231	0.0	FR L 12 BLK 22 RSVLE
012-200-022-000	COM	377.16	377.18	27.59	0.0753	0.0	L 2 BLK 22
012-200-017-000	COM	579.52	579.53	25.0	0.1291	0.0	L 4 BLK 22
012-200-001-000	COM	641.98	641.99	39.0	0.1343	0.0	L 14 15 BLK 22
012-200-023-000	COM	405.70	405.71	25.0	0.0846	0.0	L 3 BLK 22
012-200-025-000	COM	411.56	411.57	25.0	0.0861	0.0	L 3 BLK 22
012-200-016-000	COM	243.20	243.22	25.0	0.043	0.0	L 4 BLK 22
012-200-007-000	COM	360.64	360.65	16.0	0.08	0.0	POR BANK CORNER SUBD
012-200-024-000	COM	334.98	334.99	27.59	0.0645	0.0	L 2 BLK 22

Summary Fields	Value
ACTIVE PARCELS	57
LEVIED PARCELS	56
CHARGE	44,590.84
MAXIMUM ASMT	44,591.35
FRONT FEET	2,999.87
ACRES	9.29
SF UNITS	5

RESOLUTION NO 20-144

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Infill Area Landscaping and Lighting District (hereafter referred to as the “District”) pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”), that provides for levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services relating to landscaping, all appurtenant facilities and operations related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter “Engineer”) for the purpose of assisting with the establishment of the assessments, the annexation of territory, and to prepare and file an Engineer’s Annual Levy Report (hereinafter referred to as the “Engineer’s Report”) with the City Clerk in accordance with the act, and in accordance with the California Constitution, Articles XIII C and XIII D;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 Engineer’s Report: The City Council hereby orders the Engineer to prepare and file with the City Clerk the Engineer’s Report concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22622 (d)* of the Act.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: maintenance, servicing, administration and operation of the landscape corridors adjacent to property within the Pheasant Run, Cirby Oaks II and Reuter Ranch subdivisions, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report also describes all new improvements or substantial changes in existing improvements.

RESOLUTION NO. 20-144

PASSED, APPROVED, AND ADOPTED THIS _____ day of _____, 2020

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I, _____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No. _____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the _____ day of _____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-145

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Infill Area Landscaping and Lighting District (hereafter referred to as the “District”), and initiated proceedings for Fiscal Year 2020/2021, pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”) that provides for the levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of all improvements and facilities related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services for the purpose of assisting with the Annual Levy of the District, and to prepare and file a report with the City Clerk in accordance with the Act; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, PURSUANT TO CHAPTER 3, SECTION 22624 OF THE ACT, AS FOLLOWS:

Section 1 Intention: The City Council hereby declares that it is its intention to seek the Annual Levy of the District pursuant to the Act, over and including the land within the District boundary, and to levy and collect assessments on all such land to pay the annual costs of the improvements.

Section 2 Proposed improvements and any substantial changes in existing improvements: : The improvements within the District include: maintenance, servicing, administration and operation of the landscape corridors adjacent to property within the Pheasant Run, Cirby Oaks II and Reuter Ranch subdivisions, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report also describes all new improvements or substantial changes in existing improvements.

Section 3 Boundaries and Designation: The boundaries of the District are described as the boundaries previously defined in the formation documents of the original District. The District includes the parcels within the areas known as the Pheasant Run, Cirby Oaks II and Reuter Ranch subdivisions. The District is known and designated as:

“Infill Area Landscaping and Lighting District”

Section 4 Proposed Assessment Amounts: The proposed assessments are outlined in the Engineer’s Annual Levy Report. District Assessments are calculated in accordance with the method of apportionment established for the District and do not exceed the assessment rates.

Section 5 Public Hearing(s): The City Council hereby declares its intention to conduct a Public Hearing annually concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22626* of the Act.

Section 6 Notice: The City Clerk shall give notice of the time and place of the Public Hearing by causing the publishing of this Resolution once in a local newspaper not less than ten (10) days before the date of the hearing and by posting a copy of this Resolution on the official bulletin board customarily used by the City Council for the posting of notices.

Section 7 Time and Place of Public Hearing: Notice is hereby given that a Public Hearing on these matters will be held by the City Council on **Wednesday, May 20, 2020 at 6:00 p.m.**, or as soon thereafter as feasible in the regular meeting chambers located at 311 Vernon Street, Roseville, California.

RESOLUTION NO. 20-145

PASSED, APPROVED, AND ADOPTED THIS _____ DAY OF _____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I, _____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No. _____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the _____ day of _____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-146

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the "City Council") does resolve as follows:

WHEREAS, the City Council has, by previous Resolutions, ordered the preparation of an Annual Levy Report (hereafter referred to as the "Engineer's Report") for the district known and designated as the Infill Area Landscaping and Lighting District (hereafter referred to as the "District"), pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereinafter referred to as the "Act"); and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter "Engineer"), for the purpose of assisting with the establishment of the assessments and to prepare and file an Engineer's Report with the City Clerk in accordance with the Act, and in accordance with the requirements of the California Constitution, Articles XIIC and XIID; and

WHEREAS, there has now been presented to this City Council the Report as required by *Chapter 1, Article 4, Section 22566* of said Act; and,

WHEREAS, this City Council has carefully examined and reviewed the Engineer's Report as presented, and is preliminarily satisfied with the District, each and all of the budget items and documents as set forth therein, and is satisfied that the assessments, on a preliminary basis, have been spread in accordance with the benefits received from the improvements, operation, maintenance and services to be performed within each Zone, as set forth in said Report; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 That the above recitals are all true and correct.

Section 2 That the Engineer's Report as presented, consists of the following:

- a. A Description of Improvements
- b. The Annual Budget (Costs and Expenses of Maintenance, Services, Operations and District Administration)
- c. The Assessment Roll containing the Fiscal Year 2020/2021 Levy for each Assessor Parcel within the District

Section 3 The Engineer's Report is hereby approved on a preliminary basis, and ordered to be filed in the Office of the City Clerk as a permanent record and to remain open to public inspection.

Section 4 That the City Clerk shall certify to the passage and adoption of this Resolution, and the minutes of this meeting shall so reflect the presentation of the Engineer's Report.

RESOLUTION NO. 20-146

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville



City of Roseville

Infill Area

Landscaping and Lighting District

2020/21 ENGINEER'S ANNUAL LEVY REPORT

Intent Meeting: May 6, 2020
Public Hearing: May 20, 2020

27368 Via Industria
Suite 200
Temecula, CA 92590
T 951.587.3500 | 800.755.6864
F 951.587.3510

www.willdan.com



ENGINEER'S REPORT AFFIDAVIT

Establishment of Annual Rates and Charges for the:

Infill Area

Landscaping and Lighting District

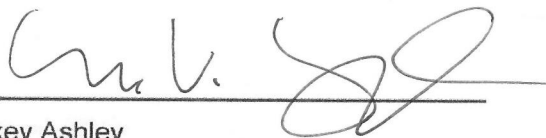
City of Roseville

Placer County, State of California

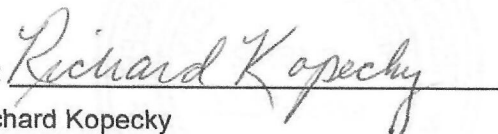
This Report describes the District and any relevant zones therein, including the improvements, budgets, parcels and assessments to be levied for Fiscal Year 2020/21 as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Placer County Assessor's maps for a detailed description of the lines and dimensions of parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the City Council.

Dated this 15th day of APRIL 2020

Willdan Financial Services
Assessment Engineer
On Behalf of the City of Roseville

By: 

Mickey Ashley
Senior Project Analyst
District Administration Services

By: 

Richard Kopecky
R. C. E. # 16742



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I. OVERVIEW

A. INTRODUCTION

The City of Roseville (“City”) annually levies and collects special assessments in order to maintain the improvements within the City’s existing Infill Area Landscaping and Lighting District (“District”). The District was formed and is levied annual assessments pursuant to the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the California Streets and Highways Code (the “Act”).

The Engineer’s Report (“Report”) describes the District, any new annexations, changes to the District, and the proposed assessments for the period of July 1, 2020 through June 30, 2021. The special benefit assessments are based on historical and estimated costs to maintain the District improvements. These assessments, which provide a direct and special benefit to properties within the District, will provide funding for the operation and maintenance of District improvements.

The District consists of three (3) zones of benefit, Zones A, B and C (individually the “Zone” and collectively the “Zones”). The improvements that benefit properties within each Zone and the costs to maintain and service those improvements are identified and budgeted separately by Zone. The total cost of landscape maintenance within a Zone is equitably spread among only the benefiting parcels.

The word “parcel,” for the purposes of this Report, refers to an individual property assigned its own Assessor’s Parcel Number (“APN”) by the Placer County Assessor’s Office. The Placer County Auditor/Controller uses Assessor’s Parcel Numbers and specific Tax Code Accounts, to identify on the County’s tax roll, properties assessed for special district benefit assessments.

Following approval of the Report, the City Council will by resolution, order the improvements to be made, if any, and confirm the levy and collection of assessments pursuant to the Act. The assessment rates and method of apportionment described in this Report, as approved or modified by the City Council, defines the assessments to be applied to each parcel within the District and respective Zones for Fiscal Year (“FY”) 2020/21. The assessments as approved will be submitted to the Placer County Auditor/Controller to be included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rates approved by the City Council.

B. COMPLIANCE WITH CURRENT LEGISLATION

All assessments described in this Report and approved by the City Council are prepared in accordance with the Act and are in compliance with the substantive and procedural requirements of the California State Constitution Articles XIIC and XIID (“Articles XIIC and XIID”) and the provisions of the Proposition 218 Omnibus Implementation Act [Government Code Section 53750 and following] (the “Implementation Act”). Articles XIIC and XIID and the Implementation Act collectively are hereinafter referred to as “Proposition 218”.

Pursuant to the California Constitution Article XIID Section 5, certain existing assessments are exempt from the substantive and procedural requirements of Article XIID Section 4 and property owner balloting for the assessments is not required until such time that the assessments are increased. Specifically, the City determined that all improvements and the annual assessments originally established for the District were part of the conditions of property development and approved by the original property owner (developer). As such, pursuant to Article XIID Section 5(b), all the property owners approved the existing District assessments at the time the assessments were created (originally imposed pursuant to a 100% landowner petition). Therefore, the pre-existing assessment amounts (the maximum assessment rates of Zones A, B, & C identified in this Report) are exempt from the procedural requirements Article XIID Section 4, provided the assessments are not increased above these previously approved maximum assessment rates.

The District and all Zones therein have been formed pursuant to the Act. Pursuant to the Act, an annual Public Hearing is conducted by the City Council to accept property owner and public comments, to review the Engineer’s Annual Levy Report prior to approving the annual assessments to be levied on the County tax rolls. The assessments described in this Report have been prepared in accordance with the Act.

C. DESCRIPTION OF DISTRICT BOUNDARIES

The three Zones within the District are comprised of three non-contiguous residential subdivisions, namely Pheasant Run, Cirby Oaks II and Reuter Ranch, are located in the southern portion of the City and are within the boundaries of the City’s “Infill Planning Area”. A general depiction of the boundaries of each Zone can be found in Appendix A of this Report.

D. IMPROVEMENTS AUTHORIZED BY THE 1972 ACT

As applicable or may be applicable to a proposed District, the 1972 Act defines improvements to mean one or any combination of the following:

- The installation or planting of landscaping.
- The installation or construction of statuary, fountains, and other ornamental structures and facilities.
- The installation or construction of public lighting facilities.
- The installation or construction of any facilities which are appurtenant to any of the foregoing or which are necessary or convenient for the maintenance or servicing thereof, including, but not limited to, grading, clearing, removal of debris, the installation or construction of curbs, gutters, walls, sidewalks, or paving, or water, irrigation, drainage, or electrical facilities.
- The maintenance or servicing, or both, of any of the foregoing.
- The acquisition of any existing improvement otherwise authorized pursuant to this section.

Incidental expenses associated with the improvements including, but not limited to:

- The cost of preparation of the report, including plans, specifications, estimates, diagram, and assessment;
- The costs of printing, advertising, and the publishing, posting and mailing of notices;
- Compensation payable to the County for collection of assessments;
- Compensation of any engineer or attorney employed to render services;
- Any other expenses incidental to the construction, installation, or maintenance and servicing of the improvements;
- Any expenses incidental to the issuance of bonds or notes pursuant to Section 22662.5.
- Costs associated with any elections held for the approval of a new or increased assessment.

The 1972 Act defines "Maintain" or "maintenance" to mean furnishing of services and materials for the ordinary and usual maintenance, operation, and servicing of any improvement, including:

- Repair, removal, or replacement of all or any part of any improvement.
- Providing for the life, growth, health, and beauty of landscaping, including cultivation, irrigation, trimming, spraying, fertilizing, or treating for disease or injury.

- The removal of trimmings, rubbish, debris, and other solid waste.
- The cleaning, sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Furthermore, the 1972 Act specifies that where the cost of improvements (other than maintenance and operations) is greater than can be conveniently raised from a single annual assessment, an assessment to be levied and collected in annual installments. In that event, the governing body may choose to do any of the following:

- Provide for the accumulation of the moneys in an improvement fund until there are sufficient moneys to pay all or part of the cost of the improvements.
- Provide for a temporary advance to the improvement fund from any available and unencumbered funds of the local agency to pay all or part of the cost of the improvements and collect those advanced moneys from the annual installments collected through the assessments.
- Borrow an amount necessary to finance the estimated cost of the proposed improvements. The amount borrowed, including amounts for bonds issued to finance the estimated cost of the proposed improvements.

E. DESCRIPTION OF IMPROVEMENTS AND BENEFITS

This District, by special benefit assessments, provides funding for the maintenance and operation of certain landscaping improvements located within the public right-of-way's and dedicated easements:

The District provides all services necessary to maintain the landscaped corridors adjacent to the privately-owned parcels comprising the three subdivisions. Improvements include shrubs, trees and other landscaping vegetation, as well as irrigation controllers, automatic valves and irrigation systems. Services provided include all necessary services, operations, and maintenance required in keeping the improvements in a healthy, vigorous condition and in proper working order.

The District encompasses three subdivisions, each of which is located in a separate Zone. The Zones have specific improvements and costs associated with those improvements that benefit the parcels within each respective Zone. The total cost of landscape maintenance within a Zone is equitably spread among only the benefiting parcels within the Zone and only parcels that receive a special benefit from the improvements are assessed.

The specific locations of the improvements within each Zone of the District are described as follows:

Zone A – Pheasant Run

Maintenance of 6,880 square feet of landscaping and related improvements within the Pheasant Run subdivision.

Zone B – Cirby Oaks

Maintenance of 7,447 square feet of landscaping and related improvements within the Cirby Oaks II subdivision.

Zone C – Reuter Ranch

Maintenance of 24,700 square feet of landscaping and related improvements within the Reuter Ranch subdivision. A larger amount of landscaping benefits the properties within Reuter Ranch and typically results in a larger per parcel assessment for these properties as compared to Zones A and B.

II. METHOD OF APPORTIONMENT

A. GENERAL

The Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements which include the construction, maintenance and servicing of public lights, landscaping and appurtenant facilities. The Act further requires that the cost of these improvements be levied according to benefit rather than assessed value:

“The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements.”

The formula used for calculating assessments in each Zone of the District therefore reflects the composition of the parcels, and the improvements and services provided, to fairly apportion the costs based on estimated benefit to each parcel.

B. SPECIAL BENEFIT ANALYSIS

In conjunction with the provisions of the 1972 Act, the California Constitution Article XIID addresses several key criteria for the levy of assessments, notably:

Article XIID Section 2d defines District as follows:

“District means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service”;

Article XIID Section 2i defines Special Benefit as follows:

“Special benefit” means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute “special benefit.”

Article XIID Section 4a defines proportional special benefit assessments as follows:

“An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public improvement, the maintenance and operation expenses of a public improvement,

or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.”

These improvements will directly benefit the parcels to be assessed within the District. The assessments and method of apportionment is based on the premise that the assessments will be used to construct and install landscape and lighting improvements within the District as well as provide for the annual maintenance of those improvements, and the assessment revenues generated by District will be used solely for such purposes.

Each of the proposed improvements; the associated costs and assessments have been reviewed, identified and allocated based on special benefit pursuant to the Act. All improvements associated with the Zones were necessary and required through the conditions of property development. Therefore, the improvements and the annual costs of ensuring the maintenance and operation of the improvements are of direct and special benefit to the properties.

The method of apportionment (method of assessment) is based on the premise that each assessed parcel within these Zones receives special benefit from the improvements. The desirability and security of properties is enhanced by well-maintained landscaping in close proximity to those properties.

The special benefits associated with all landscaping improvements are specifically:

- Enhanced desirability of properties through association with the improvements.
- Improved aesthetic appeal of properties providing a positive representation of the area and properties.
- Enhanced adaptation of the urban environment within the natural environment from adequate green space and landscaping.
- Environmental enhancement through improved erosion resistance, dust and debris control, and fire prevention.
- Increased sense of pride in ownership of property within the Zones resulting from well-maintained improvements associated with the properties.
- Enhanced quality of life through well-maintained green belts and landscaped areas.
- Reduced criminal activity and property-related crimes (especially vandalism) against properties in the Zones through well-maintained surroundings and amenities including abatement of graffiti.
- Enhanced environmental quality of the parcels by moderating temperatures, providing oxygenation and attenuating noise.

All of the preceding special benefits allowed the property to be developed for the enjoyment of the property owners and contribute to a specific enhancement and desirability of each of the assessed parcels within the Zones.

The improvements are for the special benefit, enhancement and use of properties within the Zones. Although the improvements include public easements, rights-of-way, streets and other amenities available or visible to the public at large, the construction and installation of these improvements are only necessary for the development of properties within the Zones and are not required nor necessarily desired by any properties or developments outside the Zone's boundaries. Therefore, any public access or use of the improvements by others is incidental and there is no measurable general benefit to properties outside the Zones or to the public at large.

C. RATE AND METHOD OF APPORTIONMENT

Pursuant to the Act, the costs of each Zone of the District must be spread to each parcel based upon a benefit formula. Each assessable parcel in the District receives a direct and special benefit from the improvements in the Zone. This direct and special benefit was determined to be equal for all dwelling units within each Zone; costs for each Zone shall be calculated separately within each respective Zone. Each single-family residence is equal to one dwelling unit (unit) and the formula used to arrive at each parcel's annual assessment is described below. Public parcels lying within the landscape corridors are considered to receive no benefit from the improvements and are therefore not assessed.

Costs associated with each Zone are to be charged only to assessable parcels within the respective Zone as follows:

$$\frac{\text{Balance to Levy in Zone}}{\text{Total Units in Zone}} = \text{Assessment Per Unit in Zone}$$

The Maximum Annual Assessment Rates are not to exceed \$193.32 per unit for Zone A and \$200.00 per unit for Zones B and C.

III. DISTRICT BUDGET

A. 2020/21 BUDGET

DESCRIPTION	ZONE A (Pheasant Run) Fund 2014	ZONE B (Cirby Oaks II) Fund 2015	ZONE C (Reuter Ranch) Fund 2017
<u>DIRECT COSTS</u>			
Contract Maintenance - Landscaping	\$1,323.00	\$1,941.00	\$3,832.00
Repair & Maintenance - Landscaping	\$2,120.00	\$3,000.00	\$2,500.00
Utilities	2,000.00	1,500.00	2,310.00
Rehab Reserve Project Expenditures	<u>1,400.00</u>	<u>8,500.00</u>	<u>10,000.00</u>
Total Direct Costs	\$6,843.00	\$14,941.00	\$18,642.00
<u>ADMINISTRATION COSTS</u>			
City Administration	\$155.00	\$2.00	\$158.00
Contract Administration - Park's Dept	1,150.00	1,213.00	1,954.00
County Auditor Fees	77.33	95.26	132.00
Consulting & Professional Services	678.10	1,480.57	1,847.32
Consultant Incidental Expenses	6.77	14.78	18.45
Public Hearing Publishing Costs	<u>300.00</u>	<u>280.00</u>	<u>295.00</u>
Total Administrative Costs	\$2,367.20	\$3,085.61	\$4,404.77
Total Direct and Administration Costs	\$9,210.20	\$18,026.61	\$23,046.77
<u>BUDGET ADJUSTMENTS</u>			
Replenishment/(Use) of Operating Reserve	(\$77.40)	\$0.00	\$153.23
Contribution for /(Use of) Rehab Reserve	(1,400.00)	(8,500.00)	(10,000.00)
Rounding Adjustment		<u>(0.69)</u>	
Total Adjustments	(\$1,477.40)	(\$8,500.69)	(\$9,846.77)
BALANCE TO LEVY	\$7,732.80	\$9,525.92	\$13,200.00

Fund balance information of each Zone is reported in Section C on the following page.

B. 2020/21 ASSESSMENT RATES

DESCRIPTION	ZONE A (Pheasant Run) Fund 2014	ZONE B (Cirby Oaks II) Fund 2015	ZONE C (Reuter Ranch) Fund 2017
APPLIED ASSESSMENT RATES			
Number of Assessable Units	40	116	66
Applied Assessment Rate Per Unit	\$193.32	\$82.12	\$200.00
Maximum Assessment Rate Per Unit	\$193.32	\$200.00	\$200.00
Potential Maximum Assessment Per Zone	\$7,732.80	\$23,200.00	\$13,200.00

C. 2020/21 FUND BALANCE INFORMATION

DESCRIPTION	ZONE A (Pheasant Run) Fund 2014	ZONE B (Cirby Oaks II) Fund 2015	ZONE C (Reuter Ranch) Fund 2017
OPERATING RESERVE			
Beginning Operating Reserve Balance 7-1-2020 (est.)	\$2,566.49	\$19,831.28	(\$1,942.43)
add: Replenishment from FY 20/21 Levy			153.23
less: Use for FY 20/21 Expenses	(77.40)		
Transfer from/(to) the Rehab Reserve	932.41	(12,360.78)	11,110.20
Ending Operating Reserve Balance 6-30-2021 (est.)	\$3,421.50	\$7,470.50	\$9,321.00
REHABILITATION RESERVE			
Beginning Rehab Reserve Balance 7-1-2020 (est.)	\$16,205.00	\$25,866.91	\$36,794.03
add: Collect from FY 20/21 Levy			
less: Use for FY 20/21 Rehab Projects	(1,400.00)	(8,500.00)	(10,000.00)
Transfer from/(to) the Operating Reserve	(932.41)	12,360.78	(11,110.20)
Ending Rehab Reserve Balance 6-30-2021 (est.)	\$13,872.59	\$29,727.69	\$15,683.83

D. DESCRIPTION OF BUDGET ITEMS

Description of the terms used in the preceding Budget, Assessment Rates and Fund Balance tables are listed below:

BUDGET:

DIRECT COSTS

Contract Maintenance - Landscaping - Includes all regularly scheduled contract labor, materials, supplies and equipment required to properly maintain and ensure the satisfactory condition or maintenance of all landscaping corridors, street

medians, entryways, irrigation and related drainage systems as well as maintenance of appurtenant facilities (the “improvements”).

Utilities - The furnishing of water and electricity required for the operation and maintenance of the improvements.

Repair & Maintenance – Landscaping - This line item includes repairs that are generally unforeseen and not normally included in the annual maintenance contract costs. This may include repair of damaged amenities due to vandalism, storms, etc. If zero, this line item may not be shown in the budget.

Rehab Reserve Project Expenditures – Expected costs for installation, replacement or planned upgrades of District improvements for the current year that were previously funded or accumulated in the Rehabilitation Reserve. The Rehabilitation Reserve is used to accumulate funds for costs associated with the future rehabilitation or replacement of District improvements that cannot be conveniently raised from a single year’s assessment. If zero, this line item may not be shown in the budget.

ADMINISTRATION COSTS

City Administration – Estimated costs incurred by the City Finance Department and other Departments in preparing the annual budget for the Engineer’s Report, together with other financial information required to determine the annual assessment. These costs would also include the preparation, posting and publishing of public notices required for City Council action relating to the District, as well as costs to perform legal review of documents.

Contract Administration – Park’s Dept – Estimated Costs of Park and Recreation Department staff to coordinate and oversee the maintenance contracts and overall repair and maintenance of the District. This amount also includes the cost of the Department’s estimates and analysis of certain budget items, estimated costs and useful lives of certain District Improvements.

County Auditor Fees - A fee of 1% of the total levy amount that is charged to the District by the County for placing assessments on property tax bills.

Consulting and Professional Services – Includes the costs and expenses of contracting with various professionals to provide legal, engineering and district administration services directly related to the District, including the calculation of the annual assessment amounts and the preparation of the Engineer’s Report.

Public Hearing Publishing Costs –Includes the out of pocket costs to publish public notices required for City Council action relating to the District.

Total Direct and Administration Costs – The total expected costs of the District.

BUDGET ADJUSTMENTS

Replenishment/(Use) of Operating Reserve – A “Replenishment” increases the levy in order to replenish the Operating Reserve. On the other hand, a “Use” of the Operating Reserve decreases the levy by drawing funds from the Operating Reserve for current year expenditures. If zero, this line item may not be shown in the budget. Further information regarding the function of the Operating Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Contribution for / (Use of) Rehab Reserve — A “Contribution” increases the levy in order to generate funding for the Rehabilitation Reserve. This reserve allows for the accumulation of funds for the possible rehabilitation projects or replacements in future years. On the other hand, a “Use of” of the Rehabilitation Reserve provides current year funding of rehabilitation projects or replacements from available funds within the Rehabilitation Reserve. If zero, this line item may not be shown in the budget. Further information regarding the function of the Rehabilitation Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Rounding Adjustment – The necessary rounding adjustment(s) due to limitations of the County property tax system that requires even penny levy amounts to be placed on the secured tax roll.

BALANCE TO LEVY - This is the total amount to be levied and collected through assessments for the current fiscal year for each zone. The Balance to Levy represents the sum of the total District costs together with any applicable adjustments to the budget as described above.

ASSESSMENT RATES:

APPLIED ASSESSMENT RATES

Number of Assessable Units - The total number of residential units that are expected to be assessed. Non-assessable lots or parcels include government-owned land, public utility-owned property, land principally encumbered by public right-of-way's or easements, common areas, and/or parcels within the boundaries of the District currently do not benefit from the improvements and are therefore not assessed.

Applied Assessment Rate per Unit - The per unit assessment rates to be applied to the non-exempt parcels within the District for the current fiscal year.

Maximum Assessment Rate per Unit - The per unit maximum assessment rates for current fiscal year.

Potential Maximum Assessment Per Zone – The total amount that can be assessed against all parcels within each Zone for the current fiscal year based upon the expected number of units to be assessed.

FUND BALANCE INFORMATION:

OPERATING RESERVE

Beginning Operating Reserve Balance 7-1-2020 (est.) - The anticipated beginning balance of cash and receivables net of any unpaid prior year obligations for each Zone. These beginning balances shall be used to fund each Zone's expenditures from July 1, 2020 to December 31, 2020, as the Operating Reserve is required to compensate for the approximate six-month delay between the start of the District's fiscal year and the receipt of the collections from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

Replenish from FY 20/21 Levy – This amount is added to the levy in order to replenish the Operating Reserve. Due to the six-month delay from the District's receipt of assessment collections, the Operating Reserve balance shall be sufficiently funded to provide for expenditures from the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Expenses – The amount of the Operating Reserve to be used to fund FY 20/21 expenses. Portions of the Operating Reserve may be slated for current year expenditures in order to reduce the Ending Operating Reserve Balance to an amount no greater than the expected District costs for the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Rehab Reserve — The amount of Operating Reserve monies to be transferred to or from the Rehabilitation Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Operating Reserve Balance 6-30-2021 (est.) - This amount represents the anticipated Operating Reserve balance/(deficit) for each Zone as of June 30, 2021. The size of each Zone's Operating Reserve is limited by Streets and Highways Code 22569 which states that an Operating Reserve shall not exceed the estimated costs of maintenance, service and incidental expenses from the first day of the fiscal year (July 1) to the date that the Agency expects to receive the first apportionment of collections from the County, which is estimated to be December 31. Therefore, each Zone may retain an Operating Reserve amounting to the District's first six-months of expenses in order to meet ongoing obligations until the first collections are received from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

REHABILITATION RESERVE

Beginning Rehab Reserve Balance 7-1-2020 (est.) — The projected balance of funds in the Rehabilitation Reserve as of July 1, 2020. Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

Collect from FY 20/21 Levy — This amount is added to the levy to accumulate funding of future year rehabilitation projects, replacements, restorations or upgrades of District improvements. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Rehab Projects – The amount of Rehabilitation Reserve monies expected to be transferred out of the Rehabilitation Reserve to fund the costs of installation, replacement or planned upgrades of District improvements for the current year. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Operating Reserve — The amount of Rehabilitation Reserve monies to be transferred to or from the Operating Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Rehab Reserve Balance 6-30-2021 (est.) - The projected balance of funds in the Rehabilitation Reserve as of June 30, 2021. These funds shall be used to provide for future year rehabilitation projects, replacements, restorations or upgrades of District improvements which cannot be conveniently raised from a single year's assessment.

E. REHABILITATION RESERVE – CAPITAL IMPROVEMENT PLAN

Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

For each Zone showing a projected ending Rehabilitation Reserve balance or projected FY 2020/21 expenditures for Rehabilitation Reserve Project, a five-year Capital Improvement Plan showing the projected expenditures related to the rehabilitation, restoration and/or replacement of District improvements and other allowable costs, is shown below.

Zone A.

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Repair and/or refurbish sound wall improvements	\$0	\$0	\$5,000	\$0	\$0	\$5,000
Replace, repair, renovate and/or refurbish plants, landscape & related materials	\$1,000	\$2,000	\$2,000	\$2,000	\$2,500	\$8,500
Grid tree pruning, removal and replacement of declining trees	\$400	\$400	\$400	\$400	\$400	\$1,600
Total Zone A Expenditures	\$1,400	\$2,400	\$7,400	\$2,400	\$2,900	\$15,100

Zone B.

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Repair and/or refurbish sound wall improvements	\$5,000	\$2,000	\$1,000	\$1,000	\$0	\$4,000
Replace, repair, renovate and/or refurbish plants, landscape & related materials	\$3,000	\$15,000	\$3,000	\$3,000	\$3,000	\$24,000
Grid tree pruning, removal and replacement of declining trees	\$580	\$580	\$580	\$580	\$580	\$2,320
Total Zone B Expenditures	\$8,580	\$17,580	\$4,580	\$4,580	\$3,580	\$30,320

Zone C.

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Repair and/or refurbish sound wall improvements		\$5,000	\$0	\$0	\$0	\$5,000
Replace, repair, renovate and/or refurbish plants, landscape & related materials		\$5,000	\$5,000	\$6,000	\$6,000	\$22,000
Replace or upgrade irrigation controller	\$10,000	\$0	\$0	\$0	\$0	\$0
Total Zone C Expenditures	\$10,000	\$10,000	\$5,000	\$6,000	\$6,000	\$27,000

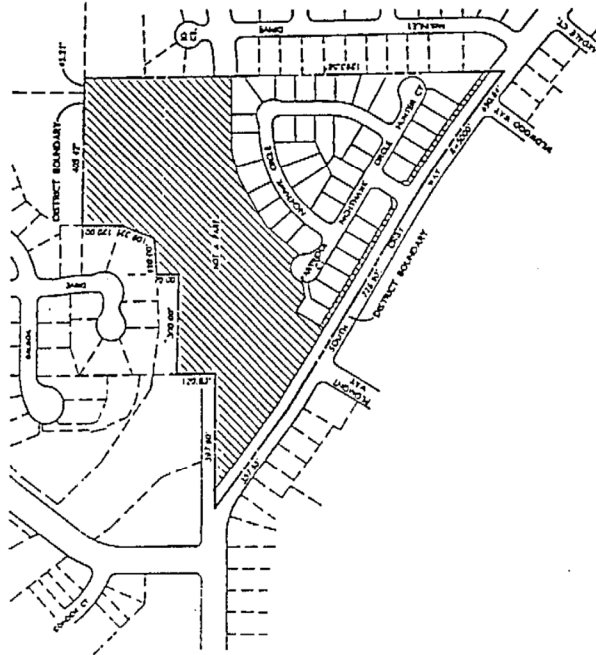
Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements.

APPENDIX A – DISTRICT BOUNDARY MAPS

The Assessment Diagrams for the District have previously been submitted to the City Clerk in the format required under the Act and are, by reference, made part of this Report. The boundary maps are available for inspection at the office of the City Clerk during normal business hours.

For general reference purposes, a rendering of the District and Zone Boundaries are presented herein.

PROPOSED BOUNDARIES OF
PHEASANT RUN
LIGHTING AND LANDSCAPING DISTRICT
ASSESSMENT YEAR 1996-1997
PLACER COUNTY, CITY OF ROSEVILLE, CALIFORNIA
MAY, 1996 SCALE 1"=200'
MORTON & PITALO, INC.
SHEET 1 OF 1 SHEET



LEGEND
-----ASSESSMENT DISTRICT BOUNDARY
18.....SUBDIVISION LOT NUMBER
//////.....NOT A PART OF THIS ASSESSMENT DISTRICT

NOTES
1. DISTANCES ALONG CURVED LINES ARE CHORD MEASUREMENTS.

CLIENTS MAP PLANE STATEMENT
FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF ROSEVILLE, STATE OF CALIFORNIA, THIS _____ DAY OF _____ 19__.

"CITY CLERK, CITY OF ROSEVILLE"

CLIENTS MAP STATEMENT
THE WITHIN MAP SHOWING PROPOSED BOUNDARIES OF PLACER COUNTY, CITY OF ROSEVILLE, CALIFORNIA, HAS BEEN PREPARED BY THE CITY CLERK OF THE CITY OF ROSEVILLE, CALIFORNIA, AT A REGULAR MEETING HELD ON THE _____ DAY OF _____ 19__.

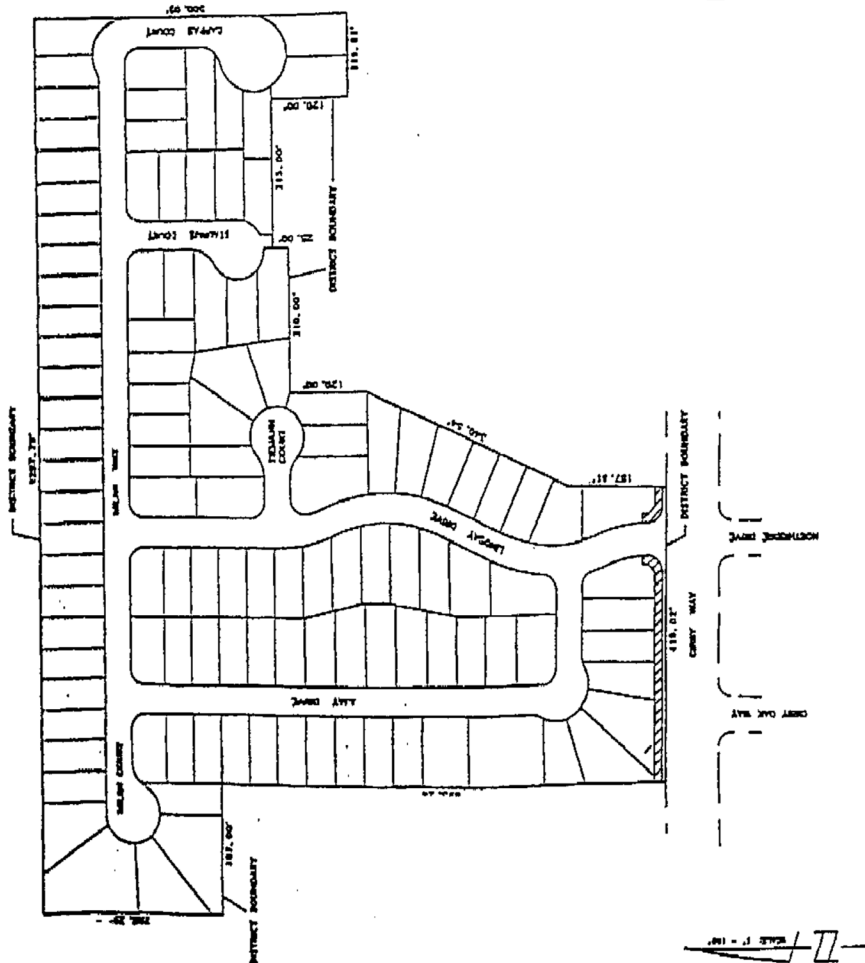
"CITY CLERK, CITY OF ROSEVILLE
COUNTY OF PLACER"

COUNTY RECORDERS FILING STATEMENT
FILED THIS _____ DAY OF _____ 19__ AT THE HOLD OF _____ COUNTY OF PLACER, CALIFORNIA, IN THE OFFICE OF THE COUNTY RECORDERS IN THE COUNTY OF PLACER, STATE OF CALIFORNIA.

"JIM MCQUALLY, COUNTY RECORDER
COUNTY OF PLACER, CALIFORNIA"

FILED _____ BY _____

Zone B



CLIENT'S MAP FILING STATEMENT:
 I, the undersigned, being duly sworn, depose and say that the above described map is a true and correct copy of the map as the same appears on the files of the City of Roseville, State of California, and that the same is a true and correct copy of the map as the same appears on the files of the City of Roseville, State of California.

 CITY CLERK, CITY OF ROSEVILLE

CLIENT'S MAP FILING STATEMENT:
 I, the undersigned, being duly sworn, depose and say that the above described map is a true and correct copy of the map as the same appears on the files of the City of Roseville, State of California, and that the same is a true and correct copy of the map as the same appears on the files of the City of Roseville, State of California.

 CITY CLERK, CITY OF ROSEVILLE

COUNTY RECORDER'S FILING STATEMENT
 I, the undersigned, being duly sworn, depose and say that the above described map is a true and correct copy of the map as the same appears on the files of the City of Roseville, State of California, and that the same is a true and correct copy of the map as the same appears on the files of the City of Roseville, State of California.

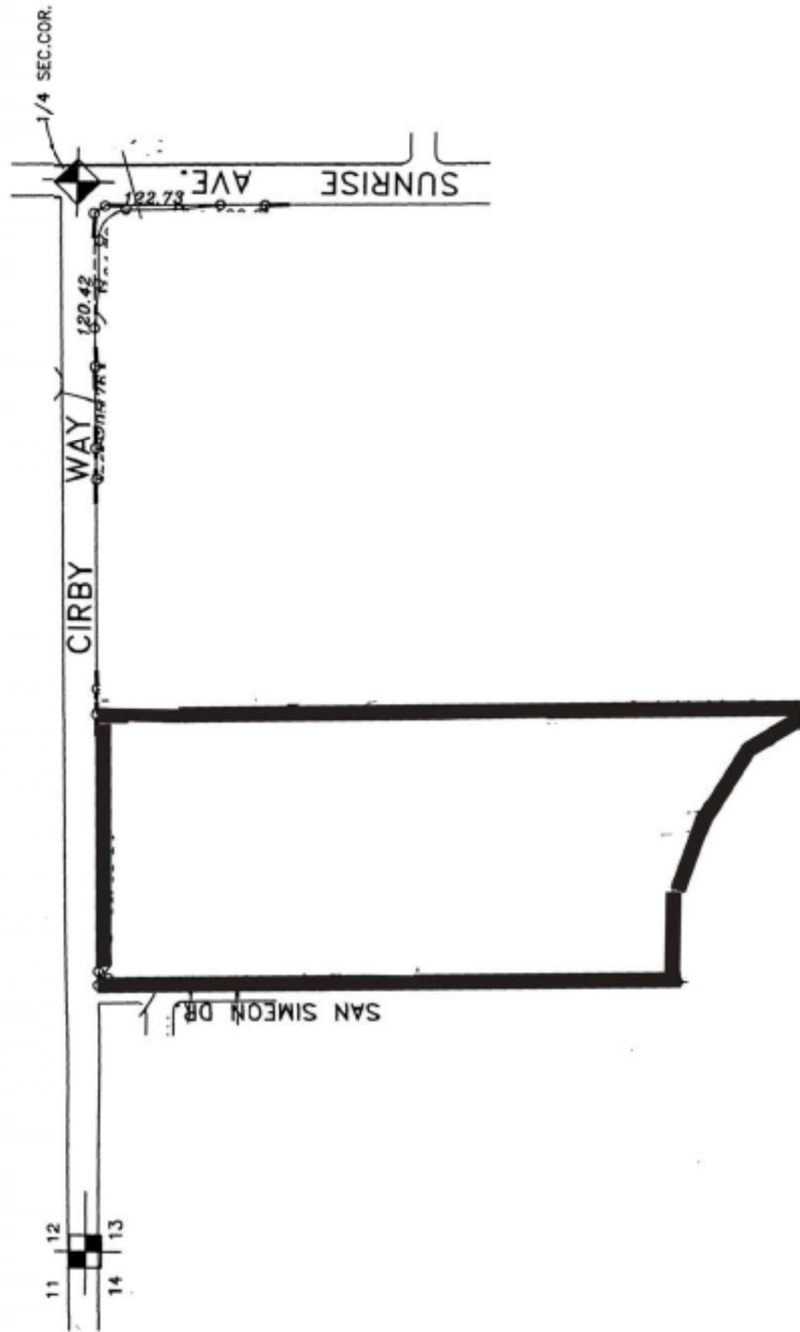
 JAIL MAGISTRATE, COUNTY RECORDER

 COUNTY OF PLACER, CALIFORNIA

LEGEND:
 ASSESSMENT DISTRICT BOUNDARY

PROPOSED BOUNDARIES OF
 ZONE B INFILL
 LIGHTING AND LANDSCAPING DISTRICT
 ASSESSMENT YEAR 1996-1997
 CITY OF ROSEVILLE, PLACER COUNTY, CALIFORNIA
 OCTOBER, 1996 SCALE: 1"=100'
 The **SpInk** Corporation
 SHEET 1 OF 1 SHEET

Zone C **(Reuter Ranch)**



APPENDIX B — 2020/21 ASSESSMENT ROLL

Parcel identification, for each lot or parcel within the District, shall be the parcel as shown on the Placer County Assessor's map for the year in which this Report is prepared.

Due to the size of the Assessment Roll, a listing of parcels to be assessed within this District, along with the proposed assessment amounts, shall be submitted to the City Clerk, under a separate cover, and by reference is made part of this Report.

Non-assessable lots or parcels may include areas of public streets and other roadways (typically not assigned an APN by the County); dedicated public easements, open space areas and rights-of-ways including public greenbelts and parkways; utility rights-of-ways; common areas; landlocked parcels, small parcels vacated by the County, bifurcated lots, and any other property that cannot be developed. These types of parcels are considered to receive little or no benefit from the improvements and are therefore exempted from assessment.

At the conclusion of the public hearing for the District and the proposed assessments, approval of the Report (as submitted or as modified) confirms the method of apportionment and the assessment rate to be levied against each eligible parcel and thereby constitutes the approved levy and collection of assessments for FY 2020/21. The listing of parcels and the amount of assessment to be levied shall be submitted to the County Auditor/Controller and included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved in this Report. Therefore, if a single parcel has changed to multiple parcels, the assessment amount applied to each of the new parcels shall be recalculated and applied according to the approved method of apportionment and assessment rate rather than a proportionate share of the original assessment.

City of Roseville
Infill Area Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	ASSESSMENT	MAXIMUM ASSESSMENT	NO OF UNITS	LEGAL DESCRIPTION
469-370-001-000	A	193.32	193.32	1.0	LOT 1 PHEASANT RUN MOR T-20
469-370-002-000	A	193.32	193.32	1.0	LOT 2 PHEASANT RUN MOR T-20
469-370-003-000	A	193.32	193.32	1.0	LOT 3 PHEASANT RUN MOR T-20
469-370-004-000	A	193.32	193.32	1.0	LOT 4 PHEASANT RUN MOR T-20
469-370-005-000	A	193.32	193.32	1.0	LOT 5 PHEASANT RUN MOR T-20
469-370-006-000	A	193.32	193.32	1.0	LOT 6 PHEASANT RUN MOR T-20
469-370-007-000	A	193.32	193.32	1.0	LOT 7 PHEASANT RUN MOR T-20
469-370-008-000	A	193.32	193.32	1.0	LOT 8 PHEASANT RUN MOR T-20
469-370-009-000	A	193.32	193.32	1.0	LOT 9 PHEASANT RUN MOR T-20
469-370-010-000	A	193.32	193.32	1.0	LOT 10 PHEASANT RUN MOR T-20
469-370-011-000	A	193.32	193.32	1.0	LOT 11 PHEASANT RUN MOR T-20
469-370-012-000	A	193.32	193.32	1.0	LOT 12 PHEASANT RUN MOR T-20
469-370-013-000	A	193.32	193.32	1.0	LOT 13 PHEASANT RUN MOR T-20
469-370-014-000	A	193.32	193.32	1.0	LOT 14 PHEASANT RUN MOR T-20
469-370-015-000	A	193.32	193.32	1.0	LOT 15 PHEASANT RUN MOR T-20
469-370-016-000	A	193.32	193.32	1.0	LOT 16 PHEASANT RUN MOR T-20
469-370-017-000	A	193.32	193.32	1.0	LOT 17 PHEASANT RUN MOR T-20
469-370-018-000	A	193.32	193.32	1.0	LOT 18 PHEASANT RUN MOR T-20
469-370-019-000	A	193.32	193.32	1.0	LOT 19 PHEASANT RUN MOR T-20
469-370-020-000	A	193.32	193.32	1.0	LOT 20 PHEASANT RUN MOR T-20
469-370-021-000	A	193.32	193.32	1.0	LOT 21 PHEASANT RUN MOR T-20
469-370-022-000	A	193.32	193.32	1.0	LOT 22 PHEASANT RUN MOR T-20
469-370-023-000	A	193.32	193.32	1.0	LOT 23 PHEASANT RUN MOR T-20
469-370-024-000	A	193.32	193.32	1.0	LOT 24 PHEASANT RUN MOR T-20
469-370-025-000	A	193.32	193.32	1.0	LOT 25 PHEASANT RUN MOR T-20
469-370-026-000	A	193.32	193.32	1.0	LOT 26 PHEASANT RUN MOR T-20
469-370-027-000	A	193.32	193.32	1.0	LOT 27 PHEASANT RUN MOR T-20
469-370-028-000	A	193.32	193.32	1.0	LOT 28 PHEASANT RUN MOR T-20
469-370-029-000	A	193.32	193.32	1.0	LOT 29 PHEASANT RUN MOR T-20
469-370-030-000	A	193.32	193.32	1.0	LOT 30 PHEASANT RUN MOR T-20
469-370-031-000	A	193.32	193.32	1.0	LOT 31 PHEASANT RUN MOR T-20
469-370-032-000	A	193.32	193.32	1.0	LOT 32 PHEASANT RUN MOR T-20
469-370-033-000	A	193.32	193.32	1.0	LOT 33 PHEASANT RUN MOR T-20
469-370-034-000	A	193.32	193.32	1.0	LOT 34 PHEASANT RUN MOR T-20
469-370-035-000	A	193.32	193.32	1.0	LOT 35 PHEASANT RUN MOR T-20
469-370-036-000	A	193.32	193.32	1.0	LOT 36 PHEASANT RUN MOR T-20
469-370-037-000	A	193.32	193.32	1.0	LOT 37 PHEASANT RUN MOR T-20
469-370-038-000	A	193.32	193.32	1.0	LOT 38 PHEASANT RUN MOR T-20
469-370-039-000	A	193.32	193.32	1.0	LOT 39 PHEASANT RUN MOR T-20
469-370-040-000	A	193.32	193.32	1.0	LOT 40 PHEASANT RUN MOR T-20
471-150-018-000	C	200.00	200.00	1.0	LOT 34 REUTER RANCH PH 1
471-150-019-000	C	200.00	200.00	1.0	LOT 35 REUTER RANCH PH 1
471-150-020-000	C	200.00	200.00	1.0	LOT 36 REUTER RANCH PH 1
471-150-021-000	C	200.00	200.00	1.0	LOT 41 REUTER RANCH PH 1
471-320-001-000	C	200.00	200.00	1.0	LOT 1 REUTER RANCH UNIT 1 PH 2 U-68
471-320-002-000	C	200.00	200.00	1.0	LOT 2 REUTER RANCH UNIT 1 PH 2 U-68
471-320-003-000	C	200.00	200.00	1.0	LOT 3 REUTER RANCH UNIT 1 PH 2 U-68
471-320-004-000	C	200.00	200.00	1.0	LOT 4 REUTER RANCH UNIT 1 PH 2 U-68
471-320-005-000	C	200.00	200.00	1.0	LOT 5 REUTER RANCH UNIT 1 PH 2 U-68
471-320-006-000	C	200.00	200.00	1.0	LOT 6 REUTER RANCH UNIT 1 PH 2 U-68
471-320-007-000	C	200.00	200.00	1.0	LOT 7 REUTER RANCH UNIT 1 PH 2 U-68
471-320-008-000	C	200.00	200.00	1.0	LOT 8 REUTER RANCH UNIT 1 PH 2 U-68
471-320-009-000	C	200.00	200.00	1.0	LOT 9 REUTER RANCH UNIT 1 PH 2 U-68
471-320-010-000	C	200.00	200.00	1.0	LOT 10 REUTER RANCH UNIT 1 PH 2 U-68
471-320-011-000	C	200.00	200.00	1.0	LOT 11 REUTER RANCH UNIT 1 PH 2 U-68
471-320-012-000	C	200.00	200.00	1.0	LOT 12 REUTER RANCH UNIT 1 PH 2 U-68
471-320-013-000	C	200.00	200.00	1.0	LOT 13 REUTER RANCH UNIT 1 PH 2 U-68
471-320-014-000	C	200.00	200.00	1.0	LOT 14 REUTER RANCH UNIT 1 PH 2 U-68
471-320-015-000	C	200.00	200.00	1.0	LOT 15 REUTER RANCH UNIT 1 PH 2 U-68
471-320-016-000	C	200.00	200.00	1.0	LOT 16 REUTER RANCH UNIT 1 PH 2 U-68

City of Roseville
Infill Area Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	ASSESSMENT	MAXIMUM ASSESSMENT	NO OF UNITS	LEGAL DESCRIPTION
471-320-017-000	C	200.00	200.00	1.0	LOT 17 REUTER RANCH UNIT 1 PH 2 U-68
471-320-018-000	C	200.00	200.00	1.0	LOT 18 REUTER RANCH UNIT 1 PH 2 U-68
471-320-019-000	C	200.00	200.00	1.0	LOT 19 REUTER RANCH UNIT 1 PH 2 U-68
471-320-020-000	C	200.00	200.00	1.0	LOT 20 REUTER RANCH UNIT 1 PH 2 U-68
471-320-021-000	C	200.00	200.00	1.0	LOT 21 REUTER RANCH UNIT 1 PH 2 U-68
471-320-022-000	C	200.00	200.00	1.0	LOT 22 REUTER RANCH UNIT 1 PH 2 U-68
471-320-023-000	C	200.00	200.00	1.0	LOT 23 REUTER RANCH UNIT 1 PH 2 U-68
471-320-024-000	C	200.00	200.00	1.0	LOT 24 REUTER RANCH UNIT 1 PH 2 U-68
471-320-025-000	C	200.00	200.00	1.0	LOT 25 REUTER RANCH UNIT 1 PH 2 U-68
471-320-026-000	C	200.00	200.00	1.0	LOT 26 REUTER RANCH UNIT 1 PH 2 U-68
471-320-027-000	C	200.00	200.00	1.0	LOT 27 REUTER RANCH UNIT 1 PH 2 U-68
471-320-028-000	C	200.00	200.00	1.0	LOT 28 REUTER RANCH UNIT 1 PH 2 U-68
471-320-029-000	C	200.00	200.00	1.0	LOT 29 REUTER RANCH UNIT 1 PH 2 U-68
471-320-030-000	C	200.00	200.00	1.0	LOT 30 REUTER RANCH UNIT 1 PH 2 U-68
471-320-031-000	C	200.00	200.00	1.0	LOT 31 REUTER RANCH UNIT 1 PH 2 U-68
471-320-032-000	C	200.00	200.00	1.0	LOT 32 REUTER RANCH UNIT 1 PH 2 U-68
471-320-033-000	C	200.00	200.00	1.0	LOT 33 REUTER RANCH UNIT 1 PH 2 U-68
471-330-001-000	C	200.00	200.00	1.0	LOT 37 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-002-000	C	200.00	200.00	1.0	LOT 38 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-003-000	C	200.00	200.00	1.0	LOT 39 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-004-000	C	200.00	200.00	1.0	LOT 40 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-005-000	C	200.00	200.00	1.0	LOT 42 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-006-000	C	200.00	200.00	1.0	LOT 43 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-007-000	C	200.00	200.00	1.0	LOT 44 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-008-000	C	200.00	200.00	1.0	LOT 45 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-009-000	C	200.00	200.00	1.0	LOT 46 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-010-000	C	200.00	200.00	1.0	LOT 47 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-011-000	C	200.00	200.00	1.0	LOT 48 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-012-000	C	200.00	200.00	1.0	LOT 49 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-013-000	C	200.00	200.00	1.0	LOT 50 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-014-000	C	200.00	200.00	1.0	LOT 51 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-015-000	C	200.00	200.00	1.0	LOT 52 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-016-000	C	200.00	200.00	1.0	LOT 53 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-017-000	C	200.00	200.00	1.0	LOT 54 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-018-000	C	200.00	200.00	1.0	LOT 55 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-019-000	C	200.00	200.00	1.0	LOT 56 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-020-000	C	200.00	200.00	1.0	LOT 57 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-021-000	C	200.00	200.00	1.0	LOT 58 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-022-000	C	200.00	200.00	1.0	LOT 59 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-023-000	C	200.00	200.00	1.0	LOT 60 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-024-000	C	200.00	200.00	1.0	LOT 61 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-025-000	C	200.00	200.00	1.0	LOT 62 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-026-000	C	200.00	200.00	1.0	LOT 63 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-027-000	C	200.00	200.00	1.0	LOT 64 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-028-000	C	200.00	200.00	1.0	LOT 65 REUTER RANCH UNIT 1 PH 3 MOR V-66
471-330-029-000	C	200.00	200.00	1.0	LOT 66 REUTER RANCH UNIT 1 PH 3 MOR V-66
472-420-001-000	B	82.12	200.00	1.0	LOT 1 CIRBY OAKS II T-57
472-420-002-000	B	82.12	200.00	1.0	LOT 2 CIRBY OAKS II T-57
472-420-003-000	B	82.12	200.00	1.0	LOT 3 CIRBY OAKS II T-57
472-420-004-000	B	82.12	200.00	1.0	LOT 4 CIRBY OAKS II T-57
472-420-005-000	B	82.12	200.00	1.0	LOT 5 CIRBY OAKS II T-57
472-420-006-000	B	82.12	200.00	1.0	LOT 6 CIRBY OAKS II T-57
472-420-007-000	B	82.12	200.00	1.0	LOT 7 CIRBY OAKS II T-57
472-420-008-000	B	82.12	200.00	1.0	LOT 8 CIRBY OAKS II T-57
472-420-009-000	B	82.12	200.00	1.0	LOT 9 CIRBY OAKS II T-57
472-420-010-000	B	82.12	200.00	1.0	LOT 10 CIRBY OAKS II T-57
472-420-011-000	B	82.12	200.00	1.0	LOT 11 CIRBY OAKS II T-57
472-420-012-000	B	82.12	200.00	1.0	LOT 12 CIRBY OAKS II T-57
472-420-013-000	B	82.12	200.00	1.0	LOT 13 CIRBY OAKS II T-57
472-420-014-000	B	82.12	200.00	1.0	LOT 14 CIRBY OAKS II T-57

City of Roseville
Infill Area Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	ASSESSMENT	MAXIMUM ASSESSMENT	NO OF UNITS	LEGAL DESCRIPTION
472-420-015-000	B	82.12	200.00	1.0	LOT 15 CIRBY OAKS II T-57
472-420-016-000	B	82.12	200.00	1.0	LOT 16 CIRBY OAKS II T-57
472-420-017-000	B	82.12	200.00	1.0	LOT 34 CIRBY OAKS II T-57
472-420-018-000	B	82.12	200.00	1.0	LOT 35 CIRBY OAKS II T-57
472-420-019-000	B	82.12	200.00	1.0	LOT 36 CIRBY OAKS II T-57
472-420-020-000	B	82.12	200.00	1.0	LOT 37 CIRBY OAKS II T-57
472-420-021-000	B	82.12	200.00	1.0	LOT 38 CIRBY OAKS II T-57
472-420-022-000	B	82.12	200.00	1.0	LOT 39 CIRBY OAKS II T-57
472-420-023-000	B	82.12	200.00	1.0	LOT 40 CIRBY OAKS II T-57
472-420-024-000	B	82.12	200.00	1.0	LOT 41 CIRBY OAKS II T-57
472-420-025-000	B	82.12	200.00	1.0	LOT 42 CIRBY OAKS II T-57
472-420-026-000	B	82.12	200.00	1.0	LOT 43 CIRBY OAKS II T-57
472-420-027-000	B	82.12	200.00	1.0	LOT 44 CIRBY OAKS II T-57
472-420-028-000	B	82.12	200.00	1.0	LOT 45 CIRBY OAKS II T-57
472-420-029-000	B	82.12	200.00	1.0	LOT 46 CIRBY OAKS II T-57
472-420-030-000	B	82.12	200.00	1.0	LOT 47 CIRBY OAKS II T-57
472-420-031-000	B	82.12	200.00	1.0	LOT 48 CIRBY OAKS II T-57
472-420-032-000	B	82.12	200.00	1.0	LOT 49 CIRBY OAKS II T-57
472-420-033-000	B	82.12	200.00	1.0	LOT 50 CIRBY OAKS II T-57
472-420-034-000	B	82.12	200.00	1.0	LOT 51 CIRBY OAKS II T-57
472-420-035-000	B	82.12	200.00	1.0	LOT 52 CIRBY OAKS II T-57
472-420-036-000	B	82.12	200.00	1.0	LOT 53 CIRBY OAKS II T-57
472-420-037-000	B	82.12	200.00	1.0	LOT 54 CIRBY OAKS II T-57
472-420-038-000	B	82.12	200.00	1.0	LOT 101 CIRBY OAKS II T-57
472-420-039-000	B	82.12	200.00	1.0	LOT 102 CIRBY OAKS II T-57
472-420-040-000	B	82.12	200.00	1.0	LOT 103 CIRBY OAKS II T-57
472-420-041-000	B	82.12	200.00	1.0	LOT 104 CIRBY OAKS II T-57
472-420-042-000	B	82.12	200.00	1.0	LOT 105 CIRBY OAKS II T-57
472-420-043-000	B	82.12	200.00	1.0	LOT 106 CIRBY OAKS II T-57
472-420-044-000	B	82.12	200.00	1.0	LOT 107 CIRBY OAKS II T-57
472-420-045-000	B	82.12	200.00	1.0	LOT 108 CIRBY OAKS II T-57
472-420-046-000	B	82.12	200.00	1.0	LOT 109 CIRBY OAKS II T-57
472-420-047-000	B	82.12	200.00	1.0	LOT 110 CIRBY OAKS II T-57
472-420-048-000	B	82.12	200.00	1.0	LOT 111 CIRBY OAKS II T-57
472-420-049-000	B	82.12	200.00	1.0	LOT 112 CIRBY OAKS II T-57
472-420-050-000	B	82.12	200.00	1.0	LOT 113 CIRBY OAKS II T-57
472-420-051-000	B	82.12	200.00	1.0	LOT 114 CIRBY OAKS II T-57
472-420-052-000	B	82.12	200.00	1.0	LOT 115 CIRBY OAKS II T-57
472-420-053-000	B	82.12	200.00	1.0	LOT 116 CIRBY OAKS II T-57
472-430-001-000	B	82.12	200.00	1.0	LOT 17 CIRBY OAKS II T-57
472-430-002-000	B	82.12	200.00	1.0	LOT 18 CIRBY OAKS II T-57
472-430-003-000	B	82.12	200.00	1.0	LOT 19 CIRBY OAKS II T-57
472-430-004-000	B	82.12	200.00	1.0	LOT 20 CIRBY OAKS II T-57
472-430-005-000	B	82.12	200.00	1.0	LOT 21 CIRBY OAKS II T-57
472-430-006-000	B	82.12	200.00	1.0	LOT 22 CIRBY OAKS II T-57
472-430-007-000	B	82.12	200.00	1.0	LOT 23 CIRBY OAKS II T-57
472-430-008-000	B	82.12	200.00	1.0	LOT 24 CIRBY OAKS II T-57
472-430-009-000	B	82.12	200.00	1.0	LOT 25 CIRBY OAKS II T-57
472-430-010-000	B	82.12	200.00	1.0	LOT 26 CIRBY OAKS II T-57
472-430-011-000	B	82.12	200.00	1.0	LOT 27 CIRBY OAKS II T-57
472-430-012-000	B	82.12	200.00	1.0	LOT 28 CIRBY OAKS II T-57
472-430-013-000	B	82.12	200.00	1.0	LOT 29 CIRBY OAKS II T-57
472-430-014-000	B	82.12	200.00	1.0	LOT 30 CIRBY OAKS II T-57
472-430-015-000	B	82.12	200.00	1.0	LOT 31 CIRBY OAKS II T-57
472-430-016-000	B	82.12	200.00	1.0	LOT 32 CIRBY OAKS II T-57
472-430-017-000	B	82.12	200.00	1.0	LOT 33 CIRBY OAKS II T-57
472-430-018-000	B	82.12	200.00	1.0	LOT 55 CIRBY OAKS II T-57
472-430-019-000	B	82.12	200.00	1.0	LOT 56 CIRBY OAKS II T-57
472-430-020-000	B	82.12	200.00	1.0	LOT 57 CIRBY OAKS II T-57
472-430-021-000	B	82.12	200.00	1.0	LOT 58 CIRBY OAKS II T-57

City of Roseville
Infill Area Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	ASSESSMENT	MAXIMUM ASSESSMENT	NO OF UNITS	LEGAL DESCRIPTION
472-430-022-000	B	82.12	200.00	1.0	LOT 59 CIRBY OAKS II T-57
472-430-023-000	B	82.12	200.00	1.0	LOT 60 CIRBY OAKS II T-57
472-430-024-000	B	82.12	200.00	1.0	LOT 61 CIRBY OAKS II T-57
472-430-025-000	B	82.12	200.00	1.0	LOT 62 CIRBY OAKS II T-57
472-430-026-000	B	82.12	200.00	1.0	LOT 63 CIRBY OAKS II T-57
472-430-027-000	B	82.12	200.00	1.0	LOT 64 CIRBY OAKS II T-57
472-430-028-000	B	82.12	200.00	1.0	LOT 65 CIRBY OAKS II T-57
472-430-029-000	B	82.12	200.00	1.0	LOT 66 CIRBY OAKS II T-57
472-430-030-000	B	82.12	200.00	1.0	LOT 67 CIRBY OAKS II T-57
472-430-031-000	B	82.12	200.00	1.0	LOT 68 CIRBY OAKS II T-57
472-430-032-000	B	82.12	200.00	1.0	LOT 69 CIRBY OAKS II T-57
472-430-033-000	B	82.12	200.00	1.0	LOT 70 CIRBY OAKS II T-57
472-430-034-000	B	82.12	200.00	1.0	LOT 71 CIRBY OAKS II T-57
472-430-035-000	B	82.12	200.00	1.0	LOT 72 CIRBY OAKS II T-57
472-430-036-000	B	82.12	200.00	1.0	LOT 73 CIRBY OAKS II T-57
472-430-037-000	B	82.12	200.00	1.0	LOT 74 CIRBY OAKS II T-57
472-430-038-000	B	82.12	200.00	1.0	LOT 75 CIRBY OAKS II T-57
472-430-039-000	B	82.12	200.00	1.0	LOT 76 CIRBY OAKS II T-57
472-430-040-000	B	82.12	200.00	1.0	LOT 77 CIRBY OAKS II T-57
472-430-041-000	B	82.12	200.00	1.0	LOT 78 CIRBY OAKS II T-57
472-430-042-000	B	82.12	200.00	1.0	LOT 79 CIRBY OAKS II T-57
472-430-043-000	B	82.12	200.00	1.0	LOT 80 CIRBY OAKS II T-57
472-430-044-000	B	82.12	200.00	1.0	LOT 81 CIRBY OAKS II T-57
472-430-045-000	B	82.12	200.00	1.0	LOT 82 CIRBY OAKS II T-57
472-430-046-000	B	82.12	200.00	1.0	LOT 83 CIRBY OAKS II T-57
472-430-047-000	B	82.12	200.00	1.0	LOT 84 CIRBY OAKS II T-57
472-430-048-000	B	82.12	200.00	1.0	LOT 85 CIRBY OAKS II T-57
472-430-049-000	B	82.12	200.00	1.0	LOT 86 CIRBY OAKS II T-57
472-430-050-000	B	82.12	200.00	1.0	LOT 87 CIRBY OAKS II T-57
472-430-051-000	B	82.12	200.00	1.0	LOT 88 CIRBY OAKS II T-57
472-430-052-000	B	82.12	200.00	1.0	LOT 89 CIRBY OAKS II T-57
472-430-053-000	B	82.12	200.00	1.0	LOT 90 CIRBY OAKS II T-57
472-430-054-000	B	82.12	200.00	1.0	LOT 91 CIRBY OAKS II T-57
472-430-055-000	B	82.12	200.00	1.0	LOT 92 CIRBY OAKS II T-57
472-430-056-000	B	82.12	200.00	1.0	LOT 93 CIRBY OAKS II T-57
472-430-057-000	B	82.12	200.00	1.0	LOT 94 CIRBY OAKS II T-57
472-430-058-000	B	82.12	200.00	1.0	LOT 95 CIRBY OAKS II T-57
472-430-059-000	B	82.12	200.00	1.0	LOT 96 CIRBY OAKS II T-57
472-430-060-000	B	82.12	200.00	1.0	LOT 97 CIRBY OAKS II T-57
472-430-061-000	B	82.12	200.00	1.0	LOT 98 CIRBY OAKS II T-57
472-430-062-000	B	82.12	200.00	1.0	LOT 99 CIRBY OAKS II T-57
472-430-063-000	B	82.12	200.00	1.0	LOT 100 CIRBY OAKS II T-57

Summary Fields	Zone A	Zone B	Zone C	Total
ACTIVE PARCELS	40	116	66	222
LEVIED PARCELS	40	116	66	222
CHARGE	7,732.80	9,525.92	13,200.00	30,458.72
MAXIMUM ASSESSMENT	7,732.80	23,200.00	13,200.00	44,132.80
NO OF UNITS	40	116	66	222

RESOLUTION NO. 20-147

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ENGINEER'S LEVY OF ASSESSMENTS FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE

The City Council of the City of Roseville, California (hereafter referred to as the "City Council") does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Johnson Ranch Landscaping and Lighting District (hereafter referred to as the "District") pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the "Act"), that provides for levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of street lighting, landscaping, and all appurtenant facilities and operations related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter "Engineer") for the purpose of assisting with the establishment of the assessments, the annexation of territory, and to prepare and file an Engineer's Annual Levy Report (hereinafter referred to as the "Engineer's Report") with the City Clerk in accordance with the act, and in accordance with the California Constitution, Articles XIII C and XIII D;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 Engineer's Report: The City Council hereby orders Willdan Financial Services to prepare the Engineer's Report concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22622* of the Act.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: certain landscaping and open space areas, including floodway and stream course areas within the open space and all appurtenant facilities related thereto within the District. The Engineer's Report describes all new improvements or substantial changes in existing improvements.

RESOLUTION NO. 20-147

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-148

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Johnson Ranch Landscaping and Lighting District (hereafter referred to as the “District”), and initiated proceedings for Fiscal Year 2020/2021, pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”) that provides for the levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of all improvements and facilities related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services for the purpose of assisting with the Annual Levy of the District, and to prepare and file a report with the City Clerk in accordance with the Act; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, PURSUANT TO CHAPTER 3, SECTION 22624 OF THE ACT, AS FOLLOWS:

Section 1 Intention: The City Council hereby declares that it is its intention to seek the Annual Levy of the District pursuant to the Act, over and including the land within the District boundary, and to levy and collect assessments on all such land to pay the annual costs of the improvements.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: certain landscaping and open space areas, including floodway and stream course areas within the open space and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

Section 3 Boundaries and Designation: The boundaries of the District are described as the boundaries previously defined in the formation documents of the original District. The District generally includes the parcels within the area known as the Southeast Roseville Specific Plan. The District is known and designated as

“Johnson Ranch Landscaping and Lighting District”

Section 4 Proposed Assessment Amounts: The proposed assessments are outlined in the Engineer’s Annual Levy Report. District Assessments are calculated in accordance with the method of apportionment established for the District and do not exceed the assessment rates and applicable annual inflationary adjustment previously authorized by City Council and approved by the property owners in accordance with the provisions of the California State Constitution, Article XIID.

Section 5 Public Hearing(s): The City Council hereby declares its intention to conduct a Public Hearing annually concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22626* of the Act.

Section 6 Notice: The City Clerk shall give notice of the time and place of the Public Hearing by causing the publishing of this Resolution once in a local newspaper not less than ten (10) days before the date of the hearing and by posting a copy of this Resolution on the official bulletin board customarily used by the City Council for the posting of notices.

Section 7 Time and Place of Public Hearing: Notice is hereby given that a Public Hearing on these matters will be held by the City Council on **Wednesday, May 20, 2020 at 6:00 p.m.**, or as soon thereafter as feasible in the regular meeting chambers located at 311 Vernon Street, Roseville, California.

RESOLUTION NO. 20-148

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-149

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ANNUAL LEVY REPORT FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, the City Council has, by previous Resolutions, ordered the preparation of an Annual Levy Report (hereafter referred to as the “Report”) for the district known and designated as the Johnson Ranch Landscaping and Lighting District (hereafter referred to as the “District”), pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereinafter referred to as the “Act”); and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter “Engineer”), for the purpose of assisting with the establishment of the assessments and to prepare and file an Engineer’s Annual Levy Report (hereafter referred to as the “Engineer’s Report”) with the City Clerk in accordance with the Act, and in accordance with the requirements of the California Constitution, Articles XIII C and XIII D; and,

WHEREAS, there has now been presented to this City Council the Engineer’s Report as required by *Chapter 1, Article 4, Section 22566* of said Act; and,

WHEREAS, this City Council has carefully examined and reviewed the Engineer’s Report as presented, and is preliminarily satisfied with the District, each and all of the budget items and documents as set forth therein, and is satisfied that the assessments, on a preliminary basis, have been spread in accordance with the benefits received from the improvements, operation, maintenance and services to be performed within each Zone, as set forth in said Report; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 That the above recitals are all true and correct.

Section 2 That the Engineer’s Report as presented, consists of the following:

- a. A Description of Improvements
- b. The Annual Budget (Costs and Expenses of Maintenance, Services, Operations and District Administration)
- c. The Assessment Roll containing the Fiscal Year 2020/2021 Levy for each Assessor Parcel within the District

Section 3 The Engineer's Report is hereby approved on a preliminary basis, and ordered to be filed in the Office of the City Clerk as a permanent record and to remain open to public inspection.

Section 4 That the City Clerk shall certify to the passage and adoption of this Resolution, and the minutes of this meeting shall so reflect the presentation of the Engineer's Report.

RESOLUTION NO. 20-149

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville



City of Roseville

Johnson Ranch

Landscaping and Lighting District

2020/21 ENGINEER'S ANNUAL LEVY REPORT

Intent Meeting: May 6, 2020
Public Hearing: May 20, 2020

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Suite 200
Temecula, CA 92590
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www.willdan.com



ENGINEER'S REPORT AFFIDAVIT

Establishment of Annual Rates and Charges for the:

Johnson Ranch
Landscaping and Lighting District

City of Roseville
Placer County, State of California

This Report describes the District and any relevant zones therein, including the improvements, budgets, parcels and assessments to be levied for Fiscal Year 2020/21 as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Placer County Assessor's maps for a detailed description of the lines and dimensions of parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the City Council.

Dated this 15th day of APRIL, 2020

Willdan Financial Services
Assessment Engineer
On Behalf of the City of Roseville

By: Mickey Ashley

Mickey Ashley
Senior Project Analyst
District Administration Services

By: Richard Kopecky

Richard Kopecky
R. C. E. # 16742



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I. OVERVIEW

A. INTRODUCTION

The City of Roseville (“City”) annually levies and collects special assessments in order to maintain the improvements in the southeast section of the City of Roseville, known as Johnson Ranch Landscaping and Lighting District (“District”). The District was formed and is levied annual assessments pursuant to the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the California Streets and Highways Code (the “Act”).

The Engineer’s Report (“Report”) describes the District, any new annexations, changes to the District, and the proposed assessments for the period of July 1, 2020 through June 30, 2021. The special benefit assessments are based on historical and estimated costs to maintain the District improvements. These assessments, which provide a direct and special benefit to properties within the District, will provide funding for the operation and maintenance of District improvements.

The District consists of five (5) zones of benefit, Zones A, B, C, D and E (individually the “Zone” and collectively the “Zones”). The improvements that benefit properties within each Zone and the costs to maintain and service those improvements are identified and budgeted separately by Zone. The total cost of landscape maintenance within a Zone is equitably spread among only the benefiting parcels.

The word “parcel,” for the purposes of this Report, refers to an individual property assigned its own Assessor’s Parcel Number (“APN”) by the Placer County Assessor’s Office. The Placer County Auditor/Controller uses Assessor’s Parcel Numbers and specific Tax Code Accounts, to identify on the County’s tax roll, properties assessed for special district benefit assessments.

Following approval of the Report, the City Council will by resolution, order the improvements to be made, if any, and confirm the levy and collection of assessments pursuant to the Act. The assessment rates and method of apportionment described in this Report as approved or modified by the City Council defines the assessments to be applied to each parcel within the District and respective Zones for Fiscal Year (“FY”) 2020/21. The assessments as approved will be submitted to the Placer County Auditor/Controller to be included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rates approved by the City Council.

B. COMPLIANCE WITH CURRENT LEGISLATION

All assessments described in this Report and approved by the City Council are prepared in accordance with the Act and are in compliance with the substantive and procedural requirements of the California State Constitution Articles XIIC and XIID (“Articles XIIC and XIID”) and the provisions of the Proposition 218 Omnibus Implementation Act [Government Code Section 53750 and following] (the “Implementation Act”). Articles XIIC and XIID and the Implementation Act collectively are hereinafter referred to as “Proposition 218”.

Pursuant to the California Constitution Article XIID, Section 5, certain existing assessments are exempt from the substantive and procedural requirements of Article XIID Section 4 and property owner balloting for the assessments is not required until such time that the assessments are increased. Specifically, the City determined that all improvements and the annual assessments originally established for the District were part of the conditions of property development and approved by the original property owner (developer). As such, pursuant to Article XIID Section 5(b), all the property owners approved the existing District assessments at the time the assessments were created (originally imposed pursuant to a 100% landowner petition). Therefore, the pre-existing assessment amounts (the maximum assessment rates of Zones A, B, C & D identified in this Report) are exempt from the procedural requirements of Article XIID Section 4, provided the assessments are not increased above these previously approved maximum assessment rates.

In Fiscal Year 1999/00, the City initiated and conducted property owner protest ballot proceedings in accordance with Article XIID for Zone E in order to increase the assessment to cover additional costs for services. The proposed assessment increase presented to property owners included an annual inflationary factor of 3%. In Fiscal Year 1999/00 the maximum assessment rate was \$623.10 per acre. At the conclusion of the Public Hearing, all property owner ballots returned were tabulated and the City determine that a majority protest did not exist. The City Council then approved the increased assessment and the inflationary factor for maintaining the improvements within the District.

The District and all Zones therein have been formed pursuant to the Act. Pursuant to the Act, an annual Public Hearing is conducted by the City Council to accept property owner and public comments, to review the Engineer's Annual Levy Report prior to approving the annual assessments to be levied on the County tax rolls. The assessments described in this Report have been prepared in accordance with the Act.

C. DISTRICT BOUNDARIES

The District lies within a portion of the Southeast Roseville Specific Plan, which is located in the southeast section of the City of Roseville. The District is generally located east of I-80 on the south side of Douglas Boulevard. See Appendix A for a rendering of the District boundary map.

D. IMPROVEMENTS AUTHORIZED BY THE 1972 ACT

As applicable or may be applicable to a proposed District, the 1972 Act defines improvements to mean one or any combination of the following:

- The installation or planting of landscaping.
- The installation or construction of statuary, fountains, and other ornamental structures and facilities.
- The installation or construction of public lighting facilities.
- The installation or construction of any facilities which are appurtenant to any of the foregoing or which are necessary or convenient for the maintenance or servicing thereof, including, but not limited to, grading, clearing, removal of debris, the installation or construction of curbs, gutters, walls, sidewalks, or paving, or water, irrigation, drainage, or electrical facilities.
- The maintenance or servicing, or both, of any of the foregoing.
- The acquisition of any existing improvement otherwise authorized pursuant to this section.

Incidental expenses associated with the improvements including, but not limited to:

- The cost of preparation of the report, including plans, specifications, estimates, diagram, and assessment;
- The costs of printing, advertising, and the publishing, posting and mailing of notices;
- Compensation payable to the County for collection of assessments;
- Compensation of any engineer or attorney employed to render services;

- Any other expenses incidental to the construction, installation, or maintenance and servicing of the improvements;
- Any expenses incidental to the issuance of bonds or notes pursuant to Section 22662.5.
- Costs associated with any elections held for the approval of a new or increased assessment.

The 1972 Act defines "Maintain" or "maintenance" to mean furnishing of services and materials for the ordinary and usual maintenance, operation, and servicing of any improvement, including:

- Repair, removal, or replacement of all or any part of any improvement.
- Providing for the life, growth, health, and beauty of landscaping, including cultivation, irrigation, trimming, spraying, fertilizing, or treating for disease or injury.
- The removal of trimmings, rubbish, debris, and other solid waste.
- The cleaning, sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Furthermore, the 1972 Act specifies that where the cost of improvements (other than maintenance and operations) is greater than can be conveniently raised from a single annual assessment, an assessment to be levied and collected in annual installments. In that event, the governing body may choose to do any of the following:

- Provide for the accumulation of the moneys in an improvement fund until there are sufficient moneys to pay all or part of the cost of the improvements.
- Provide for a temporary advance to the improvement fund from any available and unencumbered funds of the local agency to pay all or part of the cost of the improvements and collect those advanced moneys from the annual installments collected through the assessments.
- Borrow an amount necessary to finance the estimated cost of the proposed improvements. The amount borrowed, including amounts for bonds issued to finance the estimated cost of the proposed improvements.

E. DESCRIPTION OF THE IMPROVEMENTS AND BENEFITS

Zones A, B and C

Zones A, B and C of the District, by special benefit assessments, provide annual funding for the continual maintenance of certain landscaping, open space areas; including floodway and stream course areas as well as any the maintenance of bike trails. The specific locations of the floodways, stream courses and areas adjacent thereto to be maintained are described below:

- Parcel 70 - Floodway that feeds Cirby Creek and is located between Douglas Boulevard and Eureka Road. (7.76 acres) - Zone C
- Parcel 71 - Strap Ravine floodway between Douglas Boulevard and East Roseville Parkway. (3.38 acres) - Zone A
- Parcel 72 - Floodway between Roseville Parkway east to commercial development. (8.98 acres) - Zone C
- Parcel 73 - Recreational floodway in Strap Ravine between East Roseville Parkway and Sierra College Boulevard. (16.11 acres) - Zone A
- Parcels 74 & 75 - Recreational floodway that eventually feeds Linda Creek, beginning at Sierra College Boulevard then east to the Roseville City limits. (6.2 acres and 10.8 acres, respectively) - Zone B

Zone D

Zone D of the District, by special benefit assessments, provides annual funding for the costs of mitigation monitoring and costs to maintain landscaped open space areas within certain wetland / riparian area(s) to comply with a Section 404 Permit. The issuance of this Section 404 permit was a condition of the development of the Johnson Ranch East Project, which represents the parcels comprising Zone D.

Zone E

Zone E of the District, by special benefit assessments, provides annual funding for the maintenance of certain landscaping, bike trails and open space areas that include floodway and stream course areas and the costs of mitigation monitoring to comply with both a Section 404 Permit (Federal) and a 1603 Permit (State). The issuance of these permits was a condition of the development of Parcel 9. The specific locations of the floodway and stream courses to be maintained are described as:

- Parcel 76 - Streambed and floodway area located at Cirby Creek from the southwest side of Eureka Boulevard to the end of the Coker Development. (2.79 acres)

II. METHOD OF APPORTIONMENT

A. GENERAL

The Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements which include the construction, maintenance and servicing of public lights, landscaping and appurtenant facilities. The Act further requires that the cost of these improvements be levied according to benefit rather than assessed value:

“The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements.”

The formula used for calculating assessments in each Zone of the District therefore reflects the composition of the parcels, and the improvements and services provided, to fairly apportion the costs based on estimated benefit to each parcel.

B. PROPOSITION 218 BENEFIT ANALYSIS

In conjunction with the provisions of the 1972 Act, the California Constitution Article XIID addresses several key criteria for the levy of assessments regarding Zone E, notably:

Article XIID Section 2d defines District as follows:

“District means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service”;

Article XIID Section 2i defines Special Benefit as follows:

“Special benefit” means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute “special benefit.”

Article XIID Section 4a defines proportional special benefit assessments as follows:

“An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public

improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.”

The method of apportionment (method of assessment) set forth in the Report is based on the premise that each assessed property receives special benefits from the improvements within the District, and the assessment obligation for each parcel reflects that parcel’s proportional special benefits as compared to other properties that receive special benefits.

C. DESCRIPTION OF METHOD OF APPORTIONMENT

Pursuant to the Act, the costs of the District must be spread to each parcel based upon a benefit formula. Each assessable parcel in the District receives a direct and special benefit from the improvements in the District. The formula used to arrive at each parcel’s annual levy amount in each zone is as follows:

Zones A and B

Thirty percent (30%) of the total budgeted costs of Zones A & B are to be levied to floodway Parcel 82 (APN 458-020-001). The remaining Seventy percent (70%) of costs are then allocated equally on a per acre basis to all assessable parcels within these Zones. Acreage of common area parcels shall be apportioned to the remaining assessable parcels of a subdivision and/or parcel split(s) related to the creation of the common area parcel(s).

Zones C, D and E

The budgeted costs of Zones C, D and E are to be allocated equally on a per acre basis to all assessable parcels within each respective Zone. Acreage of common area parcels shall be apportioned to the remaining assessable parcels of a subdivision and/or parcel split(s) related to the creation of the common area parcel(s).

D. INFLATIONARY ADJUSTMENT FACTOR

For Zone E only, if the proposed assessment rate increases over the prior fiscal year’s maximum assessment rate by a percentage no greater than the 3%, then the proposed assessment rate is not considered an increase.

III. DISTRICT BUDGET

A. 2020/21 BUDGET

DESCRIPTION	ZONE A ⁽¹⁾ Fund 2001	ZONE B ⁽¹⁾ Fund 2002	ZONE C Fund 2003	ZONE D Fund 2004	ZONE E Fund 2005
<u>DIRECT COSTS</u>					
Contract Maintenance - Open Space (2521-4801-10001)	\$12,224.00	\$6,712.00	\$4,223.00	\$122.00	\$7,020.00
Repair & Maintenance - Landscaping	-	-	-	-	-
Utilities	500.00	-	-	-	-
Maintenance - Bike Trails (3380-4801-10001)	n/a	3,000.00	2,500.00	n/a	1,136.00
Rehab Reserve Project Expenditures	-	-	-	-	-
Total Direct Costs	\$12,724.00	\$9,712.00	\$6,723.00	\$122.00	\$8,156.00
<u>ADMINISTRATION COSTS</u>					
City Administration	\$336.00	\$231.00	\$181.00	\$7.00	\$168.00
Contract Administration- Park's Dept	150.00	36.00	100.00	36.00	116.00
Contract Administration - Open Space	1,350.00	36.00	780.00	36.00	906.00
County Auditor Fees	167.55	115.57	90.08	3.24	108.91
Consulting & Professional Services	1,893.00	1,303.00	1,018.00	37.00	946.00
Consultant Incidental Expenses	56.43	38.93	30.34	1.09	53.21
Public Hearing Publishing Costs	245.00	200.00	175.00	85.00	210.00
Total Administrative Costs	\$4,197.98	\$1,960.50	\$2,374.42	\$205.33	\$2,508.12
Total Direct and Administration Costs	\$16,921.98	\$11,672.50	\$9,097.42	\$327.33	\$10,664.12
<u>BUDGET ADJUSTMENTS</u>					
Replenishment/(Use) of Operating Reserve	(\$166.96)	(\$115.18)	(\$89.58)	(\$2.93)	\$227.14
Contribution for /(Use of) Rehab Reserve	0.00	0.00	0.00	0.00	0.00
Rounding Adjustment	(0.60)	(0.40)	0.00	0.00	(4.24)
BALANCE TO LEVY	\$16,754.42	\$11,556.92	\$9,007.84	\$324.40	\$10,887.02

Parcel 82 Levy Recap ⁽¹⁾	ZONE A ⁽¹⁾ Fund 2001	ZONE B ⁽¹⁾ Fund 2002
Non-Parcel 82 Levy (70% of Costs)	\$11,728.10	\$8,089.84
Parcel 82 Levy - 458-020-001 (30% of Total Costs)	5,026.32	3,467.08
Total Assessment	\$16,754.42	\$11,556.92

(1) Thirty percent (30%) of the total budgeted costs of Zones A & B are to be levied to floodway Parcel 82 (APN 458-020-001). 70% of costs are to be assessed to the remaining parcels. See "Parcel 82 Levy Recap" above for calculation.

Fund balance information of each Zone is reported in Section C on the following page.

B. 2020/21 ASSESSMENT RATES

DESCRIPTION	ZONE A ⁽¹⁾ Fund 2001	ZONE B ⁽¹⁾ Fund 2002	ZONE C Fund 2003	ZONE D Fund 2004	ZONE E Fund 2005
<u>FY 2020/21 ASSESSMENT RATES</u>					
Number of Assessable Parcels	194	812	174	505	4
Total Assessable Acres	101.5984	227.5064	132.6061	140.9012	13.6282
Applied Assessment Rates:					
Per Acre - Zones C, D & E			\$67.9293	\$2.3023	\$798.8595
Per Acre - Non-Parcel 82 Parcels (70% of costs) ⁽⁴⁾	\$115.4358	\$35.5587			
Parcel 82 Only (30% of Costs) ⁽⁴⁾	\$5,026.32	\$3,467.08			
Maximum Assessment Rates:					
Per Acre - Zones C, D & E			\$67.9293	\$2.3023	\$1,159.1495
Per Acre - Non-Parcel 82 Properties	\$115.4399	\$35.5600			
Parcel 82 Only	\$5,026.51	\$3,467.20			
Potential Maximum Assessment	\$16,755.02	\$11,557.32	\$9,007.84	\$324.40	\$15,797.12

(1) Thirty percent (30%) of the total budgeted costs of Zones A & B are to be levied to floodway Parcel 82 (APN 458-020-001). 70% of costs are to be assessed to the remaining parcels. See "Parcel 82 Levy Recap" above for calculation.

C. 2020/21 FUND BALANCE INFORMATION

DESCRIPTION	ZONE A Fund 2001	ZONE B Fund 2002	ZONE C Fund 2003	ZONE D Fund 2004	ZONE E Fund 2005
<u>OPERATING RESERVE</u>					
Beginning Operating Reserve Balance 7-1-2020 (est.)	\$7,300.22	\$4,879.34	\$4,227.62	\$149.42	\$3,828.43
add: Replenishment from FY 20/21 Levy	0.00	0.00	0.00	0.00	227.14
less: Use for FY 20/21 Expenses	(166.96)	(115.18)	(89.58)	(2.93)	0.00
Transfer from/(to) the Rehab Reserve	(771.26)	91.84	(776.54)	(85.49)	22.43
Ending Operating Reserve Balance 6-30-2021 (est.)	\$6,362.00	\$4,856.00	\$3,361.50	\$61.00	\$4,078.00
<u>REHABILITATION RESERVE</u>					
Beginning Rehab Reserve Balance 7-1-2020 (est.)	\$0.00	\$322.79	\$0.00	\$22.96	\$22.43
add: Collect from FY 20/21 Levy					
less: Use for FY 20/21 Rehab Projects	0.00	0.00	0.00	0.00	0.00
Transfer from/(to) the Operating Reserve	771.26	(91.84)	776.54	85.49	(22.43)
Ending Rehab Reserve Balance 6-30-2021 (est.)	\$771.26	\$230.95	\$776.54	\$108.45	\$0.00

D. DESCRIPTION OF BUDGET ITEMS

Description of the terms used in the preceding Budget, Assessment Rates and Fund Balance tables are listed below:

BUDGET:

DIRECT COSTS

Contract Maintenance - Open Space – Includes all regularly scheduled contract labor, materials, supplies and equipment required to properly maintain and ensure the satisfactory condition of all open space landscaping, irrigation, drainage systems, lighting, floodplain improvements and appurtenant facilities (the “improvements”).

Mitigation Monitoring – Costs associated with monitoring certain impacts to riparian areas in or near the District under the terms of a Section 404 or 1603 permit. If zero, this line item will not be shown in the budget.

Utilities - The furnishing of water and electricity required for the operation and maintenance of the improvements. If zero, this line item will not be shown in the budget.

Maintenance - Bike Trails - Costs associated with the resurfacing of the Bike trail. If zero, this line item will not be shown in the budget.

Water Hyacinth Eradication – Costs associated with the eradication of the Water Hyacinth plant in the creek beds. If zero, this line item will not be shown in the budget.

Rehab Reserve Project Expenditures – Expected costs for installation, replacement or planned upgrades of District improvements for the current year that were previously funded or accumulated in the Rehabilitation Reserve. The Rehabilitation Reserve is used to accumulate funds for costs associated with the future rehabilitation or replacement of District improvements that cannot be conveniently raised from a single year’s assessment. If zero, this line item may not be shown in the budget.

ADMINISTRATION COSTS

City Administration – Estimated costs incurred by the City Finance Department and other Departments in preparing the annual budget for the Engineer's Report, together with other financial information required to determine the annual assessment. These costs would also include the preparation, posting and publishing of public notices required for City Council action relating to the District, as well as costs to perform legal review of documents.

Contract Administration – Park's Dept – Estimated costs of Park and Recreation Department staff to coordinate and oversee the maintenance contracts and overall repair and maintenance of the District. This amount also includes the cost of the Department's estimates and analysis of certain budget items, estimated costs and useful lives of certain District Improvements.

Contract Administration – Open Space – Estimated costs of City staff to coordinate and oversee the maintenance contracts and non-contract maintenance of the open space areas of the District. This amount also includes the cost of the Department's estimates and analysis of certain budget items.

County Auditor Fees - A fee of 1% of the total levy amount that is charged to the District by the County for placing assessments on property tax bills.

Consulting and Professional Services – Includes the costs and expenses of contracting with various professionals to provide legal, engineering and district administration services directly related to the District, including the calculation of the annual assessment amounts and the preparation of the Engineer's' Report.

Public Hearing Publishing Costs –Includes the out of pocket costs to publish public notices required for City Council action relating to the District.

Total Direct and Administration Costs – The total expected costs of the District.

BUDGET ADJUSTMENTS

Replenishment/(Use) of Operating Reserve – A "Replenishment" increases the levy in order to replenish the Operating Reserve. On the other hand, a "Use" of the Operating Reserve decreases the levy by drawing funds from the Operating Reserve for current year expenditures. If zero, this line item may not be shown in the budget. Further information regarding the function of the Operating Reserve is provided under "FUND BALANCE INFORMATION" in the following pages of this Section.

Contribution for / (Use of) Rehab Reserve — A “Contribution” increases the levy in order to generate funding for the Rehabilitation Reserve. This reserve allows for the accumulation of funds for the possible rehabilitation projects or replacements in future years. On the other hand, a “Use of” of the Rehabilitation Reserve provides current year funding of rehabilitation projects or replacements from available funds within the Rehabilitation Reserve. If zero, this line item may not be shown in the budget. Further information regarding the function of the Rehabilitation Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Rounding Adjustment – The necessary rounding adjustment(s) due to limitations of the County property tax system that requires even penny levy amounts to be placed on the secured tax roll.

BALANCE TO LEVY - This is the total amount to be levied and collected through assessments for the current fiscal year for each Zone. The Balance to Levy represents the sum of the total District costs together with applicable adjustments related to the Reserve Fund replenishments or reductions and/or Capital Improvement Fund activity.

Parcel 82 Levy Recap – A recap of the cost breakdown between certain parcels. Thirty percent (30%) of the total budgeted costs of Zones A & B are to be levied to floodway Parcel 82 (APN 458-020-001). 70% of costs are to be assessed to the remaining parcels.

ASSESSMENT RATES:

APPLIED ASSESSMENT RATES

Number of Assessable Parcels - The total number of parcels within each Unit that are expected to be assessed. Non-assessable lots or parcels include government-owned land, public utility-owned property, land principally encumbered by public rights-of-way or easements, common areas, and/or parcels within the boundaries of the District that currently do not benefit from the improvements due possibly to development restrictions.

Total Assessable Acres – Non-Parcel 82 Properties - The total number of acres within the Zones A and B that are to be assessed on an acreage basis for the current fiscal year; this acreage excludes Parcel 82.

Applied Assessment Rates - The assessment rates to be applied to the non-exempt parcels within the District for the current fiscal year.

Maximum Assessment Rates - The maximum assessment rates for current fiscal year.

Maximum Potential Assessment – The total amount that is expected to be assessed against all parcels within the District for the Current Fiscal Year.

FUND BALANCE INFORMATION:

OPERATING RESERVE

Beginning Operating Reserve Balance 7-1-2020 (est.) - The anticipated beginning balance of cash and receivables net of any unpaid prior year obligations for each Zone. These beginning balances shall be used to fund each Zone's expenditures from July 1, 2020 to December 31, 2020, as the Operating Reserve is required to compensate for the approximate six-month delay between the start of the District's fiscal year and the receipt of the collections from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

Replenish from FY 20/21 Levy – This amount is added to the levy in order to replenish the Operating Reserve. Due to the six-month delay from the District's receipt of assessment collections, the Operating Reserve balance shall be sufficiently funded to provide for expenditures from the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Expenses – The amount of the Operating Reserve to be used to fund FY 20/21 expenses. Portions of the Operating Reserve may be slated for current year expenditures in order to reduce the Ending Operating Reserve Balance to an amount no greater than the expected District costs for the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Rehab Reserve — The amount of Operating Reserve monies to be transferred to or from the Rehabilitation Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Operating Reserve Balance 6-30-2021 (est.) - This amount represents the anticipated Operating Reserve balance/(deficit) for each Zone as of June 30, 2021. The size of each Zone's Operating Reserve is limited by Streets and Highways Code 22569 which states that an Operating Reserve shall not exceed the estimated costs of maintenance, service and incidental expenses from the first day of the fiscal year (July 1) to the date that the Agency expects to receive the first apportionment of collections from the County, which is estimated to be December 31. Therefore, each Zone may retain an Operating Reserve amounting to the District's first six-months of expenses in order to meet ongoing obligations until the first collections are received from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

REHABILITATION RESERVE

Beginning Rehab Reserve Balance 7-1-2020 (est.) — The projected balance of funds in the Rehabilitation Reserve as of July 1, 2020. Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

Collect from FY 20/21 Levy — This amount is added to the levy to accumulate funding of future year rehabilitation projects, replacements, restorations or upgrades of District improvements. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Rehab Projects – The amount of Rehabilitation Reserve monies expected to be transferred out of the Rehabilitation Reserve to fund the costs of installation, replacement or planned upgrades of District improvements for the current year. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Operating Reserve — The amount of Rehabilitation Reserve monies to be transferred to or from the Operating Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same Zone's Operating Reserve, at the discretion of the Parks and Recreation Department, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Rehab Reserve Balance 6-30-2021 (est.) - The projected balance of funds in the Rehabilitation Reserve as of June 30, 2021. These funds shall be used to provide for future year rehabilitation projects, replacements, restorations or upgrades of District improvements which cannot be conveniently raised from a single year's assessment.

E. REHABILITATION RESERVE – CAPITAL IMPROVEMENT PLAN

Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

For each Zone showing a projected ending Rehabilitation Reserve balance or projected FY 2020/21 expenditures for Rehabilitation Reserve Project, a five-year Capital Improvement Plan showing the projected expenditures related to the rehabilitation, restoration and/or replacement of District improvements and other allowable costs, is shown below.

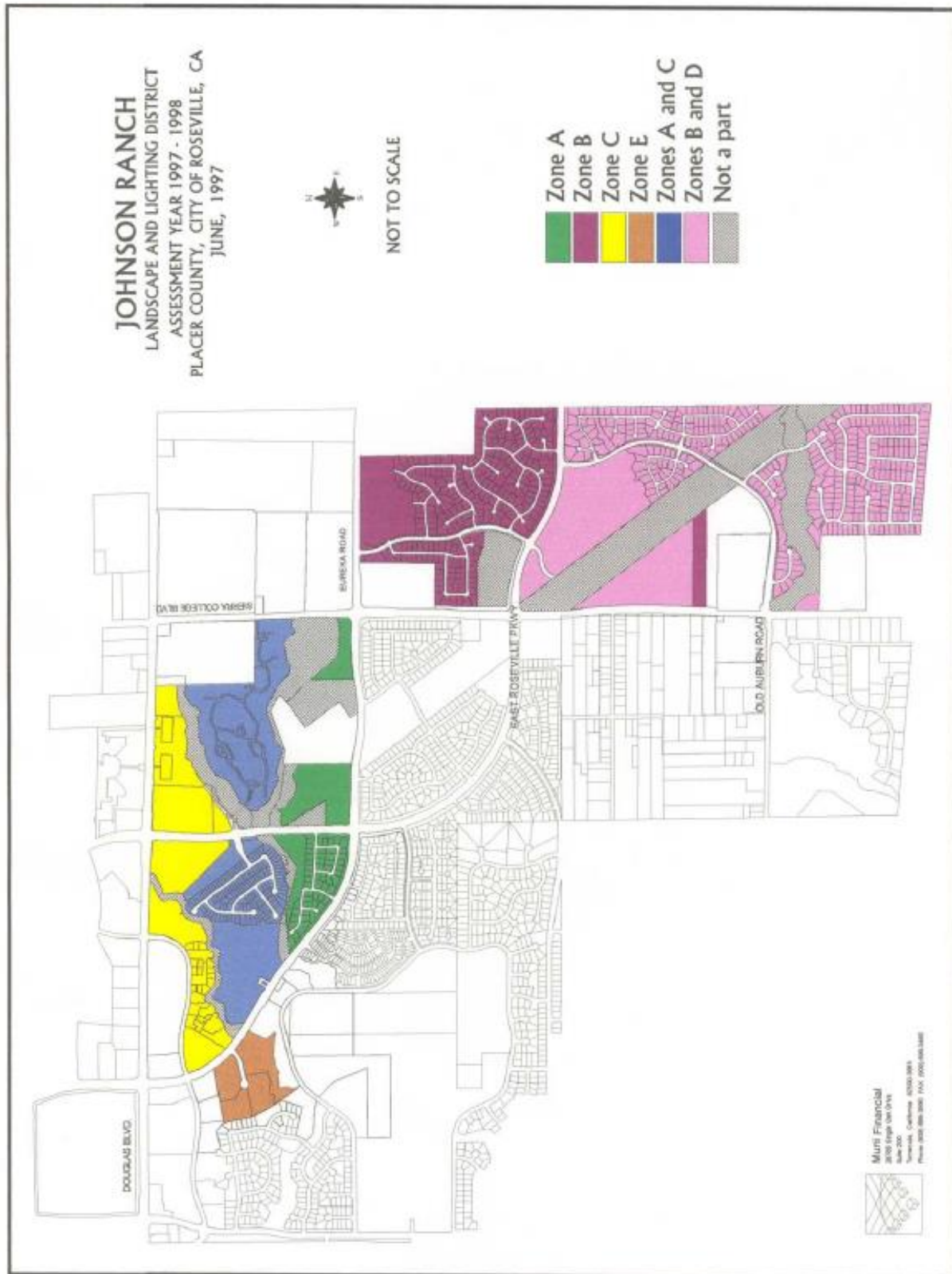
Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
General open space, creek rehab - Zone A	\$0	\$800	\$0	\$0	\$0	\$800
General open space, creek rehab - Zone B	\$0	\$250	\$0	\$0	\$0	\$250
General open space, creek rehab - Zone C	\$0	\$800	\$0	\$0	\$0	\$800
General open space, creek rehab - Zone D	\$0	\$150	\$0	\$0	\$0	\$150
General open space, creek rehab - Zone E	\$0	\$0	\$0	\$0	\$0	\$0
Total Projected Expenditures	\$0	\$2,000	\$0	\$0	\$0	\$2,000

Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the District or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same Zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements.

APPENDIX A – DISTRICT BOUNDARY MAP

The Assessment Diagrams for the District have previously been submitted to the Clerk of the City in the format required under the Act and are, by reference, made part of this Report. The boundary maps are available for inspection at the office of the City Clerk during normal business hours.

For general reference purposes, a one-page rendering of the District's Boundaries is presented herein.



APPENDIX B — 2020/21 ASSESSMENT ROLL

Parcel identification, for each lot or parcel within the District, shall be the parcel as shown on the Placer County Assessor's map for the year in which this Report is prepared.

A listing of parcels to be assessed within this District, along with the proposed assessment amounts, may be submitted to the City Clerk, under a separate cover, and by reference is made part of this Report.

Non-assessable lots or parcels may include areas of public streets and other roadways (typically not assigned an APN by the County); dedicated public easements, open space areas and rights-of-ways, including public greenbelts and parkways; utility rights-of-ways; small parcels vacated by the County, bifurcated lots, and other property that cannot be developed, excepting common area parcels. These types of parcels are considered to receive little or no benefit from the improvements and are therefore exempted from assessment.

At the conclusion of the public hearing for the District and the proposed assessments, approval of the Report (as submitted or as modified) confirms the method of apportionment and the assessment rate to be levied against each eligible parcel and thereby constitutes the approved levy and collection of assessments for FY 2020/21. The listing of parcels and the amount of assessment to be levied shall be submitted to the County Auditor/Controller and included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved in this Report. Therefore, if a single parcel has changed to multiple parcels, the assessment amount applied to each of the new parcels shall be recalculated and applied according to the approved method of apportionment and assessment rate rather than a proportionate share of the original assessment.

City of Roseville
Johnson Ranch Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
048-160-030-000	Assessable	7,089.04	7,089.05	38.66	0.0	38.66	0.0	0.0	38.7AL29JOHNSONRANCH N CENP100
048-160-032-000	Assessable	499.84	499.85	4.33	0.0	0.0	0.0	0.0	4.3ACL32JOHNSONRANCH N CENP100
048-160-036-000	Assessable	1,365.64	1,365.65	11.83	0.0	0.0	0.0	0.0	12.0AC POR L1 JOHNSON RANCH #3
048-160-040-000	Assessable	178.64	178.65	0.0	0.0	2.63	0.0	0.0	2.6 AC L30C JOHNSON RANCH N C
048-160-041-000	Assessable	76.08	76.08	0.0	0.0	1.12	0.0	0.0	1.1 AC PAR 1 PMOR 26-126
048-160-042-000	Assessable	76.08	76.08	0.0	0.0	1.12	0.0	0.0	1.1 AC PAR 2 PMOR 26-126
048-160-043-000	Assessable	506.06	506.07	0.0	0.0	7.45	0.0	0.0	7.5 AC PAR 3 PMOR 26-126
048-160-045-000	Assessable	170.50	170.50	0.0	0.0	2.51	0.0	0.0	2.5 AC PAR 2 PMOR 28-26
048-160-046-000	Assessable	211.74	211.74	0.0	0.0	3.117	0.0	0.0	PARCEL 1 PMOR 29-10
048-160-047-000	Assessable	315.02	315.02	0.0	0.0	4.6374	0.0	0.0	PARCEL 2 PMOR 29-10
048-160-048-000	Assessable	356.32	356.33	0.0	0.0	5.2456	0.0	0.0	PARCEL 3 PMOR 29-10
048-160-049-000	Common Area	-	-	0.0	0.0	0.0	0.0	0.0	8.8 AC PARCEL 4 PMOR 29-10
048-171-045-000	Assessable	739.06	739.07	0.0	0.0	10.88	0.0	0.0	10.9 AC L 21 SOUTHFORK Q-14
048-171-053-000	Assessable	3,509.68	3,509.69	19.14	0.0	19.14	0.0	0.0	19.6 AC LOT 8A & POR LOT 8B SOUTHFORK Q-14
457-070-001-000	Assessable	2,297.38	3,332.21	0.0	0.0	0.0	0.0	2.8747	2.7 AC PAR 9A PMOR 28-110
457-070-002-000	Assessable	2,978.10	4,319.57	0.0	0.0	0.0	0.0	3.7265	3.5 AC PAR 9B PMOR 28-110
457-070-003-000	Assessable	2,807.88	4,072.67	0.0	0.0	0.0	0.0	3.5135	3.3 AC PAR 9C PMOR 28-110
457-070-004-000	Assessable	2,807.88	4,072.67	0.0	0.0	0.0	0.0	3.5135	3.3 AC PAR 9D PMOR 28-110
458-010-001-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 1 BROADSTONE PLACE Q-11
458-010-002-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	L 2 BROADSTONE PLACE Q-11
458-010-003-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	L 3 BROADSTONE PLACE Q-11
458-010-004-000	Assessable	26.74	26.75	0.2317	0.0	0.0	0.0	0.0	L 4 BROADSTONE PLACE Q-11
458-010-005-000	Assessable	39.44	39.45	0.3417	0.0	0.0	0.0	0.0	LOT 5 BROADSTONE PLACE MOR BK Q PG 11
458-010-006-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	LOT 6 BROADSTONE PLACE MOR BK Q PG 11
458-010-007-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 7 BROADSTONE PLACE Q-11
458-010-008-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 8 BROADSTONE PLACE Q-11
458-010-009-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 9 BROADSTONE PLACE Q-11
458-010-010-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	LOT 10 BROADSTONE PLACE MOR BK Q PG 11
458-010-011-000	Assessable	35.98	35.98	0.3117	0.0	0.0	0.0	0.0	L 11 BROADSTONE PLACE Q-11
458-010-012-000	Assessable	27.90	27.90	0.2417	0.0	0.0	0.0	0.0	L 12 BROADSTONE PLACE Q-11
458-010-013-000	Assessable	25.58	25.59	0.2217	0.0	0.0	0.0	0.0	L 13 BROADSTONE PLACE Q-11
458-010-014-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 14 BROADSTONE PLACE Q-11
458-010-015-000	Assessable	32.52	32.52	0.2817	0.0	0.0	0.0	0.0	L 15 BROADSTONE PLACE Q-11
458-010-016-000	Assessable	30.20	30.21	0.2617	0.0	0.0	0.0	0.0	L 16 BROADSTONE PLACE Q-11
458-010-017-000	Assessable	31.36	31.37	0.2717	0.0	0.0	0.0	0.0	L 17 BROADSTONE PLACE Q-11
458-010-018-000	Assessable	25.58	25.59	0.2217	0.0	0.0	0.0	0.0	L 18 BROADSTONE PLACE Q-11
458-010-019-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	LOT 19 BROADSTONE PLACE MOR Q-11
458-010-020-000	Assessable	25.58	25.59	0.2217	0.0	0.0	0.0	0.0	L 20 BROADSTONE PLACE Q-11
458-010-021-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 21 BROADSTONE PLACE Q-11
458-010-022-000	Assessable	25.58	25.59	0.2217	0.0	0.0	0.0	0.0	LOT 22 BROADSTONE PLACE MOR Q-11
458-010-023-000	Assessable	25.58	25.59	0.2217	0.0	0.0	0.0	0.0	L 23 BROADSTONE PLACE Q-11
458-010-024-000	Assessable	26.74	26.75	0.2317	0.0	0.0	0.0	0.0	LOT 24 BROADSTONE PLACE MOR Q-11
458-010-025-000	Assessable	30.20	30.21	0.2617	0.0	0.0	0.0	0.0	L 25 BROADSTONE PLACE Q-11
458-010-026-000	Assessable	30.20	30.21	0.2617	0.0	0.0	0.0	0.0	L 45 BROADSTONE PLACE Q-11
458-010-027-000	Assessable	30.20	30.21	0.2617	0.0	0.0	0.0	0.0	L 46 BROADSTONE PLACE Q-11
458-010-028-000	Assessable	16.36	16.36	0.1417	0.0	0.0	0.0	0.0	L 47 BROADSTONE PLACE Q-11

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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
458-010-029-000	Assessable	25.58	25.59	0.2217	0.0	0.0	0.0	0.0	L 48 BROADSTONE PLACE Q-11
458-010-030-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 49 BROADSTONE PLACE Q-11
458-010-033-000	Assessable	27.90	27.90	0.2417	0.0	0.0	0.0	0.0	L 52 BROADSTONE PLACE Q-11
458-010-035-000	Assessable	27.90	27.90	0.2417	0.0	0.0	0.0	0.0	POR L 50 BROADSTONE PL Q-11
458-010-036-000	Assessable	26.74	26.75	0.2317	0.0	0.0	0.0	0.0	L51 & POR L50 BROADSTONE PLQ-11
458-020-001-000	Flood	8,493.70	8,493.71	0.0	0.0	0.0	0.0	0.0	L 71C BROADSTONE PLACE Q-11
458-020-002-000	Assessable	35.98	35.98	0.3117	0.0	0.0	0.0	0.0	L 26 BROADSTONE PLACE Q-11
458-020-003-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 27 BROADSTONE PLACE Q-11
458-020-004-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 28 BROADSTONE PLACE Q-11
458-020-005-000	Assessable	38.28	38.29	0.3317	0.0	0.0	0.0	0.0	L 29 BROADSTONE PLACE Q-11
458-020-006-000	Assessable	25.58	25.59	0.2217	0.0	0.0	0.0	0.0	LOT 30 BROADSTONE PLACE MOR Q-11
458-020-007-000	Assessable	25.58	25.59	0.2217	0.0	0.0	0.0	0.0	L 31 BROADSTONE PLACE Q-11
458-020-008-000	Assessable	39.44	39.45	0.3417	0.0	0.0	0.0	0.0	L 32 BROADSTONE PLACE Q-11
458-020-009-000	Assessable	39.44	39.45	0.3417	0.0	0.0	0.0	0.0	L 33 BROADSTONE PLACE Q-11
458-020-010-000	Assessable	29.06	29.06	0.2517	0.0	0.0	0.0	0.0	L 34 BROADSTONE PLACE Q-11
458-020-011-000	Assessable	31.36	31.37	0.2717	0.0	0.0	0.0	0.0	LOT 35 BROADSTONE PLACE Q-11
458-020-012-000	Assessable	25.58	25.59	0.2217	0.0	0.0	0.0	0.0	LOT 36 BROADSTONE PLACE MOR BK Q PG 11
458-020-013-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	L 37 BROADSTONE PLACE Q-11
458-020-014-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	L 38 BROADSTONE PLACE Q-11
458-020-015-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	L 39 BROADSTONE PLACE Q-11
458-020-016-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	L 40 BROADSTONE PLACE Q-11
458-020-017-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	L 41 BROADSTONE PLACE Q-11
458-020-018-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	L 42 BROADSTONE PLACE Q-11
458-020-019-000	Assessable	23.28	23.28	0.2017	0.0	0.0	0.0	0.0	L 43 BROADSTONE PLACE Q-11
458-020-020-000	Assessable	24.44	24.44	0.2117	0.0	0.0	0.0	0.0	L 44 BROADSTONE PLACE Q-11
458-030-001-000	Assessable	296.16	296.17	0.0	0.0	4.36	0.0	0.0	4.3 AC PAR 7E PM 25-91
458-030-004-000	Assessable	21.06	21.06	0.0	0.0	0.31	0.0	0.0	PAR 3 PMOR 28-15
458-030-005-000	Assessable	17.66	17.66	0.0	0.0	0.26	0.0	0.0	PAR 4 PMOR 28-15
458-030-006-000	Assessable	37.36	37.36	0.0	0.0	0.55	0.0	0.0	PAR 5 PMOR 28-15
458-030-009-000	Assessable	31.92	31.93	0.0	0.0	0.47	0.0	0.0	PAR 8 PMOR 28-15
458-030-010-000	Assessable	45.50	45.51	0.0	0.0	0.67	0.0	0.0	PAR 6 & 7 PMOR 28-15
458-030-014-000	Assessable	40.08	40.08	0.0	0.0	0.59	0.0	0.0	LOT A PMOR 28-71
458-030-015-000	Assessable	28.52	28.53	0.0	0.0	0.42	0.0	0.0	LOT B PMOR 28-71
458-030-016-000	Assessable	84.90	84.91	0.0	0.0	1.25	0.0	0.0	1.3 AC PAR 1 & POR PAR 2 PMOR 28-15
458-030-017-000	Assessable	34.38	34.39	0.0	0.0	0.5062	0.0	0.0	PAR 7H PMOR 28-119
458-030-018-000	Assessable	16.66	16.66	0.0	0.0	0.2452	0.0	0.0	PAR 1 PMOR 28-120
458-030-019-000	Assessable	21.68	21.69	0.0	0.0	0.3193	0.0	0.0	PAR 2 PMOR 28-120
458-030-020-000	Assessable	26.00	26.00	0.0	0.0	0.3828	0.0	0.0	PAR 3 PMOR 28-120
458-030-021-000	Assessable	25.48	25.48	0.0	0.0	0.3751	0.0	0.0	PAR 4 PMOR 28-120
458-030-022-000	Assessable	16.64	16.64	0.0	0.0	0.2449	0.0	0.0	PAR 5 PMOR 28-120
458-030-026-000	Assessable	34.86	34.86	0.0	0.0	0.5132	0.0	0.0	PAR 6 & 7 PMOR 28-120
458-040-001-000	Assessable	20.16	20.17	0.11	0.0	0.11	0.0	0.0	LOT 1 THE VILLAGE S-101
458-040-002-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 2 THE VILLAGE S-101
458-040-003-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 3 THE VILLAGE S-101
458-040-004-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 4 THE VILLAGE S-101
458-040-005-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 5 THE VILLAGE S-101

City of Roseville
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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
458-040-006-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 6 THE VILLAGE S-101
458-040-007-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 7 THE VILLAGE S-101
458-040-008-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 8 THE VILLAGE S-101
458-040-009-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 9 THE VILLAGE S-101
458-040-010-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 10 THE VILLAGE S-101
458-040-011-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 11 THE VILLAGE S-101
458-040-012-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 12 THE VILLAGE S-101
458-040-013-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 13 THE VILLAGE S-101
458-040-014-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 14 THE VILLAGE S-101
458-040-015-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 15 THE VILLAGE S-101
458-040-016-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 16 THE VILLAGE S-101
458-040-017-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 17 THE VILLAGE S-101
458-040-018-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 18 THE VILLAGE S-101
458-040-019-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 19 THE VILLAGE S-101
458-040-020-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 20 THE VILLAGE S-101
458-040-021-000	Assessable	18.34	18.34	0.1	0.0	0.1	0.0	0.0	LOT 21 THE VILLAGE S-101
458-040-022-000	Assessable	20.16	20.17	0.11	0.0	0.11	0.0	0.0	LOT 22 THE VILLAGE S-101
458-040-023-000	Assessable	34.84	34.84	0.19	0.0	0.19	0.0	0.0	LOT 23 THE VILLAGE S-101
458-040-024-000	Assessable	38.50	38.51	0.21	0.0	0.21	0.0	0.0	LOT 24 THE VILLAGE S-101
458-040-025-000	Assessable	20.16	20.17	0.11	0.0	0.11	0.0	0.0	LOT 25 THE VILLAGE S-101
458-040-026-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 26 THE VILLAGE S-101
458-040-027-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 27 THE VILLAGE S-101
458-040-028-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 28 THE VILLAGE S-101
458-040-029-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 29 THE VILLAGE S-101
458-040-030-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 30 THE VILLAGE S-101
458-040-031-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 31 THE VILLAGE S-101
458-040-032-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 32 THE VILLAGE S-101
458-040-033-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 33 THE VILLAGE S-101
458-040-034-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 34 THE VILLAGE S-101
458-040-035-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 35 THE VILLAGE S-101
458-040-036-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 36 THE VILLAGE S-101
458-040-037-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 37 THE VILLAGE S-101
458-040-038-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 38 THE VILLAGE S-101
458-040-039-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 39 THE VILLAGE S-101
458-040-040-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 40 THE VILLAGE S-101
458-040-041-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 41 THE VILLAGE S-101
458-040-042-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 42 THE VILLAGE S-101
458-040-043-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 55 THE VILLAGE S-101
458-040-044-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 56 THE VILLAGE S-101
458-040-045-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 57 THE VILLAGE S-101
458-040-046-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 58 THE VILLAGE S-101
458-040-047-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 59 THE VILLAGE S-101
458-040-048-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 60 THE VILLAGE S-101
458-040-049-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 61 THE VILLAGE S-101
458-040-050-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 62 THE VILLAGE S-101
458-040-051-000	Assessable	27.50	27.51	0.15	0.0	0.15	0.0	0.0	LOT 63 THE VILLAGE S-101

City of Roseville
Johnson Ranch Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
458-040-052-000	Assessable	38.50	38.51	0.21	0.0	0.21	0.0	0.0	LOT 64 THE VILLAGE S-101
458-040-053-000	Assessable	25.66	25.67	0.14	0.0	0.14	0.0	0.0	LOT 65 THE VILLAGE S-101
458-040-054-000	Assessable	18.34	18.34	0.1	0.0	0.1	0.0	0.0	LOT 66 THE VILLAGE S-101
458-040-055-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 67 THE VILLAGE S-101
458-040-056-000	Assessable	27.50	27.51	0.15	0.0	0.15	0.0	0.0	LOT 68 THE VILLAGE S-101
458-040-057-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 69 THE VILLAGE S-101
458-040-058-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 70 THE VILLAGE S-101
458-040-059-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 71 THE VILLAGE S-101
458-040-060-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 72 THE VILLAGE S-101
458-040-061-000	Assessable	18.34	18.34	0.1	0.0	0.1	0.0	0.0	LOT 73 THE VILLAGE S-101
458-040-062-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 74 THE VILLAGE S-101
458-040-063-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 75 THE VILLAGE S-101
458-040-064-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 76 THE VILLAGE S-101
458-040-065-000	Assessable	18.34	18.34	0.1	0.0	0.1	0.0	0.0	LOT 77 THE VILLAGE S-101
458-040-066-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 78 THE VILLAGE S-101
458-040-067-000	Assessable	25.66	25.67	0.14	0.0	0.14	0.0	0.0	LOT 79 THE VILLAGE S-101
458-050-001-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 43 THE VILLAGE S-101
458-050-002-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 44 THE VILLAGE S-101
458-050-003-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 45 THE VILLAGE S-101
458-050-004-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 46 THE VILLAGE S-101
458-050-005-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 47 THE VILLAGE S-101
458-050-006-000	Assessable	25.66	25.67	0.14	0.0	0.14	0.0	0.0	LOT 48 THE VILLAGE S-101
458-050-007-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 49 THE VILLAGE S-101
458-050-008-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 50 THE VILLAGE S-101
458-050-009-000	Assessable	18.34	18.34	0.1	0.0	0.1	0.0	0.0	LOT 51 THE VILLAGE S-101
458-050-010-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 52 THE VILLAGE S-101
458-050-011-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 53 THE VILLAGE S-101
458-050-012-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 54 THE VILLAGE S-101
458-050-013-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 80 THE VILLAGE S-101
458-050-014-000	Assessable	27.50	27.51	0.15	0.0	0.15	0.0	0.0	LOT 81 THE VILLAGE S-101
458-050-015-000	Assessable	33.00	33.01	0.18	0.0	0.18	0.0	0.0	LOT 82 THE VILLAGE S-101
458-050-016-000	Assessable	20.16	20.17	0.11	0.0	0.11	0.0	0.0	LOT 83 THE VILLAGE S-101
458-050-017-000	Assessable	25.66	25.67	0.14	0.0	0.14	0.0	0.0	LOT 84 THE VILLAGE S-101
458-050-018-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 85 THE VILLAGE S-101
458-050-019-000	Assessable	31.16	31.17	0.17	0.0	0.17	0.0	0.0	LOT 86 THE VILLAGE S-101
458-050-020-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 87 THE VILLAGE S-101
458-050-021-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 88 THE VILLAGE S-101
458-050-022-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 89 THE VILLAGE S-101
458-050-023-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 90 THE VILLAGE S-101
458-050-024-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 91 THE VILLAGE S-101
458-050-025-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 92 THE VILLAGE S-101
458-050-026-000	Assessable	18.34	18.34	0.1	0.0	0.1	0.0	0.0	LOT 93 THE VILLAGE S-101
458-050-027-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 94 THE VILLAGE S-101
458-050-028-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 95 THE VILLAGE S-101
458-050-029-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 96 THE VILLAGE S-101
458-050-030-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 97 THE VILLAGE S-101

City of Roseville
Johnson Ranch Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
458-050-031-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 98 THE VILLAGE S-101
458-050-032-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 99 THE VILLAGE S-101
458-050-033-000	Assessable	33.00	33.01	0.18	0.0	0.18	0.0	0.0	LOT 100 THE VILLAGE S-101
458-050-034-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 101 THE VILLAGE S-101
458-050-035-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 102 THE VILLAGE S-101
458-050-036-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 103 THE VILLAGE S-101
458-050-037-000	Assessable	20.16	20.17	0.11	0.0	0.11	0.0	0.0	LOT 104 THE VILLAGE S-101
458-050-038-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 105 THE VILLAGE S-101
458-050-039-000	Assessable	18.34	18.34	0.1	0.0	0.1	0.0	0.0	LOT 106 THE VILLAGE S-101
458-050-040-000	Assessable	20.16	20.17	0.11	0.0	0.11	0.0	0.0	LOT 107 THE VILLAGE S-101
458-050-041-000	Assessable	31.16	31.17	0.17	0.0	0.17	0.0	0.0	LOT 108 THE VILLAGE S-101
458-050-042-000	Assessable	20.16	20.17	0.11	0.0	0.11	0.0	0.0	LOT 109 THE VILLAGE S-101
458-050-043-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 110 THE VILLAGE S-101
458-050-044-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 111 THE VILLAGE S-101
458-050-045-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 112 THE VILLAGE S-101
458-050-046-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 113 THE VILLAGE S-101
458-050-047-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 114 THE VILLAGE S-101
458-050-048-000	Assessable	38.50	38.51	0.21	0.0	0.21	0.0	0.0	LOT 115 THE VILLAGE S-101
458-050-049-000	Assessable	51.34	51.34	0.28	0.0	0.28	0.0	0.0	LOT 116 THE VILLAGE S-101
458-050-050-000	Assessable	31.16	31.17	0.17	0.0	0.17	0.0	0.0	LOT 117 THE VILLAGE S-101
458-050-051-000	Assessable	27.50	27.51	0.15	0.0	0.15	0.0	0.0	LOT 118 THE VILLAGE S-101
458-050-052-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 119 THE VILLAGE S-101
458-050-053-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 120 THE VILLAGE S-101
458-050-054-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 121 THE VILLAGE S-101
458-050-055-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 122 THE VILLAGE S-101
458-050-056-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 123 THE VILLAGE S-101
458-050-057-000	Assessable	25.66	25.67	0.14	0.0	0.14	0.0	0.0	LOT 124 THE VILLAGE S-101
458-050-058-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 125 THE VILLAGE S-101
458-050-059-000	Assessable	27.50	27.51	0.15	0.0	0.15	0.0	0.0	LOT 126 THE VILLAGE S-101
458-050-060-000	Assessable	29.34	29.34	0.16	0.0	0.16	0.0	0.0	LOT 127 THE VILLAGE S-101
458-050-061-000	Assessable	29.34	29.34	0.16	0.0	0.16	0.0	0.0	LOT 128 THE VILLAGE S-101
458-050-062-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 129 THE VILLAGE S-101
458-050-063-000	Assessable	23.84	23.84	0.13	0.0	0.13	0.0	0.0	LOT 130 THE VILLAGE S-101
458-050-064-000	Assessable	27.50	27.51	0.15	0.0	0.15	0.0	0.0	LOT 131 THE VILLAGE S-101
458-050-065-000	Assessable	34.84	34.84	0.19	0.0	0.19	0.0	0.0	LOT 132 THE VILLAGE S-101
458-050-066-000	Assessable	22.00	22.00	0.12	0.0	0.12	0.0	0.0	LOT 133 THE VILLAGE S-101
458-050-067-000	Assessable	16.50	16.50	0.09	0.0	0.09	0.0	0.0	LOT 134 THE VILLAGE S-101
458-050-068-000	Assessable	18.34	18.34	0.1	0.0	0.1	0.0	0.0	LOT 135 THE VILLAGE S-101
458-050-069-000	Assessable	18.34	18.34	0.1	0.0	0.1	0.0	0.0	LOT 136 THE VILLAGE S-101
458-050-070-000	Assessable	20.16	20.17	0.11	0.0	0.11	0.0	0.0	LOT 137 THE VILLAGE S-101
458-060-005-000	Assessable	21.94	21.94	0.0	0.0	0.323	0.0	0.0	PAR 12 PMOR 28-159
458-060-006-000	Assessable	10.58	10.59	0.0	0.0	0.1559	0.0	0.0	PAR 13 PMOR 28-159
458-060-007-000	Assessable	17.40	17.40	0.0	0.0	0.2562	0.0	0.0	PAR 14 PMOR 28-159
458-060-010-000	Assessable	24.20	24.21	0.0	0.0	0.3564	0.0	0.0	PAR 9 & 10 PMOR 28-159
458-060-011-000	Assessable	21.18	21.19	0.0	0.0	0.3119	0.0	0.0	PAR 8 & 11 PMOR 28-159
458-060-012-000	Assessable	123.56	123.56	0.0	0.0	1.819	0.0	0.0	PAR A PMOR 29-71

City of Roseville
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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
458-060-013-000	Assessable	123.56	123.56	0.0	0.0	1.819	0.0	0.0	PAR B PMOR 29-71
458-060-014-000	Assessable	105.90	105.90	0.0	0.0	1.559	0.0	0.0	PAR C PMOR 29-71
458-060-015-000	Assessable	105.90	105.90	0.0	0.0	1.559	0.0	0.0	PAR D PMOR 29-71
458-060-016-000	Assessable	70.64	70.65	0.0	0.0	1.04	0.0	0.0	PAR E PMOR 29-71
458-060-017-000	Common Area	-	-	0.0	0.0	0.0	0.0	0.0	4.0 AC PAR F COMMON AREA
464-010-001-000	Assessable	10.98	10.98	0.0	0.29	0.0	0.29	0.0	LOT 107 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-002-000	Assessable	10.22	10.22	0.0	0.27	0.0	0.27	0.0	LOT 108 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-003-000	Assessable	8.70	8.71	0.0	0.23	0.0	0.23	0.0	LOT 109 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-004-000	Assessable	11.74	11.74	0.0	0.31	0.0	0.31	0.0	LOT 110 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-005-000	Assessable	12.48	12.49	0.0	0.33	0.0	0.33	0.0	LOT 111 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-006-000	Assessable	16.66	16.66	0.0	0.44	0.0	0.44	0.0	LOT 112 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-007-000	Assessable	11.74	11.74	0.0	0.31	0.0	0.31	0.0	LOT 113 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-008-000	Assessable	23.46	23.47	0.0	0.62	0.0	0.62	0.0	LOT 114 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-009-000	Assessable	9.84	9.84	0.0	0.26	0.0	0.26	0.0	LOT 115 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-010-000	Assessable	8.70	8.71	0.0	0.23	0.0	0.23	0.0	LOT 116 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-011-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 117 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-012-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 118 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-013-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 119 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-014-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 120 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-015-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 121 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-016-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 122 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-017-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 123 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-018-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 124 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-019-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 125 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-020-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 126 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-021-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 127 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-010-022-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 128 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-001-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 129 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-002-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 130 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-003-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 131 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-004-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 132 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-005-000	Assessable	9.46	9.47	0.0	0.25	0.0	0.25	0.0	LOT 133 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-006-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 134 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-007-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 135 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-008-000	Assessable	10.22	10.22	0.0	0.27	0.0	0.27	0.0	LOT 136 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-009-000	Assessable	15.52	15.52	0.0	0.41	0.0	0.41	0.0	LOT 137 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-010-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 138 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-020-011-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 139 ASHLEY WOODS UNIT NO. 3 MOR T-26
464-030-001-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 1 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-002-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 2 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-003-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 3 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-004-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 4 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-005-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 5 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-006-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 6 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-007-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 7 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-008-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 8 ASHLEY WOODS UNIT NO 1-B MOR U-79

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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
464-030-009-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 9 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-010-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 10 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-011-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 11 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-012-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 12 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-013-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 13 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-014-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 14 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-015-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 15 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-016-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 16 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-017-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 17 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-018-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 18 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-022-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 22 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-023-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 23 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-024-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 24 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-025-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 25 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-026-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 26 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-027-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 27 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-028-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 28 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-029-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 59 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-030-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 60 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-031-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 61 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-032-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 62 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-033-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 63 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-034-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 64 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-035-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 65 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-039-000	Assessable	16.26	16.26	0.0	0.4295	0.0	0.4295	0.0	POR LOT 19 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-040-000	Assessable	13.02	13.03	0.0	0.3441	0.0	0.3441	0.0	POR LOTS 19 & 20 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-030-041-000	Assessable	17.54	17.55	0.0	0.4636	0.0	0.4636	0.0	LOT 21 & POR 20 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-001-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 29 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-002-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 30 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-003-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 31 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-004-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 32 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-005-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 33 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-006-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 34 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-007-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 35 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-008-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 44 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-009-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 45 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-010-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 53 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-011-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 54 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-012-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 55 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-013-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 56 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-014-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 57 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-015-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 58 ASHLEY WOODS UNIT NO 1-B MOR U-79
464-040-016-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 66 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-017-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 67 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-018-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 68 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-019-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 69 ASHLEY WOODS UNIT NO 1-A MOR U-78

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464-040-020-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 70 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-021-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 71 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-022-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 72 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-023-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 73 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-024-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 74 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-025-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 75 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-026-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 76 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-027-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 77 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-028-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 78 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-029-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 79 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-040-030-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 80 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-001-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 36 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-002-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 37 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-003-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 38 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-004-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 39 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-005-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 40 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-006-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 41 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-007-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 42 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-008-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 43 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-015-000	Assessable	15.60	15.61	0.0	0.4124	0.0	0.4124	0.0	LOT 52 ASHLEY WOODS UNIT NO 1-A MOR U-78
464-050-021-000	Assessable	12.18	12.19	0.0	0.322	0.0	0.322	0.0	POR LOT 51 ASHLEY WOODS UNIT NO 1-A U-78
464-050-022-000	Assessable	15.44	15.44	0.0	0.4078	0.0	0.4078	0.0	LOT 50 & POR LOT 51 ASHLEY WOODS UNIT NO 1-A U-78
464-050-023-000	Assessable	14.78	14.78	0.0	0.3903	0.0	0.3903	0.0	LOT 49 & POR LOT 48 ASHLEY WOODS UNIT NO 1-A U-78
464-050-024-000	Assessable	14.40	14.41	0.0	0.3805	0.0	0.3805	0.0	POR LOT 48 ASHLEY WOODS UNIT NO 1-A U-78
464-050-025-000	Assessable	18.16	18.17	0.0	0.48	0.0	0.48	0.0	LOT 47 & P LOT 46&48 ASHLEY WOODS UNIT NO 1-A U-78
464-050-026-000	Assessable	18.68	18.69	0.0	0.4937	0.0	0.4937	0.0	POR LOT 46 ASHLEY WOODS UNIT NO 1-A U-78
464-060-001-000	Assessable	19.24	19.24	0.0	0.5072	0.0	0.5219	0.0	LOT 1 ASHLEY WOODS UNIT #5 & 6 PHASE 2 MOR W-20
464-060-002-000	Assessable	19.70	19.71	0.0	0.5197	0.0	0.5349	0.0	LOT 2 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-003-000	Assessable	14.18	14.19	0.0	0.3741	0.0	0.385	0.0	LOT 3 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-004-000	Assessable	20.60	20.60	0.0	0.5431	0.0	0.559	0.0	LOT 4 ASHLEY WOODS UNIT 5 & 6 PHASE 2 MOR W-20
464-060-005-000	Assessable	16.64	16.64	0.0	0.4388	0.0	0.4516	0.0	LOT 5 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-006-000	Assessable	14.18	14.19	0.0	0.3741	0.0	0.385	0.0	LOT 6 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-007-000	Assessable	14.26	14.26	0.0	0.3759	0.0	0.3868	0.0	LOT 7 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-008-000	Assessable	15.00	15.01	0.0	0.3957	0.0	0.4072	0.0	LOT 8 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-009-000	Assessable	15.88	15.89	0.0	0.419	0.0	0.4313	0.0	LOT 9 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-010-000	Assessable	15.34	15.35	0.0	0.4046	0.0	0.4164	0.0	LOT 49 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-011-000	Assessable	18.90	18.90	0.0	0.4982	0.0	0.5127	0.0	LOT 50 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-012-000	Assessable	14.86	14.87	0.0	0.3921	0.0	0.4035	0.0	LOT 51 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-013-000	Assessable	14.80	14.80	0.0	0.3903	0.0	0.4016	0.0	LOT 52 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-060-015-000	Common Area	-	-	0.0	0.0	0.0	0.0	0.0	5.2 AC POR LOT M2 COMMON AREA MOR W-20
464-060-016-000	Common Area	-	-	0.0	0.0	0.0	0.0	0.0	LOT M3 COMMON AREA MOR W-20
464-060-017-000	Common Area	-	-	0.0	0.0	0.0	0.0	0.0	POR LOT M4 COMMON AREA MOR W-20
464-070-001-000	Assessable	14.66	14.67	0.0	0.3867	0.0	0.3979	0.0	LOT 10 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-002-000	Assessable	14.66	14.67	0.0	0.3867	0.0	0.3979	0.0	LOT 11 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-003-000	Assessable	14.66	14.67	0.0	0.3867	0.0	0.3979	0.0	LOT 12 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-004-000	Assessable	14.66	14.67	0.0	0.3867	0.0	0.3979	0.0	LOT 13 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20

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464-070-005-000	Assessable	14.66	14.67	0.0	0.3867	0.0	0.3979	0.0	LOT 14 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-006-000	Assessable	16.16	16.17	0.0	0.4262	0.0	0.4387	0.0	LOT 15 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-007-000	Assessable	14.80	14.80	0.0	0.3903	0.0	0.4016	0.0	LOT 16 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-008-000	Assessable	12.82	12.82	0.0	0.3381	0.0	0.348	0.0	LOT 17 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-009-000	Assessable	12.82	12.82	0.0	0.3381	0.0	0.348	0.0	LOT 18 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-010-000	Assessable	12.40	12.41	0.0	0.3381	0.0	0.1666	0.0	LOT 19 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-011-000	Assessable	12.02	12.02	0.0	0.3381	0.0	0.0	0.0	LOT 20 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-012-000	Assessable	17.96	17.97	0.0	0.5054	0.0	0.0	0.0	LOT 21 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-013-000	Assessable	15.86	15.86	0.0	0.446	0.0	0.0	0.0	LOT 22 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-014-000	Assessable	13.82	13.82	0.0	0.3885	0.0	0.0	0.0	LOT 23 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-015-000	Assessable	14.38	14.39	0.0	0.4046	0.0	0.0	0.0	LOT 24 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-016-000	Assessable	24.30	24.30	0.0	0.6834	0.0	0.0	0.0	LOT 25 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-017-000	Assessable	13.18	13.18	0.0	0.3705	0.0	0.0	0.0	LOT 26 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-018-000	Assessable	13.58	13.59	0.0	0.3795	0.0	0.0426	0.0	LOT 27 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-019-000	Assessable	13.50	13.51	0.0	0.3561	0.0	0.3665	0.0	LOT 28 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-020-000	Assessable	15.00	15.01	0.0	0.3957	0.0	0.4072	0.0	LOT 29 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-021-000	Assessable	14.18	14.19	0.0	0.3741	0.0	0.385	0.0	LOT 30 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-022-000	Assessable	15.34	15.35	0.0	0.4046	0.0	0.4164	0.0	LOT 31 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-023-000	Assessable	16.56	16.56	0.0	0.437	0.0	0.4442	0.0	LOT 32 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-024-000	Assessable	14.90	14.90	0.0	0.4046	0.0	0.2221	0.0	LOT 33 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-025-000	Assessable	13.70	13.71	0.0	0.3795	0.0	0.0925	0.0	LOT 34 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-026-000	Assessable	15.28	15.28	0.0	0.4298	0.0	0.0	0.0	LOT 35 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-027-000	Assessable	25.90	25.90	0.0	0.7284	0.0	0.0	0.0	LOT 36 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-028-000	Assessable	25.36	25.37	0.0	0.6744	0.0	0.6015	0.0	LOT 37 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-029-000	Assessable	13.22	13.23	0.0	0.3489	0.0	0.3591	0.0	LOT 38 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-030-000	Assessable	14.94	14.94	0.0	0.3939	0.0	0.4053	0.0	LOT 39 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-031-000	Assessable	14.94	14.94	0.0	0.3939	0.0	0.4053	0.0	LOT 40 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-032-000	Assessable	14.94	14.94	0.0	0.3939	0.0	0.4053	0.0	LOT 41 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-033-000	Assessable	14.94	14.94	0.0	0.3939	0.0	0.4053	0.0	LOT 42 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-034-000	Assessable	12.88	12.89	0.0	0.3399	0.0	0.3498	0.0	LOT 43 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-035-000	Assessable	15.68	15.69	0.0	0.4136	0.0	0.4257	0.0	LOT 44 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-036-000	Assessable	15.14	15.14	0.0	0.3992	0.0	0.4109	0.0	LOT 45 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-037-000	Assessable	15.06	15.07	0.0	0.3974	0.0	0.409	0.0	LOT 46 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-038-000	Assessable	15.06	15.07	0.0	0.3974	0.0	0.409	0.0	LOT 47 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-039-000	Assessable	15.82	15.82	0.0	0.4172	0.0	0.4294	0.0	LOT 48 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-040-000	Assessable	14.18	14.19	0.0	0.3741	0.0	0.385	0.0	LOT 53 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-041-000	Assessable	14.18	14.19	0.0	0.3741	0.0	0.385	0.0	LOT 54 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-042-000	Assessable	15.54	15.55	0.0	0.41	0.0	0.422	0.0	LOT 55 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-043-000	Assessable	14.86	14.87	0.0	0.3921	0.0	0.4035	0.0	LOT 56 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-044-000	Assessable	24.42	24.42	0.0	0.6438	0.0	0.6626	0.0	LOT 57 ASHLEY WOODS UNITS 5 & 6 PH 2 MOR W-20
464-070-045-000	Common Area	-	-	0.0	0.0	0.0	0.0	0.0	POR LOT M2 COMMON AREA MOR W-20
466-030-046-000	Assessable	46.94	46.95	0.0	1.24	0.0	1.24	0.0	POR LOT 54 JOHNSON RANCH EAST #2 MOR Q-13
466-030-047-000	Common Area	-	-	0.0	0.0	0.0	0.0	0.0	POR LOT 54 JOHNSON RANCH EAST #2 MOR Q-13
466-190-001-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 122 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-002-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 123 HILLSBOROUGH UNIT 3 MOR R-34
466-190-003-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 124 HILLSBOROUGH UNIT 3 MOR BK R PG 34

City of Roseville
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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-190-004-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 125 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-005-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 126 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-006-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 127 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-007-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 128 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-008-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 129 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-009-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 171 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-010-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 172 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-011-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 173 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-012-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 174 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-013-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 175 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-014-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 176 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-015-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 177 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-016-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 178 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-017-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 179 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-190-018-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 180 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-001-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 130 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-002-000	Assessable	9.46	9.47	0.0	0.2663	0.0	0.0	0.0	LOT 131 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-003-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 132 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-004-000	Assessable	10.88	10.89	0.0	0.3063	0.0	0.0	0.0	LOT 133 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-005-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 134 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-006-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 135 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-007-000	Assessable	12.66	12.67	0.0	0.3563	0.0	0.0	0.0	LOT 136 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-008-000	Assessable	15.16	15.16	0.0	0.4263	0.0	0.0	0.0	LOT 137 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-009-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 138 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-010-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 139 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-011-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 140 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-012-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 141 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-013-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 142 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-014-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 143 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-015-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 144 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-016-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 145 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-017-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 146 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-018-000	Assessable	14.08	14.09	0.0	0.3963	0.0	0.0	0.0	LOT 147 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-019-000	Assessable	10.18	10.18	0.0	0.2863	0.0	0.0	0.0	LOT 148 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-020-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 149 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-021-000	Assessable	11.60	11.60	0.0	0.3263	0.0	0.0	0.0	LOT 150 HILLSBOROUGH UNIT 3 BK R PG 34
466-200-022-000	Assessable	10.54	10.54	0.0	0.2963	0.0	0.0	0.0	LOT 151 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-023-000	Assessable	14.80	14.80	0.0	0.4163	0.0	0.0	0.0	LOT 152 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-024-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 153 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-025-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 154 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-026-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 155 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-027-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 156 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-028-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 157 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-029-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 158 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-030-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 159 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-031-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 160 HILLSBOROUGH UNIT 3 MOR BK R PG 34

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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-200-032-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 161 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-033-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 162 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-034-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 163 HILLSBOROUGH UNIT 3 MOR R-34
466-200-035-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 164 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-036-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 165 HILLSBOROUGH UNIT 3 MOR R-34
466-200-037-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 166 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-038-000	Assessable	9.46	9.47	0.0	0.2663	0.0	0.0	0.0	LOT 167 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-039-000	Assessable	10.18	10.18	0.0	0.2863	0.0	0.0	0.0	LOT 168 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-040-000	Assessable	11.24	11.25	0.0	0.3163	0.0	0.0	0.0	LOT 169 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-200-041-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 170 HILLSBOROUGH UNIT 3 MOR BK R PG 34
466-210-001-000	Assessable	10.18	10.18	0.0	0.2863	0.0	0.0	0.0	L19 HILLSBOROUGH #1 BK R PG 33
466-210-002-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 20 HILLSBOROUGH #1 BK R PG 33
466-210-003-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 21 HILLSBOROUGH #1 BK R PG 33
466-210-004-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 22 HILLSBOROUGH #1 BK R PG 33
466-210-005-000	Assessable	11.96	11.96	0.0	0.3363	0.0	0.0	0.0	LOT 23 HILLSBOROUGH #1 BK R PG 33
466-210-006-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 24 HILLSBOROUGH #1 BK R PG 33
466-210-007-000	Assessable	13.02	13.03	0.0	0.3663	0.0	0.0	0.0	LOT 25 HILLSBOROUGH #1 BK R PG 33
466-210-008-000	Assessable	13.38	13.38	0.0	0.3763	0.0	0.0	0.0	LOT 26 HILLSBOROUGH #1 BK R PG 33
466-210-009-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 27 HILLSBOROUGH #1 BK R PG 33
466-210-010-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 28 HILLSBOROUGH #1 BK R PG 33
466-210-011-000	Assessable	9.46	9.47	0.0	0.2663	0.0	0.0	0.0	LOT 29 HILLSBOROUGH #1 BK R PG 33
466-210-012-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 30 HILLSBOROUGH #1 BK R PG 33
466-210-013-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 31 HILLSBOROUGH #1 BK R PG 33
466-210-014-000	Assessable	10.18	10.18	0.0	0.2863	0.0	0.0	0.0	LOT 32 HILLSBOROUGH #1 BK R PG 33
466-210-015-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 33 HILLSBOROUGH #1 BK R PG 33
466-210-016-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 34 HILLSBOROUGH #1 BK R PG 33
466-210-017-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 35 HILLSBOROUGH #1 BK R PG 33
466-210-018-000	Assessable	6.98	6.98	0.0	0.1963	0.0	0.0	0.0	LOT 36 HILLSBOROUGH #1 MOR R-33
466-210-019-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 37 HILLSBOROUGH #1 BK R PG 33
466-210-020-000	Assessable	9.46	9.47	0.0	0.2663	0.0	0.0	0.0	LOT 38 HILLSBOROUGH #1 BK R PG 33
466-210-021-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 39 HILLSBOROUGH #1 BK R PG 33
466-210-022-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 40 HILLSBOROUGH #1 BK R PG 33
466-210-023-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 41 HILLSBOROUGH #1 BK R PG 33
466-210-024-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 42 HILLSBOROUGH #1 BK R PG 33
466-210-025-000	Assessable	10.18	10.18	0.0	0.2863	0.0	0.0	0.0	LOT 43 HILLSBOROUGH #1 BK R PG 33
466-210-026-000	Assessable	9.46	9.47	0.0	0.2663	0.0	0.0	0.0	LOT 44 HILLSBOROUGH #1 BK R PG 33
466-210-027-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 45 HILLSBOROUGH #1 BK R PG 33
466-210-028-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 46 HILLSBOROUGH #1 BK R PG 33
466-210-029-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 47 HILLSBOROUGH #1 BK R PG 33
466-210-030-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 48 HILLSBOROUGH #1 BK R PG 33
466-210-031-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 49 HILLSBOROUGH #1 BK R PG 33
466-210-032-000	Assessable	10.54	10.54	0.0	0.2963	0.0	0.0	0.0	LOT 50 HILLSBOROUGH #1 BK R PG 33
466-210-033-000	Assessable	11.96	11.96	0.0	0.3363	0.0	0.0	0.0	LOT 51 HILLSBOROUGH #1 BK R PG 33
466-210-034-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 65 HILLSBOROUGH #1 BK R PG 33
466-210-035-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 66 HILLSBOROUGH #1 BK R PG 33
466-210-036-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 67 HILLSBOROUGH #1 BK R PG 33

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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-210-037-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 68 HILLSBOROUGH #1 BK R PG 33
466-210-038-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	L69 HILLSBOROUGH #1 MOR R-33
466-210-039-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 70 HILLSBOROUGH #1 BK R PG 33
466-210-040-000	Assessable	10.18	10.18	0.0	0.2863	0.0	0.0	0.0	LOT 71 HILLSBOROUGH #1 BK R PG 33
466-210-041-000	Assessable	10.18	10.18	0.0	0.2863	0.0	0.0	0.0	LOT 72 HILLSBOROUGH #1 BK R PG 33
466-210-042-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 73 HILLSBOROUGH #1 BK R PG 33
466-210-043-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 74 HILLSBOROUGH #1 BK R PG 33
466-210-044-000	Assessable	15.50	15.51	0.0	0.4363	0.0	0.0	0.0	LOT 75 HILLSBOROUGH #1 BK R PG 33
466-210-045-000	Assessable	13.74	13.74	0.0	0.3863	0.0	0.0	0.0	LOT 76 HILLSBOROUGH #1 BK R PG 33
466-210-046-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 77 HILLSBOROUGH #1 BK R PG 33
466-210-047-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 78 HILLSBOROUGH #1 BK R PG 33
466-210-048-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 79 HILLSBOROUGH #1 BK R PG 33
466-210-049-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 80 HILLSBOROUGH #1 BK R PG 33
466-210-050-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 81 HILLSBOROUGH #1 BK R PG 33
466-210-051-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 82 HILLSBOROUGH #1 BK R PG 33
466-210-052-000	Assessable	10.54	10.54	0.0	0.2963	0.0	0.0	0.0	LOT 83 HILLSBOROUGH #1 BK R PG 33
466-210-053-000	Assessable	9.46	9.47	0.0	0.2663	0.0	0.0	0.0	LOT 84 HILLSBOROUGH #1 BK R PG 33
466-210-054-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 85 HILLSBOROUGH #1 BK R PG 33
466-210-055-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 86 HILLSBOROUGH #1 BK R PG 33
466-210-056-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 87 HILLSBOROUGH #1 BK R PG 33
466-210-057-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 88 HILLSBOROUGH #1 BK R PG 33
466-210-058-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 89 HILLSBOROUGH #1 MOR R-33
466-210-059-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 90 HILLSBOROUGH #1 MOR R-33
466-210-060-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 91 HILLSBOROUGH #1 BK R PG 33
466-210-061-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 92 HILLSBOROUGH #1 BK R PG 33
466-210-062-000	Assessable	13.74	13.74	0.0	0.3863	0.0	0.0	0.0	LOT 93 HILLSBOROUGH #1 BK R PG 33
466-210-063-000	Assessable	13.02	13.03	0.0	0.3663	0.0	0.0	0.0	LOT 94 HILLSBOROUGH #1 BK R PG 33
466-210-064-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 95 HILLSBOROUGH #1 BK R PG 33
466-210-065-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 96 HILLSBOROUGH #1 BK R PG 33
466-210-066-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 97 HILLSBOROUGH #1 BK R PG 33
466-210-067-000	Assessable	12.30	12.31	0.0	0.3463	0.0	0.0	0.0	LOT 98 HILLSBOROUGH #1 MOR R-33
466-210-068-000	Assessable	11.60	11.60	0.0	0.3263	0.0	0.0	0.0	LOT 99 HILLSBOROUGH #1 BK R PG 33
466-220-001-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 1 HILLSBOROUGH #1 BK R PG 33
466-220-002-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 2 HILLSBOROUGH #1 BK R PG 33
466-220-003-000	Assessable	12.66	12.67	0.0	0.3563	0.0	0.0	0.0	LOT 3 HILLSBOROUGH #1 BK R PG 33
466-220-004-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 4 HILLSBOROUGH #1 BK R PG 33
466-220-005-000	Assessable	10.54	10.54	0.0	0.2963	0.0	0.0	0.0	LOT 5 HILLSBOROUGH UNIT #1 MOR BK R PG 33
466-220-006-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 6 HILLSBOROUGH #1 BK R PG 33
466-220-007-000	Assessable	6.98	6.98	0.0	0.1963	0.0	0.0	0.0	LOT 7 HILLSBOROUGH #1 BK R PG 33
466-220-008-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 8 HILLSBOROUGH #1 BK R PG 33
466-220-009-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 9 HILLSBOROUGH #1 BK R PG 33
466-220-010-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 10 HILLSBOROUGH #1 BK R PG 33
466-220-011-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 11 HILLSBOROUGH #1 BK R PG 33
466-220-012-000	Assessable	12.66	12.67	0.0	0.3563	0.0	0.0	0.0	LOT 12 HILLSBOROUGH #1 BK R PG 33
466-220-013-000	Assessable	10.88	10.89	0.0	0.3063	0.0	0.0	0.0	LOT 13 HILLSBOROUGH #1 BK R PG 33
466-220-014-000	Assessable	12.66	12.67	0.0	0.3563	0.0	0.0	0.0	LOT 14 HILLSBOROUGH #1 BK R PG 33

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466-220-015-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 15 HILLSBOROUGH #1 BK R PG 33
466-220-016-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	L16 HILLSBOROUGH #1 BK R PG 33
466-220-017-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 17 HILLSBOROUGH #1 BK R PG 33
466-220-018-000	Assessable	10.88	10.89	0.0	0.3063	0.0	0.0	0.0	LOT 18 HILLSBOROUGH #1 BK R PG 33
466-220-019-000	Assessable	11.96	11.96	0.0	0.3363	0.0	0.0	0.0	LOT 52 HILLSBOROUGH #1 BK R PG 33
466-220-020-000	Assessable	10.54	10.54	0.0	0.2963	0.0	0.0	0.0	LOT 53 HILLSBOROUGH #1 BK R PG 33
466-220-021-000	Assessable	9.46	9.47	0.0	0.2663	0.0	0.0	0.0	LOT 54 HILLSBOROUGH #1 BK R PG 33
466-220-022-000	Assessable	10.18	10.18	0.0	0.2863	0.0	0.0	0.0	LOT 55 HILLSBOROUGH #1 BK R PG 33
466-220-023-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 56 HILLSBOROUGH #1 BK R PG 33
466-220-024-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 57 HILLSBOROUGH #1 BK R PG 33
466-220-025-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 58 HILLSBOROUGH #1 BK R PG 33
466-220-026-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 59 HILLSBOROUGH #1 BK R PG 33
466-220-027-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 60 HILLSBOROUGH #1 BK R PG 33
466-220-028-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 61 HILLSBOROUGH #1 BK R PG 33
466-220-029-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 62 HILLSBOROUGH #1 BK R PG 33
466-220-030-000	Assessable	10.54	10.54	0.0	0.2963	0.0	0.0	0.0	LOT 63 HILLSBOROUGH #1 BK R PG 33
466-220-031-000	Assessable	9.46	9.47	0.0	0.2663	0.0	0.0	0.0	LOT 64 HILLSBOROUGH #1 BK R PG 33
466-220-032-000	Assessable	10.88	10.89	0.0	0.3063	0.0	0.0	0.0	LOT 100 HILLSBOROUGH#1 BK R PG 33
466-220-033-000	Assessable	12.66	12.67	0.0	0.3563	0.0	0.0	0.0	LOT 101 HILLSBOROUGH#1 BK R PG 33
466-220-034-000	Assessable	10.88	10.89	0.0	0.3063	0.0	0.0	0.0	LOT 102 HILLSBOROUGH#1 BK R PG 33
466-220-035-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 103 HILLSBOROUGH#1 BK R PG 33
466-220-036-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 104 HILLSBOROUGH#1 BK R PG 33
466-220-037-000	Assessable	8.40	8.40	0.0	0.2363	0.0	0.0	0.0	LOT 105 HILLSBOROUGH#1 BK R PG 33
466-220-038-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 106 HILLSBOROUGH#1 BK R PG 33
466-220-039-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 107 HILLSBOROUGH#1 BK R PG 33
466-220-040-000	Assessable	7.68	7.69	0.0	0.2163	0.0	0.0	0.0	LOT 108 HILLSBOROUGH#1 BK R PG 33
466-220-041-000	Assessable	8.76	8.76	0.0	0.2463	0.0	0.0	0.0	LOT 109 HILLSBOROUGH#1 BK R PG 33
466-220-042-000	Assessable	9.10	9.11	0.0	0.2563	0.0	0.0	0.0	LOT 110 HILLSBOROUGH#1 BK R PG 33
466-220-043-000	Assessable	11.96	11.96	0.0	0.3363	0.0	0.0	0.0	LOT 111 HILLSBOROUGH#1 BK R PG 33
466-220-044-000	Assessable	11.60	11.60	0.0	0.3263	0.0	0.0	0.0	LOT 112 HILLSBOROUGH UNIT #1 MOR R-33
466-220-045-000	Assessable	11.60	11.60	0.0	0.3263	0.0	0.0	0.0	LOT 113 HILLSBOROUGH#1 BK R PG 33
466-220-046-000	Assessable	10.88	10.89	0.0	0.3063	0.0	0.0	0.0	LOT 114 HILLSBOROUGH#1 MOR BK R PG 33
466-220-047-000	Assessable	7.34	7.34	0.0	0.2063	0.0	0.0	0.0	LOT 115 HILLSBOROUGH#1 BK R PG 33
466-220-048-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 116 HILLSBOROUGH#1 BK R PG 33
466-220-049-000	Assessable	9.82	9.83	0.0	0.2763	0.0	0.0	0.0	LOT 117 HILLSBOROUGH#1 BK R PG 33
466-220-050-000	Assessable	11.60	11.60	0.0	0.3263	0.0	0.0	0.0	LOT 118 HILLSBOROUGH#1 BK R PG 33
466-220-051-000	Assessable	13.74	13.74	0.0	0.3863	0.0	0.0	0.0	LOT 119 HILLSBOROUGH UNIT #1 MOR R-33
466-220-052-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 120 HILLSBOROUGH#1 BK R PG 33
466-220-053-000	Assessable	8.04	8.05	0.0	0.2263	0.0	0.0	0.0	LOT 121 HILLSBOROUGH#1 BK R PG 33
466-230-002-000	Common	-	-	0.0	0.0	0.0	0.0	0.0	L D HILLSBOROUGH #1 BK R PG 33
466-230-003-000	Common	-	-	0.0	0.0	0.0	0.0	0.0	L G HILLSBOROUGH #1 BK R PG 33
466-230-004-000	Common	-	-	0.0	0.0	0.0	0.0	0.0	L H HILLSBOROUGH #1 BK R PG 33
466-230-005-000	Common	-	-	0.0	0.0	0.0	0.0	0.0	L I HILLSBOROUGH #1 BK R PG 33
466-230-006-000	Common	-	-	0.0	0.0	0.0	0.0	0.0	L J HILLSBOROUGH #1 BK R PG 33
466-230-007-000	Common	-	-	0.0	0.0	0.0	0.0	0.0	L K HILLSBOROUGH #1 BK R PG 33
466-230-008-000	Common	-	-	0.0	0.0	0.0	0.0	0.0	L L HILLSBOROUGH #1 BK R PG 33

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466-230-009-000	Common	-	-	0.0	0.0	0.0	0.0	0.0	L M HILLSBOROUGH #1 BK R PG 33
466-280-001-000	Assessable	9.18	9.19	0.0	0.2427	0.0	0.2427	0.0	LOT 1 EASTRIDGE UNIT 1 S-66
466-280-002-000	Assessable	8.04	8.05	0.0	0.2127	0.0	0.2127	0.0	LOT 2 EASTRIDGE UNIT 1 S-66
466-280-003-000	Assessable	8.04	8.05	0.0	0.2127	0.0	0.2127	0.0	LOT 3 EASTRIDGE UNIT 1 S-66
466-280-004-000	Assessable	9.56	9.57	0.0	0.2527	0.0	0.2527	0.0	LOT 4 EASTRIDGE UNIT 1 S-66
466-280-005-000	Assessable	14.10	14.11	0.0	0.3727	0.0	0.3727	0.0	LOT 5 EASTRIDGE UNIT 1 S-66
466-280-006-000	Assessable	25.84	25.85	0.0	0.6827	0.0	0.6827	0.0	LOT 6 EASTRIDGE UNIT 1 S-66
466-280-007-000	Assessable	9.18	9.19	0.0	0.2427	0.0	0.2427	0.0	LOT 7 EASTRIDGE UNIT 1 S-66
466-280-008-000	Assessable	10.32	10.33	0.0	0.2727	0.0	0.2727	0.0	LOT 8 EASTRIDGE UNIT 1 S-66
466-280-009-000	Assessable	10.32	10.33	0.0	0.2727	0.0	0.2727	0.0	LOT 9 EASTRIDGE UNIT 1 S-66
466-280-010-000	Assessable	9.18	9.19	0.0	0.2427	0.0	0.2427	0.0	LOT 10 EASTRIDGE UNIT 1 S-66
466-280-011-000	Assessable	17.90	17.90	0.0	0.4727	0.0	0.4727	0.0	LOT 11 EASTRIDGE UNIT 1 S-66
466-280-012-000	Assessable	8.42	8.43	0.0	0.2227	0.0	0.2227	0.0	LOT 12 EASTRIDGE UNIT 1 S-66
466-280-013-000	Assessable	7.30	7.30	0.0	0.1927	0.0	0.1927	0.0	LOT 13 EASTRIDGE UNIT 1 S-66
466-280-014-000	Assessable	8.04	8.05	0.0	0.2127	0.0	0.2127	0.0	LOT 14 EASTRIDGE UNIT 1 S-66
466-280-015-000	Assessable	10.32	10.33	0.0	0.2727	0.0	0.2727	0.0	LOT 15 EASTRIDGE UNIT 1 S-66
466-290-001-000	Assessable	6.10	6.11	0.0	0.1613	0.0	0.1613	0.0	LOT 35 EASTRIDGE UNIT 1 S-66
466-290-002-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 36 EASTRIDGE UNIT 1 S-66
466-290-003-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 37 EASTRIDGE UNIT 1 S-66
466-290-004-000	Assessable	6.10	6.11	0.0	0.1613	0.0	0.1613	0.0	LOT 38 EASTRIDGE UNIT 1 S-66
466-290-005-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 39 EASTRIDGE UNIT 1 S-66
466-290-006-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 40 EASTRIDGE UNIT 1 S-66
466-290-007-000	Assessable	9.14	9.14	0.0	0.2413	0.0	0.2413	0.0	LOT 41 EASTRIDGE UNIT 1 S-66
466-290-008-000	Assessable	8.76	8.76	0.0	0.2313	0.0	0.2313	0.0	LOT 42 EASTRIDGE UNIT 1 S-66
466-290-009-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 43 EASTRIDGE UNIT 1 S-66
466-290-010-000	Assessable	9.14	9.14	0.0	0.2413	0.0	0.2413	0.0	LOT 44 EASTRIDGE UNIT 1 S-66
466-290-011-000	Assessable	9.14	9.14	0.0	0.2413	0.0	0.2413	0.0	LOT 45 EASTRIDGE UNIT 1 S-66
466-290-012-000	Assessable	11.02	11.03	0.0	0.2913	0.0	0.2913	0.0	LOT 46 EASTRIDGE UNIT 1 S-66
466-290-013-000	Assessable	16.70	16.71	0.0	0.4413	0.0	0.4413	0.0	LOT 47 EASTRIDGE UNIT 1 S-66
466-290-014-000	Assessable	15.94	15.95	0.0	0.4213	0.0	0.4213	0.0	LOT 48 EASTRIDGE UNIT 1 S-66
466-290-015-000	Assessable	13.30	13.30	0.0	0.3513	0.0	0.3513	0.0	LOT 49 EASTRIDGE UNIT 1 S-66
466-290-016-000	Assessable	11.02	11.03	0.0	0.2913	0.0	0.2913	0.0	LOT 50 EASTRIDGE UNIT 1 S-66
466-290-017-000	Assessable	10.64	10.65	0.0	0.2813	0.0	0.2813	0.0	LOT 51 EASTRIDGE UNIT 1 S-66
466-290-018-000	Assessable	15.56	15.57	0.0	0.4113	0.0	0.4113	0.0	LOT 52 EASTRIDGE UNIT 1 S-66
466-290-019-000	Assessable	11.78	11.79	0.0	0.3113	0.0	0.3113	0.0	LOT 53 EASTRIDGE UNIT 1 S-66
466-290-020-000	Assessable	26.16	26.17	0.0	0.6913	0.0	0.6913	0.0	LOT 54 EASTRIDGE UNIT 1 S-66
466-290-021-000	Assessable	10.64	10.65	0.0	0.2813	0.0	0.2813	0.0	LOT 55 EASTRIDGE UNIT 1 S-66
466-290-022-000	Assessable	9.14	9.14	0.0	0.2413	0.0	0.2413	0.0	LOT 56 EASTRIDGE UNIT 1 S-66
466-290-023-000	Assessable	9.50	9.51	0.0	0.2513	0.0	0.2513	0.0	LOT 57 EASTRIDGE UNIT 1 S-66
466-290-024-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 58 EASTRIDGE UNIT 1 S-66
466-290-025-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 59 EASTRIDGE UNIT 1 S-66
466-290-026-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 60 EASTRIDGE UNIT 1 S-66
466-290-027-000	Assessable	14.06	14.06	0.0	0.3713	0.0	0.3713	0.0	LOT 61 EASTRIDGE UNIT 1 S-66
466-290-028-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 62 EASTRIDGE UNIT 1 S-66
466-290-029-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 63 EASTRIDGE UNIT 1 S-66
466-290-030-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 64 EASTRIDGE UNIT 1 S-66

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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-290-031-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 65 EASTRIDGE UNIT 1 S-66
466-290-032-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 66 EASTRIDGE UNIT 1 S-66
466-290-033-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 67 EASTRIDGE UNIT 1 S-66
466-300-001-000	Assessable	9.14	9.14	0.0	0.2413	0.0	0.2413	0.0	LOT 28 EASTRIDGE UNIT 1 S-66
466-300-002-000	Assessable	9.88	9.89	0.0	0.2613	0.0	0.2613	0.0	LOT 29 EASTRIDGE UNIT 1 S-66
466-300-003-000	Assessable	10.26	10.27	0.0	0.2713	0.0	0.2713	0.0	LOT 30 EASTRIDGE UNIT 1 S-66
466-300-004-000	Assessable	11.02	11.03	0.0	0.2913	0.0	0.2913	0.0	LOT 31 EASTRIDGE UNIT 1 S-66
466-300-005-000	Assessable	15.18	15.19	0.0	0.4013	0.0	0.4013	0.0	LOT 32 EASTRIDGE UNIT 1 S-66
466-300-006-000	Assessable	12.16	12.17	0.0	0.3213	0.0	0.3213	0.0	LOT 33 EASTRIDGE UNIT 1 S-66
466-300-007-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 34 EASTRIDGE UNIT 1 S-66
466-300-008-000	Assessable	9.50	9.51	0.0	0.2513	0.0	0.2513	0.0	LOT 68 EASTRIDGE UNIT 1 S-66
466-300-009-000	Assessable	8.76	8.76	0.0	0.2313	0.0	0.2313	0.0	LOT 69 EASTRIDGE UNIT 1 S-66
466-300-010-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 70 EASTRIDGE UNIT 1 S-66
466-300-011-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 71 EASTRIDGE UNIT 1 S-66
466-300-012-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 72 EASTRIDGE UNIT 1 S-66
466-300-013-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 73 EASTRIDGE UNIT 1 S-66
466-300-014-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 74 EASTRIDGE UNIT 1 S-66
466-300-015-000	Assessable	12.54	12.54	0.0	0.3313	0.0	0.3313	0.0	LOT 75 EASTRIDGE UNIT 1 S-66
466-300-016-000	Assessable	9.50	9.51	0.0	0.2513	0.0	0.2513	0.0	LOT 76 EASTRIDGE UNIT 1 S-66
466-300-017-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 77 EASTRIDGE UNIT 1 S-66
466-300-018-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 78 EASTRIDGE UNIT 1 S-66
466-300-019-000	Assessable	11.40	11.41	0.0	0.3013	0.0	0.3013	0.0	LOT 79 EASTRIDGE UNIT 1 S-66
466-300-020-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 80 EASTRIDGE UNIT 1 S-66
466-300-021-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 81 EASTRIDGE UNIT 1 S-66
466-300-022-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 82 EASTRIDGE UNIT 1 S-66
466-300-023-000	Assessable	6.48	6.49	0.0	0.1713	0.0	0.1713	0.0	LOT 83 EASTRIDGE UNIT 1 S-66
466-300-024-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 84 EASTRIDGE UNIT 1 S-66
466-300-025-000	Assessable	6.10	6.11	0.0	0.1613	0.0	0.1613	0.0	LOT 85 EASTRIDGE UNIT 1 S-66
466-300-026-000	Assessable	6.10	6.11	0.0	0.1613	0.0	0.1613	0.0	LOT 86 EASTRIDGE UNIT 1 S-66
466-300-027-000	Assessable	8.76	8.76	0.0	0.2313	0.0	0.2313	0.0	LOT 87 EASTRIDGE UNIT 1 S-66
466-300-028-000	Assessable	12.16	12.17	0.0	0.3213	0.0	0.3213	0.0	LOT 88 EASTRIDGE UNIT 1 S-66
466-300-029-000	Assessable	9.50	9.51	0.0	0.2513	0.0	0.2513	0.0	LOT 89 EASTRIDGE UNIT 1 S-66
466-300-030-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 90 EASTRIDGE UNIT 1 S-66
466-300-031-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 91 EASTRIDGE UNIT 1 S-66
466-300-032-000	Assessable	12.16	12.17	0.0	0.3213	0.0	0.3213	0.0	LOT 92 EASTRIDGE UNIT 1 S-66
466-300-033-000	Assessable	10.26	10.27	0.0	0.2713	0.0	0.2713	0.0	LOT 93 EASTRIDGE UNIT 1 S-66
466-300-034-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 94 EASTRIDGE UNIT 1 S-66
466-300-035-000	Assessable	12.54	12.54	0.0	0.3313	0.0	0.3313	0.0	LOT 95 EASTRIDGE UNIT 1 S-66
466-310-001-000	Assessable	16.82	16.82	0.0	0.4442	0.0	0.4442	0.0	LOT 16 EASTRIDGE UNIT 2 S-67
466-310-006-000	Assessable	12.28	12.28	0.0	0.3242	0.0	0.3242	0.0	LOT 21 EASTRIDGE UNIT 2 S-67
466-310-007-000	Assessable	9.24	9.25	0.0	0.2442	0.0	0.2442	0.0	LOT 22 EASTRIDGE UNIT 2 S-67
466-310-008-000	Assessable	11.52	11.52	0.0	0.3042	0.0	0.3042	0.0	LOT 23 EASTRIDGE UNIT 2 S-67
466-310-009-000	Assessable	13.02	13.03	0.0	0.3442	0.0	0.3442	0.0	LOT 24 EASTRIDGE UNIT 2 S-67
466-310-010-000	Assessable	10.38	10.38	0.0	0.2742	0.0	0.2742	0.0	LOT 25 EASTRIDGE UNIT 2 S-67
466-310-011-000	Assessable	10.38	10.38	0.0	0.2742	0.0	0.2742	0.0	LOT 26 EASTRIDGE UNIT 2 S-67
466-310-012-000	Assessable	13.40	13.41	0.0	0.3542	0.0	0.3542	0.0	LOT 27 EASTRIDGE UNIT 2 S-67

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466-310-016-000	Assessable	15.14	15.14	0.0	0.4	0.0	0.4	0.0	POR LOT 17 EASTRIDGE UNIT 2 S-67
466-310-017-000	Assessable	17.80	17.80	0.0	0.47	0.0	0.47	0.0	POR LOTS 17 & 18 EASTRIDGE UNIT 2 S-67
466-310-018-000	Assessable	13.24	13.25	0.0	0.35	0.0	0.35	0.0	POR LOTS 18 & 19 EASTRIDGE UNIT 2 S-67
466-310-019-000	Assessable	18.54	18.55	0.0	0.49	0.0	0.49	0.0	LOT 20 & POR LOT 19 EASTRIDGE UNIT 2 S-67
466-320-001-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 96 EASTRIDGE UNIT 3 MOR S-68
466-320-002-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 97 EASTRIDGE UNIT 3 MOR S-68
466-320-003-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 98 EASTRIDGE UNIT 3 MOR S-68
466-320-004-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 99 EASTRIDGE UNIT 3 MOR S-68
466-320-005-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 100 EASTRIDGE UNIT 3 MOR S-68
466-320-006-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 101 EASTRIDGE UNIT 3 MOR S-68
466-320-007-000	Assessable	6.48	6.49	0.0	0.1713	0.0	0.1713	0.0	LOT 102 EASTRIDGE UNIT 3 MOR S-68
466-320-008-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 103 EASTRIDGE UNIT 3 MOR S-68
466-320-009-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 104 EASTRIDGE UNIT 3 MOR S-68
466-320-010-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 105 EASTRIDGE UNIT 3 MOR S-68
466-320-011-000	Assessable	9.88	9.89	0.0	0.2613	0.0	0.2613	0.0	LOT 106 EASTRIDGE UNIT 3 MOR S-68
466-320-012-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 107 EASTRIDGE UNIT 3 MOR S-68
466-320-013-000	Assessable	9.88	9.89	0.0	0.2613	0.0	0.2613	0.0	LOT 108 EASTRIDGE UNIT 3 MOR S-68
466-320-014-000	Assessable	10.64	10.65	0.0	0.2813	0.0	0.2813	0.0	LOT 109 EASTRIDGE UNIT 3 MOR S-68
466-320-015-000	Assessable	10.26	10.27	0.0	0.2713	0.0	0.2713	0.0	LOT 110 EASTRIDGE UNIT 3 MOR S-68
466-320-016-000	Assessable	14.82	14.82	0.0	0.3913	0.0	0.3913	0.0	LOT 111 EASTRIDGE UNIT 3 MOR S-68
466-320-017-000	Assessable	17.08	17.09	0.0	0.4513	0.0	0.4513	0.0	LOT 112 EASTRIDGE UNIT 3 MOR S-68
466-320-018-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 113 EASTRIDGE UNIT 3 MOR S-68
466-320-019-000	Assessable	9.14	9.14	0.0	0.2413	0.0	0.2413	0.0	LOT 114 EASTRIDGE UNIT 3 MOR S-68
466-320-020-000	Assessable	9.50	9.51	0.0	0.2513	0.0	0.2513	0.0	LOT 115 EASTRIDGE UNIT 3 MOR S-68
466-320-021-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 116 EASTRIDGE UNIT 3 MOR S-68
466-320-022-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 117 EASTRIDGE UNIT 3 MOR S-68
466-320-023-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 118 EASTRIDGE UNIT 3 MOR S-68
466-320-024-000	Assessable	9.50	9.51	0.0	0.2513	0.0	0.2513	0.0	LOT 119 EASTRIDGE UNIT 3 MOR S-68
466-320-025-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 120 EASTRIDGE UNIT 3 MOR S-68
466-320-026-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 121 EASTRIDGE UNIT 3 MOR S-68
466-320-027-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 122 EASTRIDGE UNIT 3 MOR S-68
466-320-028-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 123 EASTRIDGE UNIT 3 MOR S-68
466-320-029-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 124 EASTRIDGE UNIT 3 MOR S-68
466-320-030-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 125 EASTRIDGE UNIT 3 MOR S-68
466-320-031-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 126 EASTRIDGE UNIT 3 MOR S-68
466-320-032-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 127 EASTRIDGE UNIT 3 MOR S-68
466-320-033-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 128 EASTRIDGE UNIT 3 MOR S-68
466-320-034-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 129 EASTRIDGE UNIT 3 MOR S-68
466-320-035-000	Assessable	8.76	8.76	0.0	0.2313	0.0	0.2313	0.0	LOT 130 EASTRIDGE UNIT 3 MOR S-68
466-320-036-000	Assessable	6.10	6.11	0.0	0.1613	0.0	0.1613	0.0	LOT 131 EASTRIDGE UNIT 3 MOR S-68
466-320-037-000	Assessable	6.10	6.11	0.0	0.1613	0.0	0.1613	0.0	LOT 132 EASTRIDGE UNIT 3 MOR S-68
466-320-038-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 133 EASTRIDGE UNIT 3 MOR S-68
466-320-039-000	Assessable	6.10	6.11	0.0	0.1613	0.0	0.1613	0.0	LOT 134 EASTRIDGE UNIT 3 MOR S-68
466-320-040-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 135 EASTRIDGE UNIT 3 MOR S-68
466-320-041-000	Assessable	6.86	6.86	0.0	0.1813	0.0	0.1813	0.0	LOT 136 EASTRIDGE UNIT 3 MOR S-68
466-320-042-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 137 EASTRIDGE UNIT 3 MOR S-68

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466-320-043-000	Assessable	9.14	9.14	0.0	0.2413	0.0	0.2413	0.0	LOT 138 EASTRIDGE UNIT 3 MOR S-68
466-320-044-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 139 EASTRIDGE UNIT 3 MOR S-68
466-320-045-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 140 EASTRIDGE UNIT 3 MOR S-68
466-320-046-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 141 EASTRIDGE UNIT 3 MOR S-68
466-320-047-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 142 EASTRIDGE UNIT 3 MOR S-68
466-320-048-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 143 EASTRIDGE UNIT 3 MOR S-68
466-320-049-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 144 EASTRIDGE UNIT 3 MOR S-68
466-320-050-000	Assessable	7.62	7.62	0.0	0.2013	0.0	0.2013	0.0	LOT 145 EASTRIDGE UNIT 3 MOR S-68
466-320-051-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 146 EASTRIDGE UNIT 3 MOR S-68
466-320-052-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 147 EASTRIDGE UNIT 3 MOR S-68
466-320-053-000	Assessable	7.24	7.24	0.0	0.1913	0.0	0.1913	0.0	LOT 148 EASTRIDGE UNIT 3 MOR S-68
466-320-054-000	Assessable	10.64	10.65	0.0	0.2813	0.0	0.2813	0.0	LOT 149 EASTRIDGE UNIT 3 MOR S-68
466-320-055-000	Assessable	9.50	9.51	0.0	0.2513	0.0	0.2513	0.0	LOT 150 EASTRIDGE UNIT 3 MOR S-68
466-320-056-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 151 EASTRIDGE UNIT 3 MOR S-68
466-320-057-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 152 EASTRIDGE UNIT 3 MOR S-68
466-320-058-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 153 EASTRIDGE UNIT 3 MOR S-68
466-320-059-000	Assessable	8.00	8.00	0.0	0.2113	0.0	0.2113	0.0	LOT 154 EASTRIDGE UNIT 3 MOR S-68
466-320-060-000	Assessable	8.38	8.38	0.0	0.2213	0.0	0.2213	0.0	LOT 155 EASTRIDGE UNIT 3 MOR S-68
466-320-061-000	Assessable	9.14	9.14	0.0	0.2413	0.0	0.2413	0.0	LOT 156 EASTRIDGE UNIT 3 MOR S-68
466-350-001-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 193 ASHLEY WOODS UNIT 4 MOR S-95
466-350-002-000	Assessable	9.80	9.81	0.0	0.2591	0.0	0.2591	0.0	LOT 194 ASHLEY WOODS UNIT 4 MOR S-95
466-350-003-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 195 ASHLEY WOODS UNIT 4 MOR S-95
466-350-004-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 196 ASHLEY WOODS UNIT 4 MOR S-95
466-350-005-000	Assessable	8.66	8.67	0.0	0.2291	0.0	0.2291	0.0	LOT 197 ASHLEY WOODS UNIT 4 MOR S-95
466-350-006-000	Assessable	10.94	10.95	0.0	0.2891	0.0	0.2891	0.0	LOT 198 ASHLEY WOODS UNIT 4 MOR S-95
466-350-007-000	Assessable	10.18	10.19	0.0	0.2691	0.0	0.2691	0.0	LOT 199 ASHLEY WOODS UNIT 4 MOR S-95
466-350-008-000	Assessable	7.92	7.92	0.0	0.2091	0.0	0.2091	0.0	LOT 200 ASHLEY WOODS UNIT 4 MOR S-95
466-350-009-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 201 ASHLEY WOODS UNIT 4 MOR S-95
466-350-010-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 202 ASHLEY WOODS UNIT 4 MOR S-95
466-350-011-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 203 ASHLEY WOODS UNIT 4 MOR S-95
466-350-012-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 204 ASHLEY WOODS UNIT 4 MOR S-95
466-350-013-000	Assessable	9.42	9.43	0.0	0.2491	0.0	0.2491	0.0	LOT 205 ASHLEY WOODS UNIT 4 MOR S-95
466-350-014-000	Assessable	7.54	7.54	0.0	0.1991	0.0	0.1991	0.0	LOT 206 ASHLEY WOODS UNIT 4 MOR S-95
466-350-015-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 207 ASHLEY WOODS UNIT 4 MOR S-95
466-350-016-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 208 ASHLEY WOODS UNIT 4 MOR S-95
466-350-017-000	Assessable	8.30	8.30	0.0	0.2191	0.0	0.2191	0.0	LOT 209 ASHLEY WOODS UNIT 4 MOR S-95
466-350-018-000	Assessable	7.54	7.54	0.0	0.1991	0.0	0.1991	0.0	LOT 210 ASHLEY WOODS UNIT 4 MOR S-95
466-350-019-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 211 ASHLEY WOODS UNIT 4 MOR S-95
466-350-020-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 212 ASHLEY WOODS UNIT 4 MOR S-95
466-350-021-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 213 ASHLEY WOODS UNIT 4 MOR S-95
466-350-022-000	Assessable	9.04	9.05	0.0	0.2391	0.0	0.2391	0.0	LOT 214 ASHLEY WOODS UNIT 4 MOR S-95
466-350-023-000	Assessable	10.18	10.19	0.0	0.2691	0.0	0.2691	0.0	LOT 215 ASHLEY WOODS UNIT 4 MOR S-95
466-350-024-000	Assessable	8.30	8.30	0.0	0.2191	0.0	0.2191	0.0	LOT 216 ASHLEY WOODS UNIT 4 MOR S-95
466-350-025-000	Assessable	9.04	9.05	0.0	0.2391	0.0	0.2391	0.0	LOT 217 ASHLEY WOODS UNIT 4 MOR S-95
466-350-026-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 218 ASHLEY WOODS UNIT 4 MOR S-95
466-350-027-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 219 ASHLEY WOODS UNIT 4 MOR S-95

City of Roseville
Johnson Ranch Landscaping & Lighting District
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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-360-001-000	Assessable	7.54	7.54	0.0	0.1991	0.0	0.1991	0.0	LOT 140 ASHLEY WOODS UNIT 4 MOR S-95
466-360-002-000	Assessable	7.92	7.92	0.0	0.2091	0.0	0.2091	0.0	LOT 141 ASHLEY WOODS UNIT 4 MOR S-95
466-360-003-000	Assessable	8.66	8.67	0.0	0.2291	0.0	0.2291	0.0	LOT 142 ASHLEY WOODS UNIT 4 MOR S-95
466-360-004-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 143 ASHLEY WOODS UNIT 4 MOR S-95
466-360-005-000	Assessable	7.54	7.54	0.0	0.1991	0.0	0.1991	0.0	LOT 144 ASHLEY WOODS UNIT 4 MOR S-95
466-360-006-000	Assessable	8.66	8.67	0.0	0.2291	0.0	0.2291	0.0	LOT 145 ASHLEY WOODS UNIT 4 MOR S-95
466-360-007-000	Assessable	9.80	9.81	0.0	0.2591	0.0	0.2591	0.0	LOT 146 ASHLEY WOODS UNIT 4 MOR S-95
466-360-008-000	Assessable	10.18	10.19	0.0	0.2691	0.0	0.2691	0.0	LOT 147 ASHLEY WOODS UNIT 4 MOR S-95
466-360-009-000	Assessable	8.66	8.67	0.0	0.2291	0.0	0.2291	0.0	LOT 148 ASHLEY WOODS UNIT 4 MOR S-95
466-360-010-000	Assessable	8.30	8.30	0.0	0.2191	0.0	0.2191	0.0	LOT 149 ASHLEY WOODS UNIT 4 MOR S-95
466-360-011-000	Assessable	7.92	7.92	0.0	0.2091	0.0	0.2091	0.0	LOT 164 ASHLEY WOODS UNIT 4 MOR S-95
466-360-012-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 165 ASHLEY WOODS UNIT 4 MOR S-95
466-360-013-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 166 ASHLEY WOODS UNIT 4 MOR S-95
466-360-014-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 167 ASHLEY WOODS UNIT 4 MOR S-95
466-360-015-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 168 ASHLEY WOODS UNIT 4 MOR S-95
466-360-016-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 169 ASHLEY WOODS UNIT 4 MOR S-95
466-360-017-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 170 ASHLEY WOODS UNIT 4 MOR S-95
466-360-018-000	Assessable	7.92	7.92	0.0	0.2091	0.0	0.2091	0.0	LOT 171 ASHLEY WOODS UNIT 4 MOR S-95
466-360-019-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 172 ASHLEY WOODS UNIT 4 MOR S-95
466-360-020-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 173 ASHLEY WOODS UNIT 4 MOR S-95
466-360-021-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 174 ASHLEY WOODS UNIT 4 MOR S-95
466-360-022-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 175 ASHLEY WOODS UNIT 4 MOR S-95
466-360-023-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 176 ASHLEY WOODS UNIT 4 MOR S-95
466-360-024-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 177 ASHLEY WOODS UNIT 4 MOR S-95
466-360-025-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 178 ASHLEY WOODS UNIT 4 MOR S-95
466-360-026-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 179 ASHLEY WOODS UNIT 4 MOR S-95
466-360-027-000	Assessable	7.54	7.54	0.0	0.1991	0.0	0.1991	0.0	LOT 180 ASHLEY WOODS UNIT 4 MOR S-95
466-360-028-000	Assessable	9.04	9.05	0.0	0.2391	0.0	0.2391	0.0	LOT 183 ASHLEY WOODS UNIT 4 MOR S-95
466-360-029-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 184 ASHLEY WOODS UNIT 4 MOR S-95
466-360-030-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 185 ASHLEY WOODS UNIT 4 MOR S-95
466-360-031-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 186 ASHLEY WOODS UNIT 4 MOR S-95
466-360-032-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 187 ASHLEY WOODS UNIT 4 MOR S-95
466-360-033-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 188 ASHLEY WOODS UNIT 4 MOR S-95
466-360-034-000	Assessable	9.42	9.43	0.0	0.2491	0.0	0.2491	0.0	LOT 189 ASHLEY WOODS UNIT 4 MOR S-95
466-360-035-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 190 ASHLEY WOODS UNIT 4 MOR S-95
466-360-036-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 191 ASHLEY WOODS UNIT 4 MOR S-95
466-360-037-000	Assessable	7.92	7.92	0.0	0.2091	0.0	0.2091	0.0	LOT 192 ASHLEY WOODS UNIT 4 MOR S-95
466-360-038-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 220 ASHLEY WOODS UNIT 4 MOR S-95
466-370-001-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 150 ASHLEY WOODS UNIT 4 MOR S-95
466-370-002-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 151 ASHLEY WOODS UNIT 4 MOR S-95
466-370-003-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 152 ASHLEY WOODS UNIT 4 MOR S-95
466-370-004-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 153 ASHLEY WOODS UNIT 4 MOR S-95
466-370-005-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 154 ASHLEY WOODS UNIT 4 MOR S-95
466-370-006-000	Assessable	6.40	6.40	0.0	0.1691	0.0	0.1691	0.0	LOT 155 ASHLEY WOODS UNIT 4 MOR S-95
466-370-007-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 156 ASHLEY WOODS UNIT 4 MOR S-95
466-370-008-000	Assessable	7.16	7.16	0.0	0.1891	0.0	0.1891	0.0	LOT 157 ASHLEY WOODS UNIT 4 MOR S-95

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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-370-009-000	Assessable	28.36	28.36	0.0	0.7491	0.0	0.7491	0.0	LOT 158 ASHLEY WOODS UNIT 4 MOR S-95
466-370-010-000	Assessable	12.46	12.46	0.0	0.3291	0.0	0.3291	0.0	LOT 159 ASHLEY WOODS UNIT 4 MOR S-95
466-370-011-000	Assessable	10.94	10.95	0.0	0.2891	0.0	0.2891	0.0	LOT 160 ASHLEY WOODS UNIT 4 MOR S-95
466-370-012-000	Assessable	7.54	7.54	0.0	0.1991	0.0	0.1991	0.0	LOT 161 ASHLEY WOODS UNIT 4 MOR S-95
466-370-013-000	Assessable	9.04	9.05	0.0	0.2391	0.0	0.2391	0.0	LOT 162 ASHLEY WOODS UNIT 4 MOR S-95
466-370-014-000	Assessable	9.84	9.84	0.0	0.26	0.0	0.26	0.0	LOT 163 ASHLEY WOODS UNIT 4 MOR S-95
466-370-015-000	Assessable	6.78	6.78	0.0	0.1791	0.0	0.1791	0.0	LOT 181 ASHLEY WOODS UNIT 4 MOR S-95
466-370-016-000	Assessable	8.30	8.30	0.0	0.2191	0.0	0.2191	0.0	LOT 182 ASHLEY WOODS UNIT 4 MOR S-95
466-390-001-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 161 EASTRIDGE UNIT NO 4 T-11
466-390-002-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 162 EASTRIDGE UNIT NO 4 T-11
466-390-003-000	Assessable	7.56	7.57	0.0	0.2	0.0	0.2	0.0	LOT 163 EASTRIDGE UNIT NO 4 T-11
466-390-004-000	Assessable	8.70	8.71	0.0	0.23	0.0	0.23	0.0	LOT 164 EASTRIDGE UNIT NO 4 T-11
466-390-005-000	Assessable	7.56	7.57	0.0	0.2	0.0	0.2	0.0	LOT 165 EASTRIDGE UNIT NO 4 T-11
466-390-006-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 166 EASTRIDGE UNIT NO 4 T-11
466-390-007-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 167 EASTRIDGE UNIT NO 4 T-11
466-390-008-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 168 EASTRIDGE UNIT NO 4 T-11
466-390-009-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 169 EASTRIDGE UNIT NO 4 T-11
466-390-010-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 170 EASTRIDGE UNIT NO 4 T-11
466-390-011-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 171 EASTRIDGE UNIT NO 4 T-11
466-390-012-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 172 EASTRIDGE UNIT NO 4 T-11
466-390-013-000	Assessable	9.08	9.09	0.0	0.24	0.0	0.24	0.0	LOT 173 EASTRIDGE UNIT NO 4 T-11
466-390-014-000	Assessable	9.08	9.09	0.0	0.24	0.0	0.24	0.0	LOT 174 EASTRIDGE UNIT NO 4 T-11
466-390-017-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 177 EASTRIDGE UNIT NO 4 T-11
466-390-018-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 178 EASTRIDGE UNIT NO 4 T-11
466-390-019-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 179 EASTRIDGE UNIT NO 4 T-11
466-390-020-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 180 EASTRIDGE UNIT NO 4 T-11
466-390-021-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 181 EASTRIDGE UNIT NO 4 T-11
466-390-022-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 182 EASTRIDGE UNIT NO 4 T-11
466-390-023-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 198 EASTRIDGE UNIT NO 4 T-11
466-390-024-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 199 EASTRIDGE UNIT NO 4 T-11
466-390-025-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 200 EASTRIDGE UNIT NO 4 T-11
466-390-026-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 201 EASTRIDGE UNIT NO 4 T-11
466-390-027-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 202 EASTRIDGE UNIT NO 4 T-11
466-390-028-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 203 EASTRIDGE UNIT NO 4 T-11
466-390-029-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 204 EASTRIDGE UNIT NO 4 T-11
466-390-030-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 205 EASTRIDGE UNIT NO 4 T-11
466-390-031-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 206 EASTRIDGE UNIT NO 4 T-11
466-390-032-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 207 EASTRIDGE UNIT NO 4 T-11
466-390-034-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 224 EASTRIDGE UNIT NO 4 T-11
466-390-035-000	Assessable	8.70	8.71	0.0	0.23	0.0	0.23	0.0	LOT 225 EASTRIDGE UNIT NO 4 T-11
466-390-036-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 226 EASTRIDGE UNIT NO 4 T-11
466-390-037-000	Assessable	9.84	9.84	0.0	0.26	0.0	0.26	0.0	LOT 227 EASTRIDGE UNIT NO 4 T-11
466-390-038-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 228 EASTRIDGE UNIT NO 4 T-11
466-390-039-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 229 EASTRIDGE UNIT NO 4 T-11
466-390-040-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 230 EASTRIDGE UNIT NO 4 T-11
466-390-041-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 231 EASTRIDGE UNIT NO 4 T-11

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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-390-043-000	Assessable	12.12	12.12	0.0	0.32	0.0	0.32	0.0	POR LOT 175 EASTRIDGE UNIT NO 4 T-11
466-390-045-000	Assessable	11.74	11.74	0.0	0.31	0.0	0.31	0.0	LOT 176 & POR LOT 175 EASTRIDGE UNIT NO 4 T-11
466-400-001-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 157 EASTRIDGE UNIT NO 4 T-11
466-400-002-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 158 EASTRIDGE UNIT NO 4 T-11
466-400-003-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 159 EASTRIDGE UNIT NO 4 T-11
466-400-004-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 160 EASTRIDGE UNIT NO 4 T-11
466-400-005-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 183 EASTRIDGE UNIT NO 4 T-11
466-400-006-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 184 EASTRIDGE UNIT NO 4 T-11
466-400-007-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 185 EASTRIDGE UNIT NO 4 T-11
466-400-008-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 186 EASTRIDGE UNIT NO 4 T-11
466-400-009-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 187 EASTRIDGE UNIT NO 4 T-11
466-400-010-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 188 EASTRIDGE UNIT NO 4 T-11
466-400-011-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 189 EASTRIDGE UNIT NO 4 MOR T-11
466-400-012-000	Assessable	9.46	9.47	0.0	0.25	0.0	0.25	0.0	LOT 190 EASTRIDGE UNIT NO 4 T-11
466-400-013-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 191 EASTRIDGE UNIT NO 4 T-11
466-400-014-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 192 EASTRIDGE UNIT NO 4 T-11
466-400-015-000	Assessable	7.56	7.57	0.0	0.2	0.0	0.2	0.0	LOT 193 EASTRIDGE UNIT NO 4 T-11
466-400-016-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 194 EASTRIDGE UNIT NO 4 T-11
466-400-017-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 195 EASTRIDGE UNIT NO 4 T-11
466-400-018-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 196 EASTRIDGE UNIT NO 4 T-11
466-400-019-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 197 EASTRIDGE UNIT NO 4 T-11
466-400-020-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 208 EASTRIDGE UNIT NO 4 T-11
466-400-021-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 209 EASTRIDGE UNIT NO 4 T-11
466-400-022-000	Assessable	6.44	6.44	0.0	0.17	0.0	0.17	0.0	LOT 210 EASTRIDGE UNIT NO 4 T-11
466-400-023-000	Assessable	6.82	6.82	0.0	0.18	0.0	0.18	0.0	LOT 211 EASTRIDGE UNIT NO 4 T-11
466-400-024-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 212 EASTRIDGE UNIT NO 4 T-11
466-400-025-000	Assessable	8.70	8.71	0.0	0.23	0.0	0.23	0.0	LOT 213 EASTRIDGE UNIT NO 4 T-11
466-400-026-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 214 EASTRIDGE UNIT NO 4 T-11
466-400-027-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 215 EASTRIDGE UNIT NO 4 T-11
466-400-028-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 216 EASTRIDGE UNIT NO 4 T-11
466-400-029-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 217 EASTRIDGE UNIT NO 4 T-11
466-400-030-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 218 EASTRIDGE UNIT NO 4 T-11
466-400-031-000	Assessable	8.70	8.71	0.0	0.23	0.0	0.23	0.0	LOT 219 EASTRIDGE UNIT NO 4 T-11
466-400-032-000	Assessable	7.56	7.57	0.0	0.2	0.0	0.2	0.0	LOT 220 EASTRIDGE UNIT NO 4 T-11
466-400-033-000	Assessable	7.56	7.57	0.0	0.2	0.0	0.2	0.0	LOT 221 EASTRIDGE UNIT NO 4 T-11
466-400-034-000	Assessable	7.56	7.57	0.0	0.2	0.0	0.2	0.0	LOT 222 EASTRIDGE UNIT NO 4 T-11
466-400-035-000	Assessable	7.56	7.57	0.0	0.2	0.0	0.2	0.0	LOT 223 EASTRIDGE UNIT NO 4 T-11
466-400-036-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 232 EASTRIDGE UNIT NO 4 T-11
466-400-037-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 233 EASTRIDGE UNIT NO 4 T-11
466-400-038-000	Assessable	6.06	6.06	0.0	0.16	0.0	0.16	0.0	LOT 234 EASTRIDGE UNIT NO 4 T-11
466-400-039-000	Assessable	7.94	7.95	0.0	0.21	0.0	0.21	0.0	LOT 235 EASTRIDGE UNIT NO 4 T-11
466-400-040-000	Assessable	7.56	7.57	0.0	0.2	0.0	0.2	0.0	LOT 236 EASTRIDGE UNIT NO 4 T-11
466-410-003-000	Assessable	20.44	20.45	0.0	0.54	0.0	0.54	0.0	LOT 83 ASHLEY WOODS UNIT 2 T-13
466-410-004-000	Assessable	16.66	16.66	0.0	0.44	0.0	0.44	0.0	LOT 84 ASHLEY WOODS UNIT 2 T-13
466-410-005-000	Assessable	14.00	14.01	0.0	0.37	0.0	0.37	0.0	LOT 85 ASHLEY WOODS UNIT 2 T-13
466-410-006-000	Assessable	12.48	12.49	0.0	0.33	0.0	0.33	0.0	LOT 86 ASHLEY WOODS UNIT 2 T-13

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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-410-007-000	Assessable	16.28	16.28	0.0	0.43	0.0	0.43	0.0	LOT 87 ASHLEY WOODS UNIT 2 T-13
466-410-008-000	Assessable	11.74	11.74	0.0	0.31	0.0	0.31	0.0	LOT 88 ASHLEY WOODS UNIT 2 T-13
466-410-009-000	Assessable	13.24	13.25	0.0	0.35	0.0	0.35	0.0	LOT 89 ASHLEY WOODS UNIT 2 T-13
466-410-010-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 90 ASHLEY WOODS UNIT 2 T-13
466-410-011-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 91 ASHLEY WOODS UNIT 2 T-13
466-410-012-000	Assessable	7.18	7.19	0.0	0.19	0.0	0.19	0.0	LOT 92 ASHLEY WOODS UNIT 2 T-13
466-410-013-000	Assessable	8.70	8.71	0.0	0.23	0.0	0.23	0.0	LOT 93 ASHLEY WOODS UNIT 2 T-13
466-410-014-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 94 ASHLEY WOODS UNIT 2 T-13
466-410-015-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 95 ASHLEY WOODS UNIT 2 T-13
466-410-016-000	Assessable	9.46	9.47	0.0	0.25	0.0	0.25	0.0	LOT 96 ASHLEY WOODS UNIT 2 T-13
466-410-018-000	Assessable	16.66	16.66	0.0	0.44	0.0	0.44	0.0	LOT 98 ASHLEY WOODS UNIT 2 T-13
466-410-019-000	Assessable	9.46	9.47	0.0	0.25	0.0	0.25	0.0	LOT 99 ASHLEY WOODS UNIT 2 T-13
466-410-020-000	Assessable	7.56	7.57	0.0	0.2	0.0	0.2	0.0	LOT 100 ASHLEY WOODS UNIT 2 T-13
466-410-021-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 101 ASHLEY WOODS UNIT 2 T-13
466-410-022-000	Assessable	8.32	8.33	0.0	0.22	0.0	0.22	0.0	LOT 102 ASHLEY WOODS UNIT 2 T-13
466-410-023-000	Assessable	11.74	11.74	0.0	0.31	0.0	0.31	0.0	LOT 103 ASHLEY WOODS UNIT 2 T-13
466-410-024-000	Assessable	12.48	12.49	0.0	0.33	0.0	0.33	0.0	LOT 104 ASHLEY WOODS UNIT 2 T-13
466-410-025-000	Assessable	9.08	9.09	0.0	0.24	0.0	0.24	0.0	LOT 105 ASHLEY WOODS UNIT 2 T-13
466-410-034-000	Common	-	-	0.0	0.0	0.0	0.0	0.0	POR LOT C OPEN SPACE ASHLEY WOOD #2
466-410-036-000	Assessable	23.10	23.10	0.0	0.61	0.0	0.61	0.0	POR LOT 97 ASHLEY WOODS UNIT 2 T-13
466-410-041-000	Assessable	17.04	17.04	0.0	0.45	0.0	0.45	0.0	POR LOT 106 ASHLEY WOODS UNIT 2 T-13
466-410-043-000	Assessable	16.66	16.66	0.0	0.44	0.0	0.44	0.0	L82ASHLEY WOODS UN2T-13&P L J PUB UTLTY ESMT T-13
466-410-044-000	Assessable	10.98	10.98	0.0	0.29	0.0	0.29	0.0	L81ASHLEY WOODS UN2T-13&P L J PUB UTLTY ESMT T-13
466-490-001-000	Assessable	7.58	7.58	0.0	0.2132	0.0	0.0	0.0	LOT 223 HILLSBOROUGH UNIT NO 2A T-47
466-490-002-000	Assessable	8.40	8.40	0.0	0.2362	0.0	0.0	0.0	LOT 224 HILLSBOROUGH UNIT NO 2A T-47
466-490-003-000	Assessable	9.44	9.44	0.0	0.2654	0.0	0.0	0.0	LOT 225 HILLSBOROUGH UNIT NO 2A T-47
466-490-004-000	Assessable	11.76	11.77	0.0	0.3309	0.0	0.0	0.0	LOT 226 HILLSBOROUGH UNIT NO 2A T-47
466-490-005-000	Assessable	9.04	9.04	0.0	0.2541	0.0	0.0	0.0	LOT 227 HILLSBOROUGH UNIT NO 2A T-47
466-490-006-000	Assessable	8.94	8.95	0.0	0.2516	0.0	0.0	0.0	LOT 228 HILLSBOROUGH UNIT NO 2A T-47
466-490-007-000	Assessable	9.84	9.84	0.0	0.2768	0.0	0.0	0.0	LOT 229 HILLSBOROUGH UNIT NO 2A T-47
466-490-008-000	Assessable	12.34	12.35	0.0	0.3473	0.0	0.0	0.0	LOT 230 HILLSBOROUGH UNIT NO 2A T-47
466-490-009-000	Assessable	11.16	11.16	0.0	0.3137	0.0	0.0	0.0	LOT 231 HILLSBOROUGH UNIT NO 2A T-47
466-490-010-000	Assessable	9.46	9.47	0.0	0.2663	0.0	0.0	0.0	LOT 232 HILLSBOROUGH UNIT NO 2A T-47
466-490-011-000	Assessable	10.48	10.48	0.0	0.2947	0.0	0.0	0.0	LOT 233 HILLSBOROUGH UNIT NO 2A T-47
466-490-012-000	Assessable	13.96	13.96	0.0	0.3925	0.0	0.0	0.0	LOT 234 HILLSBOROUGH UNIT NO 2A T-47
466-490-013-000	Assessable	9.52	9.52	0.0	0.2676	0.0	0.0	0.0	LOT 235 HILLSBOROUGH UNIT NO 2A T-47
466-490-014-000	Assessable	9.08	9.09	0.0	0.2557	0.0	0.0	0.0	LOT 236 HILLSBOROUGH UNIT NO 2A T-47
466-490-015-000	Assessable	8.14	8.15	0.0	0.2291	0.0	0.0	0.0	LOT 237 HILLSBOROUGH UNIT NO 2A T-47
466-490-016-000	Assessable	10.56	10.57	0.0	0.2973	0.0	0.0	0.0	LOT 238 HILLSBOROUGH UNIT NO 2A T-47
466-490-017-000	Assessable	7.74	7.74	0.0	0.2176	0.0	0.0	0.0	LOT 239 HILLSBOROUGH UNIT NO 2A T-47
466-490-018-000	Assessable	9.54	9.55	0.0	0.2686	0.0	0.0	0.0	LOT 240 HILLSBOROUGH UNIT NO 2A T-47
466-490-019-000	Assessable	7.44	7.45	0.0	0.2094	0.0	0.0	0.0	LOT 241 HILLSBOROUGH UNIT NO 2A T-47
466-490-020-000	Assessable	7.54	7.55	0.0	0.2123	0.0	0.0	0.0	LOT 242 HILLSBOROUGH UNIT NO 2A T-47
466-490-021-000	Assessable	16.86	16.86	0.0	0.4742	0.0	0.0	0.0	LOT 269 HILLSBOROUGH UNIT NO 2A T-47
466-490-022-000	Assessable	12.96	12.97	0.0	0.3647	0.0	0.0	0.0	LOT 270 HILLSBOROUGH UNIT NO 2A T-47
466-490-023-000	Assessable	10.08	10.08	0.0	0.2836	0.0	0.0	0.0	LOT 271 HILLSBOROUGH UNIT NO 2A T-47

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ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-490-024-000	Assessable	11.80	11.80	0.0	0.3319	0.0	0.0	0.0	LOT 272 HILLSBOROUGH UNIT NO 2A T-47
466-490-025-000	Assessable	9.80	9.81	0.0	0.2759	0.0	0.0	0.0	LOT 273 HILLSBOROUGH UNIT NO 2A T-47
466-490-026-000	Assessable	8.48	8.49	0.0	0.2387	0.0	0.0	0.0	LOT 274 HILLSBOROUGH UNIT NO 2A T-47
466-490-027-000	Assessable	8.46	8.47	0.0	0.2383	0.0	0.0	0.0	LOT 275 HILLSBOROUGH UNIT NO 2A T-47
466-490-028-000	Assessable	7.74	7.74	0.0	0.2176	0.0	0.0	0.0	LOT 276 HILLSBOROUGH UNIT NO 2A T-47
466-490-029-000	Assessable	7.80	7.81	0.0	0.2197	0.0	0.0	0.0	LOT 277 HILLSBOROUGH UNIT NO 2A T-47
466-490-030-000	Assessable	7.84	7.85	0.0	0.2207	0.0	0.0	0.0	LOT 278 HILLSBOROUGH UNIT NO 2A T-47
466-490-031-000	Assessable	7.66	7.66	0.0	0.2154	0.0	0.0	0.0	LOT 279 HILLSBOROUGH UNIT NO 2A T-47
466-490-032-000	Assessable	7.56	7.56	0.0	0.2125	0.0	0.0	0.0	LOT 280 HILLSBOROUGH UNIT NO 2A T-47
466-490-033-000	Assessable	7.62	7.62	0.0	0.2142	0.0	0.0	0.0	LOT 281 HILLSBOROUGH UNIT NO 2A T-47
466-490-034-000	Assessable	8.88	8.89	0.0	0.25	0.0	0.0	0.0	LOT 282 HILLSBOROUGH UNIT NO 2A T-47
466-500-001-000	Assessable	13.12	13.13	0.0	0.3691	0.0	0.0	0.0	LOT 207 HILLSBOROUGH UNIT NO 2A T-47
466-500-002-000	Assessable	10.44	10.45	0.0	0.2939	0.0	0.0	0.0	LOT 208 HILLSBOROUGH UNIT NO 2A T-47
466-500-003-000	Assessable	8.04	8.05	0.0	0.2265	0.0	0.0	0.0	LOT 209 HILLSBOROUGH UNIT NO 2A T-47
466-500-004-000	Assessable	7.58	7.59	0.0	0.2134	0.0	0.0	0.0	LOT 210 HILLSBOROUGH UNIT NO 2A T-47
466-500-005-000	Assessable	7.58	7.59	0.0	0.2134	0.0	0.0	0.0	LOT 211 HILLSBOROUGH UNIT NO 2A T-47
466-500-006-000	Assessable	7.58	7.59	0.0	0.2134	0.0	0.0	0.0	LOT 212 HILLSBOROUGH UNIT NO 2A T-47
466-500-007-000	Assessable	7.58	7.59	0.0	0.2134	0.0	0.0	0.0	LOT 213 HILLSBOROUGH UNIT NO 2A T-47
466-500-008-000	Assessable	7.58	7.59	0.0	0.2134	0.0	0.0	0.0	LOT 214 HILLSBOROUGH UNIT NO 2A T-47
466-500-009-000	Assessable	7.58	7.59	0.0	0.2135	0.0	0.0	0.0	LOT 215 HILLSBOROUGH UNIT NO 2A T-47
466-500-010-000	Assessable	7.56	7.56	0.0	0.2126	0.0	0.0	0.0	LOT 216 HILLSBOROUGH UNIT NO 2A T-47
466-500-011-000	Assessable	12.24	12.25	0.0	0.3446	0.0	0.0	0.0	LOT 217 HILLSBOROUGH UNIT NO 2A T-47
466-500-012-000	Assessable	8.64	8.64	0.0	0.2431	0.0	0.0	0.0	LOT 218 HILLSBOROUGH UNIT NO 2A T-47
466-500-013-000	Assessable	7.58	7.58	0.0	0.2133	0.0	0.0	0.0	LOT 219 HILLSBOROUGH UNIT NO 2A T-47
466-500-014-000	Assessable	7.42	7.42	0.0	0.2088	0.0	0.0	0.0	LOT 220 HILLSBOROUGH UNIT NO 2A T-47
466-500-015-000	Assessable	7.16	7.16	0.0	0.2013	0.0	0.0	0.0	LOT 221 HILLSBOROUGH UNIT NO 2A T-47
466-500-016-000	Assessable	7.70	7.70	0.0	0.2165	0.0	0.0	0.0	LOT 222 HILLSBOROUGH UNIT NO 2A T-47
466-500-017-000	Assessable	10.82	10.82	0.0	0.3043	0.0	0.0	0.0	LOT 243 HILLSBOROUGH UNIT NO 2A T-47
466-500-018-000	Assessable	9.64	9.65	0.0	0.2714	0.0	0.0	0.0	LOT 244 HILLSBOROUGH UNIT NO 2A T-47
466-500-019-000	Assessable	12.00	12.01	0.0	0.3377	0.0	0.0	0.0	LOT 245 HILLSBOROUGH UNIT NO 2A T-47
466-500-020-000	Assessable	10.58	10.59	0.0	0.2977	0.0	0.0	0.0	LOT 246 HILLSBOROUGH UNIT NO 2A T-47
466-500-021-000	Assessable	8.32	8.32	0.0	0.2341	0.0	0.0	0.0	LOT 247 HILLSBOROUGH UNIT NO 2A T-47
466-500-022-000	Assessable	7.62	7.63	0.0	0.2146	0.0	0.0	0.0	LOT 248 HILLSBOROUGH UNIT NO 2A T-47
466-500-023-000	Assessable	9.10	9.10	0.0	0.2558	0.0	0.0	0.0	LOT 249 HILLSBOROUGH UNIT NO 2A T-47
466-500-024-000	Assessable	8.82	8.83	0.0	0.2484	0.0	0.0	0.0	LOT 250 HILLSBOROUGH UNIT NO 2A T-47
466-500-025-000	Assessable	7.60	7.60	0.0	0.2136	0.0	0.0	0.0	LOT 251 HILLSBOROUGH UNIT NO 2A T-47
466-500-026-000	Assessable	10.46	10.47	0.0	0.2945	0.0	0.0	0.0	LOT 252 HILLSBOROUGH UNIT NO 2A T-47
466-500-027-000	Assessable	8.24	8.25	0.0	0.2321	0.0	0.0	0.0	LOT 253 HILLSBOROUGH UNIT NO 2A T-47
466-500-028-000	Assessable	8.30	8.31	0.0	0.2338	0.0	0.0	0.0	LOT 254 HILLSBOROUGH UNIT NO 2A T-47
466-500-029-000	Assessable	7.54	7.54	0.0	0.2121	0.0	0.0	0.0	LOT 255 HILLSBOROUGH UNIT NO 2A T-47
466-500-030-000	Assessable	7.82	7.82	0.0	0.2199	0.0	0.0	0.0	LOT 256 HILLSBOROUGH UNIT NO 2A T-47
466-500-031-000	Assessable	10.78	10.78	0.0	0.3032	0.0	0.0	0.0	LOT 257 HILLSBOROUGH UNIT NO 2A T-47
466-500-032-000	Assessable	8.32	8.32	0.0	0.2339	0.0	0.0	0.0	LOT 258 HILLSBOROUGH UNIT NO 2A T-47
466-500-033-000	Assessable	8.00	8.00	0.0	0.2251	0.0	0.0	0.0	LOT 267 HILLSBOROUGH UNIT NO 2A T-47
466-500-034-000	Assessable	10.06	10.07	0.0	0.2833	0.0	0.0	0.0	LOT 268 HILLSBOROUGH UNIT NO 2A T-47
466-520-001-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 181 HILLSBOROUGH UNIT NO 2B T-86

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466-520-002-000	Assessable	9.42	9.42	0.0	0.265	0.0	0.0	0.0	LOT 182 HILLSBOROUGH UNIT NO 2B T-86
466-520-003-000	Assessable	9.42	9.42	0.0	0.265	0.0	0.0	0.0	LOT 183 HILLSBOROUGH UNIT NO 2B T-86
466-520-004-000	Assessable	10.02	10.03	0.0	0.282	0.0	0.0	0.0	LOT 184 HILLSBOROUGH UNIT NO 2B T-86
466-520-005-000	Assessable	7.54	7.54	0.0	0.212	0.0	0.0	0.0	LOT 185 HILLSBOROUGH UNIT NO 2B T-86
466-520-006-000	Assessable	11.12	11.12	0.0	0.3127	0.0	0.0	0.0	LOT 186 HILLSBOROUGH UNIT NO 2B T-86
466-520-007-000	Assessable	11.30	11.31	0.0	0.318	0.0	0.0	0.0	LOT 187 HILLSBOROUGH UNIT NO 2B T-86
466-520-008-000	Assessable	10.18	10.18	0.0	0.2862	0.0	0.0	0.0	LOT 188 HILLSBOROUGH UNIT NO 2B T-86
466-520-009-000	Assessable	11.30	11.31	0.0	0.318	0.0	0.0	0.0	LOT 189 HILLSBOROUGH UNIT NO 2B T-86
466-520-010-000	Assessable	7.54	7.54	0.0	0.212	0.0	0.0	0.0	LOT 190 HILLSBOROUGH UNIT NO 2B T-86
466-520-011-000	Assessable	11.30	11.31	0.0	0.318	0.0	0.0	0.0	LOT 283 HILLSBOROUGH UNIT NO 2B T-86
466-520-012-000	Assessable	7.92	7.92	0.0	0.2226	0.0	0.0	0.0	LOT 284 HILLSBOROUGH UNIT NO 2B T-86
466-520-013-000	Assessable	9.20	9.20	0.0	0.2586	0.0	0.0	0.0	LOT 285 HILLSBOROUGH UNIT NO 2B T-86
466-520-014-000	Assessable	11.30	11.31	0.0	0.318	0.0	0.0	0.0	LOT 286 HILLSBOROUGH UNIT NO 2B T-86
466-520-015-000	Assessable	10.18	10.18	0.0	0.2862	0.0	0.0	0.0	LOT 287 HILLSBOROUGH UNIT NO 2B T-86
466-520-016-000	Assessable	8.66	8.67	0.0	0.2438	0.0	0.0	0.0	LOT 288 HILLSBOROUGH UNIT NO 2B T-86
466-520-017-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 289 HILLSBOROUGH UNIT NO 2B T-86
466-520-018-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 290 HILLSBOROUGH UNIT NO 2B T-86
466-520-019-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 291 HILLSBOROUGH UNIT NO 2B T-86
466-520-020-000	Assessable	7.92	7.92	0.0	0.2226	0.0	0.0	0.0	LOT 292 HILLSBOROUGH UNIT NO 2B T-86
466-520-021-000	Assessable	8.28	8.29	0.0	0.2332	0.0	0.0	0.0	LOT 293 HILLSBOROUGH UNIT NO 2B T-86
466-520-022-000	Assessable	8.66	8.67	0.0	0.2438	0.0	0.0	0.0	LOT 294 HILLSBOROUGH UNIT NO 2B T-86
466-520-023-000	Assessable	6.02	6.03	0.0	0.1696	0.0	0.0	0.0	LOT 295 HILLSBOROUGH UNIT NO 2B T-86
466-520-024-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 296 HILLSBOROUGH UNIT NO 2B T-86
466-520-025-000	Assessable	7.16	7.16	0.0	0.2014	0.0	0.0	0.0	LOT 297 HILLSBOROUGH UNIT NO 2B T-86
466-530-001-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 191 HILLSBOROUGH UNIT NO 2B T-86
466-530-002-000	Assessable	6.60	6.60	0.0	0.1855	0.0	0.0	0.0	LOT 192 HILLSBOROUGH UNIT NO 2B T-86
466-530-003-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 193 HILLSBOROUGH UNIT NO 2B T-86
466-530-004-000	Assessable	8.66	8.67	0.0	0.2438	0.0	0.0	0.0	LOT 194 HILLSBOROUGH UNIT NO 2B T-86
466-530-005-000	Assessable	8.28	8.29	0.0	0.2332	0.0	0.0	0.0	LOT 195 HILLSBOROUGH UNIT NO 2B T-86
466-530-006-000	Assessable	7.92	7.92	0.0	0.2226	0.0	0.0	0.0	LOT 196 HILLSBOROUGH UNIT NO 2B T-86
466-530-007-000	Assessable	7.54	7.54	0.0	0.212	0.0	0.0	0.0	LOT 197 HILLSBOROUGH UNIT NO 2B T-86
466-530-008-000	Assessable	7.54	7.54	0.0	0.212	0.0	0.0	0.0	LOT 198 HILLSBOROUGH UNIT NO 2B T-86
466-530-009-000	Assessable	7.54	7.54	0.0	0.212	0.0	0.0	0.0	LOT 199 HILLSBOROUGH UNIT NO 2B T-86
466-530-010-000	Assessable	7.92	7.92	0.0	0.2226	0.0	0.0	0.0	LOT 200 HILLSBOROUGH UNIT NO 2B T-86
466-530-011-000	Assessable	8.28	8.29	0.0	0.2332	0.0	0.0	0.0	LOT 201 HILLSBOROUGH UNIT NO 2B T-86
466-530-012-000	Assessable	7.92	7.92	0.0	0.2226	0.0	0.0	0.0	LOT 202 HILLSBOROUGH UNIT NO 2B T-86
466-530-013-000	Assessable	7.16	7.16	0.0	0.2014	0.0	0.0	0.0	LOT 203 HILLSBOROUGH UNIT NO 2B T-86
466-530-014-000	Assessable	7.16	7.16	0.0	0.2014	0.0	0.0	0.0	LOT 204 HILLSBOROUGH UNIT NO 2B T-86
466-530-015-000	Assessable	7.92	7.92	0.0	0.2226	0.0	0.0	0.0	LOT 205 HILLSBOROUGH UNIT NO 2B T-86
466-530-016-000	Assessable	8.28	8.29	0.0	0.2332	0.0	0.0	0.0	LOT 206 HILLSBOROUGH UNIT NO 2B T-86
466-530-017-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 259 HILLSBOROUGH UNIT NO 2B T-86
466-530-018-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 260 HILLSBOROUGH UNIT NO 2B T-86
466-530-019-000	Assessable	6.78	6.78	0.0	0.1908	0.0	0.0	0.0	LOT 261 HILLSBOROUGH UNIT NO 2B T-86
466-530-020-000	Assessable	6.40	6.41	0.0	0.1802	0.0	0.0	0.0	LOT 262 HILLSBOROUGH UNIT NO 2B T-86
466-530-021-000	Assessable	82.92	82.92	0.0	2.3319	0.0	0.0	0.0	LOT 263 HILLSBOROUGH UNIT NO 2B T-86
466-530-022-000	Assessable	86.68	86.69	0.0	2.4379	0.0	0.0	0.0	LOT 264 HILLSBOROUGH UNIT NO 2B T-86

City of Roseville
Johnson Ranch Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	ACRES ZONE A	ACRES ZONE B	ACRES ZONE C	ACRES ZONE D	ACRES ZONE E	LEGAL DESCRIPTION
466-530-023-000	Assessable	79.14	79.15	0.0	2.2259	0.0	0.0	0.0	LOT 265 HILLSBOROUGH UNIT NO 2B T-86
466-530-024-000	Assessable	7.16	7.16	0.0	0.2014	0.0	0.0	0.0	LOT 266 HILLSBOROUGH UNIT NO 2B T-86

Summary Fields	Value
ACTIVE PARCELS	1,060
LEVIED PARCELS	1,044
CHARGE	48,530.60
MAXIMUM ASMT	53,441.24
ACRES ZONE A	101.60
ACRES ZONE B	227.51
ACRES ZONE C	132.61
ACRES ZONE D	140.90
ACRES ZONE E	13.63

RESOLUTION NO. 20-150

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ENGINEER'S LEVY OF ASSESSMENTS FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE

The City Council of the City of Roseville, California (hereafter referred to as the "City Council") does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the North Central Roseville Specific Plan Landscaping and Lighting District (hereafter referred to as the "District") pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the "Act"), that provides for levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of street lighting, landscaping, and all appurtenant facilities and operations related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter "Engineer") for the purpose of assisting with the establishment of the assessments, the annexation of territory, and to prepare and file an Engineer's Annual Levy Report (hereinafter referred to as the "Engineer's Report") with the City Clerk in accordance with the act, and in accordance with the California Constitution, Articles XIII C and XIII D;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 Engineer's Report: The City Council hereby orders Willdan Financial Services to prepare the Engineer's Report concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22622* of the Act.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: the maintenance and operation of and the furnishing of services, materials or improvements for certain landscaped areas including open space areas, parkways, slopes, and medians and other public improvements within the street right of way areas, including, but not limited to trees, shrubs, turf and other ornamental vegetation, drainage and irrigation systems, and other appurtenant facilities. The Engineer's Report describes all new improvements or substantial changes in existing improvements.

RESOLUTION NO. 20-150

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-151

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the North Central Roseville Specific Plan Landscaping and Lighting District (hereafter referred to as the “District”), and initiated proceedings for Fiscal Year 2020/2021, pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”) that provides for the levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of all improvements and facilities related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services for the purpose of assisting with the Annual Levy of the District, and to prepare and file an Engineer’s Annual Levy Report (hereinafter referred to as the “Engineer’s Report”) with the City Clerk in accordance with the Act; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, PURSUANT TO CHAPTER 3, SECTION 22624 OF THE ACT, AS FOLLOWS:

Section 1 Intention: The City Council hereby declares that it is its intention to seek the Annual Levy of the District pursuant to the Act, over and including the land within the District boundary, and to levy and collect assessments on all such land to pay the annual costs of the improvements.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: the maintenance and operation of and the furnishing of services, materials or improvements for certain landscaped areas including open space areas, parkways, slopes, and medians and other public improvements within the street right of way areas, including, but not limited to trees, shrubs, turf and other ornamental vegetation, drainage and irrigation systems, and other appurtenant facilities. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

Section 3 Boundaries and Designation: The boundaries of the District are described as the boundaries previously defined in the formation documents of the original District. The District generally includes the parcels within the area known as the North Central Roseville Specific Plan. The District is known and designated as

“North Central Roseville Specific Plan Landscaping and Lighting District”

Section 4 Proposed Assessment Amounts: The proposed assessments are outlined in the Engineer’s Annual Levy Report. District Assessments are calculated in accordance with the method of apportionment established for the District and do not exceed the assessment rates and annual inflationary adjustment previously authorized by City Council and approved by the property owners in accordance with the provisions of the California State Constitution, Article XIID.

Section 5 Public Hearing(s): The City Council hereby declares its intention to conduct a Public Hearing annually concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22626* of the Act.

Section 6 Notice: The City Clerk shall give notice of the time and place of the Public Hearing by causing the publishing of this Resolution once in a local newspaper not less than ten (10) days before the date of the hearing and by posting a copy of this Resolution on the official bulletin board customarily used by the City Council for the posting of notices.

Section 7 Time and Place of Public Hearing: Notice is hereby given that a Public Hearing on these matters will be held by the City Council on **Wednesday, May 20, 2020 at 6:00 p.m.**, or as soon thereafter as feasible in the regular meeting chambers located at 311 Vernon Street, Roseville, California.

RESOLUTION NO. 20-151

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-152

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the "City Council") does resolve as follows:

WHEREAS, the City Council has, by previous Resolutions, ordered the preparation of an Engineer's Annual Levy Report (hereafter referred to as the "Engineer's Report") for the district known and designated as the North Central Roseville Specific Plan Landscaping and Lighting District (hereafter referred to as the "District"), pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereinafter referred to as the "Act"); and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter "Engineer"), for the purpose of assisting with the establishment of the assessments and to prepare and file an Engineer's Report with the City Clerk in accordance with the Act, and in accordance with the requirements of the California Constitution, Articles XIIC and XIID; and,

WHEREAS, there has now been presented to this City Council the Engineer's Report as required by *Chapter 1, Article 4, Section 22566* of said Act; and,

WHEREAS, this City Council has carefully examined and reviewed the Engineer's Report as presented, and is preliminarily satisfied with the District, each and all of the budget items and documents as set forth therein, and is satisfied that the assessments, on a preliminary basis, have been spread in accordance with the benefits received from the improvements, operation, maintenance and services to be performed within each Zone, as set forth in said Report; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 That the above recitals are all true and correct.

Section 2 That the Engineer's Report as presented, consists of the following:

- a. A Description of Improvements
- b. The Annual Budget (Costs and Expenses of Maintenance, Services, Operations and District Administration)
- c. The Assessment Roll containing the Fiscal Year 2020/2021 Levy for each Assessor Parcel within the District

Section 3 The Engineer's Report is hereby approved on a preliminary basis, and ordered to be filed in the Office of the City Clerk as a permanent record and to remain open to public inspection.

Section 4 That the City Clerk shall certify to the passage and adoption of this Resolution, and the minutes of this meeting shall so reflect the presentation of the Engineer's Report.

RESOLUTION NO. 20-152

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville



City of Roseville

North Central Roseville Specific Plan Landscaping and Lighting District

2020/21 ENGINEER'S ANNUAL LEVY REPORT

Intent Meeting:	May 6, 2020
Public Hearing:	May 20, 2020

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www.willdan.com



ENGINEER'S REPORT AFFIDAVIT

Establishment of Annual Rates and Charges for the:

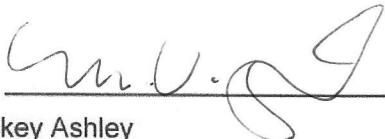
North Central Roseville Specific Plan
Landscaping and Lighting District

City of Roseville
Placer County, State of California

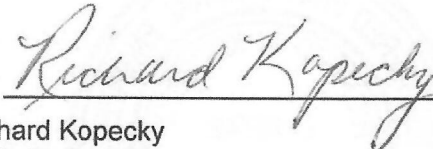
This Report describes the District and any relevant zones therein, including the improvements, budgets, parcels and assessments to be levied for Fiscal Year 2020/21 as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Placer County Assessor's maps for a detailed description of the lines and dimensions of parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the City Council.

Dated this 15th day of APRIL, 2020

Willdan Financial Services
Assessment Engineer
On Behalf of the City of Roseville

By: 

Mickey Ashley
Senior Project Analyst
District Administration Services

By: 

Richard Kopecky
R. C. E. # 16742



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I. OVERVIEW

A. INTRODUCTION

The City of Roseville (“City”) annually levies and collects special assessments in order to maintain the improvements within the existing North Central Roseville Specific Plan Landscaping and Lighting District (“District”) within the City. The District was formed in 1990. The District was formed and is levied annual assessments pursuant to the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the California Streets and Highways Code (the “Act”).

This Engineer’s Annual Levy Report for Fiscal Year 2020/21 (“Report”) describes the District, any annexations, changes to the District, and the proposed assessments for the period of July 1, 2020 through June 30, 2021. The maintenance, operation and servicing of the improvements associated with specific areas of the City that provide a special benefit to the properties in that area are identified as Zones. The costs of the improvements and services are identified and budgeted separately for each Zone and each parcel within a Zone is assessed proportionately for only those improvements and services that are a direct and special benefit to the properties within the Zone. The budgets and assessments are based on the estimated cost (considering historical costs) to maintain the District improvements that provide a direct and special benefit to properties within the District.

The District consists of four landscaping benefit Zones:

- District Wide Benefit Zone
- Local Benefit Zone
- Zone F
- Zone G

In 2003, the City initiated and conducted property owner protest ballot proceedings, in accordance with the Act and Proposition 218, for the territory now known as Zones F & G. After the results of the ballots were tabulated, the City determined that a majority protest did not exist. The City then approved the annexation of Zones F and G, the maximum assessment rates and annual inflationary adjustment factor.

In 2004, the City initiated and conducted property owner protest ballot proceedings, in accordance with the Act and Proposition 218, to reengineer Zones A, B, C, D & E and approve the maximum assessment rates and annual inflationary adjustment factor. After the results of the ballots were tabulated, the City determined that a majority protest did not exist. The City then approved the Engineer’s Annual Levy Report for FY 2004/05, which reconstituted the reengineered zones into the respective District Wide Benefit Zone or Local Benefit Zone.

Zones A, B, C, D and E were reengineered in order to more accurately identify the Zones and areas of special benefit within this portion of the District. These zones were combined into two new Zones based primarily on level of service, similarity of improvement types, and the proximity to improvements.

The word “parcel,” for the purposes of this Report, refers to an individual property assigned its own Assessor’s Parcel Number (“APN”) by the Placer County Assessor’s Office. The Placer County Auditor/Controller uses Assessor’s Parcel Numbers and specific Tax Code Accounts, to identify on the County’s tax roll, properties assessed for special district benefit assessments.

Following approval of the Report, the City Council will by resolution, order the improvements to be made, if any, and confirm the levy and collection of assessments pursuant to the Act. The assessment rates and method of apportionment described in this Report as approved or modified by the City Council defines the assessments to be applied to each parcel within the District and respective Zones for Fiscal Year (“FY”) 2020/21. The assessments as approved will be submitted to the Placer County Auditor/Controller to be included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rates approved by the City Council.

B. COMPLIANCE WITH CURRENT LEGISLATION

All assessments described in this Report and approved by the City Council are prepared in accordance with the Act and are in compliance with the substantive and procedural requirements of the California State Constitution Articles XIIC and XIID (“Articles XIIC and XIID”) and the provisions of the Proposition 218 Omnibus Implementation Act [Government Code Section 53750 and following] (the “Implementation Act”). Articles XIIC and XIID and the Implementation Act collectively are hereinafter referred to as “Proposition 218”.

In compliance with the provisions of Proposition 218, property owner ballot proceedings have been conducted for all Zones within the District; such proceedings approved and confirmed the Maximum Assessments and the Inflationary Adjustment Factor as described in this Report.

The District and all Zones therein have been formed pursuant to the Act. Pursuant to the Act, an annual Public Hearing is conducted by the City Council to accept

property owner and public comments, to review the Engineer's Annual Levy Report prior to approving the annual assessments to be levied on the County tax rolls.

C. DESCRIPTION OF DISTRICT BOUNDARIES

The District is located north of downtown Roseville between Interstate 80 and Washington Boulevard and generally encompasses the area within the North Central Roseville Specific Plan ("NCRSP") and two small residential developments in close proximity to the NCRSP near the corner of Diamond Oaks Road and Washington Boulevard. See Appendix A for District boundary map.

District Wide Zone This Zone includes all assessable property within the District with the exception of Zone F and Zone G.

Local Benefit Zone This Zone includes all single family residential property within the District with the exception of Zone F and Zone G.

Zone F This Zone, which comprises the Diamond Oaks Unit No. 10 development, was created on January 8, 2003 through Resolution 03-2 and was first levied in FY 2003/04. Zone F was comprised of Assessor Parcel Number ("APN") 015-020-040 prior to being subdivided into 39 residential lots.

Zone G This Zone, which comprises the Diamond Oaks Unit No. 14 development, was created on May 28, 2003 through Resolution 03-220 and was first levied in FY 2003/04. Zone G was comprised of APNs 017-041-034 & 015-020-006 prior to being subdivided into 76 residential lots and 1 non-residential parcel.

D. IMPROVEMENTS AUTHORIZED BY THE 1972 ACT

As applicable or may be applicable to a proposed District, the Act defines improvements to mean one or any combination of the following:

- The installation or planting of landscaping.
- The installation or construction of statuary, fountains, and other ornamental structures and facilities.
- The installation or construction of public lighting facilities.
- The installation or construction of any facilities which are appurtenant to any of the foregoing or which are necessary or convenient for the maintenance or servicing thereof, including, but not limited to, grading, clearing, removal of debris, the installation or construction of curbs, gutters, walls, sidewalks, or paving, or water, irrigation, drainage, or electrical facilities.

- The maintenance or servicing, or both, of any of the foregoing.
- The acquisition of any existing improvement otherwise authorized pursuant to this section.

Incidental expenses associated with the improvements including, but not limited to:

- The cost of preparation of the report, including plans, specifications, estimates, diagram, and assessment;
- The costs of printing, advertising, and the publishing, posting and mailing of notices;
- Compensation payable to the County for collection of assessments;
- Compensation of any engineer or attorney employed to render services;
- Any other expenses incidental to the construction, installation, or maintenance and servicing of the improvements;
- Any expenses incidental to the issuance of bonds or notes pursuant to Section 22662.5.
- Costs associated with any elections held for the approval of a new or increased assessment.

The 1972 Act defines "Maintain" or "maintenance" to mean furnishing of services and materials for the ordinary and usual maintenance, operation, and servicing of any improvement, including:

- Repair, removal, or replacement of all or any part of any improvement.
- Providing for the life, growth, health, and beauty of landscaping, including cultivation, irrigation, trimming, spraying, fertilizing, or treating for disease or injury.
- The removal of trimmings, rubbish, debris, and other solid waste.
- The cleaning, sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Furthermore, the 1972 Act specifies that where the cost of improvements (other than maintenance and operations) is greater than can be conveniently raised from a single annual assessment, an assessment to be levied and collected in annual installments. In that event, the governing body may choose to do any of the following:

- Provide for the accumulation of the moneys in an improvement fund until there are sufficient moneys to pay all or part of the cost of the improvements.
- Provide for a temporary advance to the improvement fund from any available and unencumbered funds of the local agency to pay all or part of the cost of the improvements and collect those advanced moneys from the annual installments collected through the assessments.

- Borrow an amount necessary to finance the estimated cost of the proposed improvements. The amount borrowed, including amounts for bonds issued to finance the estimated cost of the proposed improvements.

E. DESCRIPTION OF THE IMPROVEMENTS AND MAINTENANCE

The District provides and ensures the continued maintenance, servicing, administration and operation of various landscaping and lighting improvements, and associated appurtenances that benefit parcels within the District. Services provided include all necessary service, operations, administration and maintenance required to keep the improvements in a healthy, vigorous, and satisfactory condition.

Specific improvements include all ground cover, turf, shrubs, trees, gardens, play areas and play equipment, picnic areas, bike paths, pedestrian trails, walls and fences, park maintenance facilities, irrigation and drainage systems, graffiti removal, and associated appurtenances. Improvements in each Zone include:

District Wide Zone This Zone provides for the maintenance of landscaping, fences, sound walls and other improvements within the arterial parkway right of ways, also described as scenic corridors, including but not limited to Roseville Parkway, Pleasant Grove Boulevard, Harding Boulevard and the east side of Washington Boulevard, pedestrian and bike pathways.

Local Benefit Zone This Zone provides for the maintenance of landscaping and other improvements within the local street right of ways. This Zone is primarily a combination of the old Zone C and Zone D, which provided similar maintenance.

Zone F This Zone provides for the maintenance of parkway and perimeter landscaping and block wall adjacent to the development on the west side of Diamond Oaks Road; Parkway and perimeter landscaping, bike trails, block wall and wood fence adjacent to the development on the east side of Washington Boulevard; Open Space designated as Lot “B”, and; Landscaping within Lot “C”, “E” and “F” within the Diamond Oaks Unit No. 10 project.

Zone G This Zone provides for the maintenance of parkway and perimeter landscaping, bike path and masonry sound wall adjacent to the development on the south side of Pleasant Grove Boulevard; maintenance of parkway and perimeter

landscaping, bike path and masonry sound wall adjacent to the development on the west side of Washington Boulevard from Pleasant Grove Boulevard to Emerald Oak Road; maintenance of the masonry sound wall on the western perimeter of the development; installation and maintenance of perimeter landscaping on the west side of the development located on Open Space Parcel C between Emerald Oak Road and the masonry sound wall adjacent to the railroad right of way; and maintenance of Open Space, cobble swale (Lot "B") and post and cable fencing for Lots "A", "B", and "C" within the Diamond Oaks Unit No. 14 project.

All assessable parcels identified as being within each Zone, share in both the cost and the benefits of the improvements. The costs associated with the improvements are equitably spread among all benefiting parcels within each Zone. Only parcels that receive direct and special benefit from the improvements are assessed, and each parcel is assessed in proportion to the estimated benefit received. The funds collected are to be dispersed and used for only the services and operation provided each Zone of the District.

II. METHOD OF APPORTIONMENT

A. GENERAL

The Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements which include the construction, maintenance and servicing of public lights, landscaping and appurtenant facilities. The Act further requires that the cost of these improvements be levied according to benefit rather than assessed value:

“The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements.”

The formula used for calculating assessments in each Zone of the District therefore reflects the composition of the parcels, and the improvements and services provided, to fairly apportion the costs based on estimated benefit to each parcel.

B. SPECIAL BENEFIT ANALYSIS

In conjunction with the provisions of the 1972 Act, the California Constitution Article XIID addresses several key criteria for the levy of assessments, notably:

Article XIID Section 2(d) defines District as follows:

“District means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service”;

Article XIID Section 2(i) defines Special Benefit as follows:

“Special benefit” means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute “special benefit.”

Article XIID Section 4(a) defines proportional special benefit assessments as follows:

“An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be

imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.”

This District was formed to establish and provide for the improvements that enhance the presentation of the surrounding properties and developments. These improvements will directly benefit the parcels to be assessed within the District. The assessments and method of apportionment is based on the premise that the assessments will be used to construct and install landscape and lighting improvements within the District as well as provide for the annual maintenance of those improvements, and the assessment revenues generated by District will be used solely for such purposes.

The City has initiated and conducted property owner protest ballot proceedings in accordance with the Act and Proposition 218 for all Zones within the District. Each of the proposed improvements; the associated costs and assessments have been carefully reviewed, identified and allocated based on special benefit pursuant to the provisions of Article XIID and the Act. All improvements associated with the Zones have been identified as necessary, required and/or desired for the orderly development of the properties to their full potential. As such, these improvements would be necessary and required of individual property owners for the development of such properties and the ongoing operation, servicing and maintenance of these improvements would be the financial obligation of those properties. Therefore, the improvements and the annual costs of ensuring the maintenance and operation of the improvements are of direct and special benefit to the properties.

The method of apportionment (method of assessment) is based on the premise that each assessed parcel within these Zones receives special benefit from the improvements. The desirability and security of properties is enhanced by well-maintained landscaping in close proximity to those properties.

The special benefits associated with all landscaping improvements are specifically:

- Enhanced desirability of properties through association with the improvements.
- Improved aesthetic appeal of properties providing a positive representation of the area and properties.
- Enhanced adaptation of the urban environment within the natural environment from adequate green space and landscaping.
- Environmental enhancement through improved erosion resistance, dust and debris control, and fire prevention.
- Increased sense of pride in ownership of property within the Zones resulting from well-maintained improvements associated with the properties.
- Enhanced quality of life through well-maintained green belts and landscaped areas.

- Reduced criminal activity and property-related crimes (especially vandalism) against properties in the Zones through well-maintained surroundings and amenities including abatement of graffiti.
- Enhanced environmental quality of the parcels by moderating temperatures, providing oxygenation and attenuating noise.

All of the preceding special benefits allow the property to be developed for the enjoyment of the property owners and contribute to a specific enhancement and desirability of each of the assessed parcels within the Zones.

The improvements are for the special benefit, enhancement and use of properties within the Zones. Although the improvements include public easements, rights-of-way, streets and other amenities available or visible to the public at large, the construction and installation of these improvements are only necessary for the development of properties within the Zones and are not required nor necessarily desired by any properties or developments outside the Zone's boundaries. Therefore, any public access or use of the improvements by others is incidental and there is no measurable general benefit to properties outside the Zones or to the public at large. In making this determination, it should be noted that all parkway and perimeter landscaping within the City is both funded and maintained by a special district, individual property owners or through some type of association.

C. DESCRIPTION OF THE METHOD OF APPORTIONMENT

Pursuant to the Act, the costs of each Zone may be apportioned by any formula or method that fairly distributes the net amount to be assessed, among all assessable parcels within the Zone in proportion to the estimated special benefits to be received by each such parcel from the improvements. The special benefit formula used for each Zone should reflect the composition of the parcels, and the improvements and services provided, to fairly proportion the Zone's costs based on estimated special benefit to each parcel within the Zone. All assessable parcels within each Zone shall receive a direct special benefit from the services and improvements provided by the Zone.

Considering the composition of the parcels within the Zone, each parcel is assigned an Equivalent Dwelling Unit ("EDU"), which reflects each parcel's estimated special benefit from the improvements as compared to other parcels within the Zone. Because all assessable parcels within each Zone are considered to benefit from the Zone improvements on an EDU basis, the amounts to levy to each Zone is then spread to each assessable parcel within the Zone on an EDU method as shown in the table below. Acreage of common area parcels shall be apportioned to the remaining assessable parcels of a subdivision and/or parcel split(s) related to the creation of the common area parcel(s).

The following formulas are used to calculate the assessment for each parcel:

ASSIGNED EDU	PROPERTY CLASS
1.0 per unit	Single-Family Residential Parcels
0.6 per unit	Multi-Family Residential Parcels
7.0 per acre	Non-Residential Parcels

For each Zone, the Applied Assessment Rate per Equivalent Dwelling Unit for each parcel in the Zone is the result of dividing the total Balance to Levy for each Zone, by the sum of the Zone EDU's for the fiscal year. This Applied Assessment Rate is multiplied by each parcel's individual EDU to determine the parcel's levy amount. The assessment cannot be greater than the current maximum assessment rate, as adjusted for the inflation factor.

$$\text{Total Balance to Levy} / \text{Total EDU} = \text{Rate per EDU}$$

$$\text{Parcel EDU} \times \text{Rate per EDU} = \text{Parcel Levy Amount}$$

D. INFLATIONARY ADJUSTMENT FACTOR

Any new or increase in assessments require certain noticing and meeting requirements by law. Prior to the passage of Proposition 218, legislative changes in the Ralph M. Brown Act (the "Brown Act") defined a new or increased assessment to exclude certain conditions. These conditions included any assessment that does not exceed an assessment formula or range of assessments previously adopted by the agency or approved by the voters in the area where the assessment is imposed. This definition and conditions were later confirmed through Senate Bill 919 (the implementing legislation for Proposition 218).

The purpose of establishing an assessment range formula is to provide for reasonable increases and inflationary adjustment to annual assessments without requiring costly noticing and mailing procedures, which could add to the District costs and assessments. As part of the District formation, balloting of property owners is required, pursuant to Proposition 218. The property owner ballots included an Assessment to be approved, as well as the approval of an assessment range formula.

The assessment range formula shall be applied to all future assessments within the District. Generally, if the proposed annual assessment (levy per unit or rate) for the current fiscal year is less than or equals to the "Maximum Assessment" (or "Adjusted Maximum Assessment"), then the proposed annual assessment is not considered an increased assessment. The Maximum Assessment is equal to the initial Assessment approved by property owners adjusted annually by the following criteria:

1. Beginning in the second fiscal year and each fiscal year thereafter, the Maximum Assessment will be calculated.
2. The new Adjusted Maximum Assessment for the year represents the prior year's approved Maximum Assessment increased by three percent (3.0%).

The Maximum Assessment is adjusted annually and is calculated independent of the District's annual budget and proposed annual assessment. Any proposed annual assessment less than or equal to this Maximum Assessment is not considered an increased assessment, even if the proposed assessment is greater than the assessment applied in the prior fiscal year.

The approved base year maximum assessment rates and annual inflationary adjustment factors for all Zones are shown in the table below:

Zone	Year of Approved Maximum Rate and Annual Inflator (Base Year)	Maximum Assessment Rate per EDU (Base Year)	Annual Inflationary Adjustment Factor
District-Wide Benefit Zone	FY 2004/05	\$40.82	3.00%
Local Benefit Zone	FY 2004/05	\$43.92	3.00%
Zone F	FY 2003/04	\$481.35	3.00%
Zone G	FY 2003/04	\$264.22	3.00%

III. DISTRICT BUDGET

A. 2020/21 BUDGET

DESCRIPTION	District-Wide Benefit Zone Fund 2010	Local Benefit Zone Fund 2011	ZONE F (Diamond Oaks No. 10) Fund 2012	ZONE G (Diamond Oaks No. 14) Fund 2013
<u>DIRECT COSTS</u>				
Contract Maintenance - Landscaping	\$185,550.00	\$67,005.00	\$14,650.00	\$3,785.00
Contract Maintenance - Parks	0.00	0.00	0.00	0.00
Repair & Maintenance - Landscaping/Parks	81,000.00	51,195.00	2,700.00	3,000.00
Repair & Maintenance - Lighting	0.00	0.00	0.00	0.00
Utilities	171,000.00	14,000.00	4,378.00	3,500.00
Maintenance - Bike Trails (3380-4801-10001)	0.00	515.00	3,477.00	2,364.00
Maintenance - Open Space (2521-4801-10001)	n/a	n/a	2,320.00	4,364.00
Rehab Reserve Project Expenditures	<u>23,000.00</u>	<u>10,000.00</u>	<u>4,675.00</u>	<u>12,575.00</u>
Total Direct Costs	\$460,550.00	\$142,715.00	\$32,200.00	\$29,588.00
<u>ADMINISTRATION COSTS</u>				
City Administration	\$9,538.00	\$2,905.00	\$463.00	\$186.00
Contract Admin- Park's Dept	32,500.00	9,500.00	1,708.00	1,606.00
Contract Administration - Open Space	n/a	n/a	0.00	0.00
County Auditor Fees	4,919.88	1,489.22	310.28	342.50
Consulting & Professional Services	5,871.00	1,788.00	285.00	115.00
Consultant Incidental Expenses	401.65	124.46	28.08	25.80
Public Hearing Publishing Costs	<u>505.00</u>	<u>385.00</u>	<u>50.00</u>	<u>35.00</u>
Total Administrative Costs	\$53,735.53	\$16,191.68	\$2,844.36	\$2,310.30
Total Direct and Administration Costs	\$514,285.53	\$158,906.68	\$35,044.36	\$31,898.30
<u>BUDGET ADJUSTMENTS</u>				
Replenishment/(Use) of Operating Reserve	\$702.54	\$14.83	\$0.00	\$0.00
Contribution for /(Use of) Rehab Reserve	(23,000.00)	(10,000.00)	(4,016.74)	2,344.30
Rounding Adjustment	<u>(12.62)</u>	<u>(2.98)</u>	<u>0.00</u>	<u>(0.84)</u>
Total Adjustments	(\$22,310.08)	(\$9,988.15)	(\$4,016.74)	\$2,343.46
BALANCE TO LEVY	\$491,975.45	\$148,918.53	\$31,027.62	\$34,241.76

Fund balance information of each Zone is reported in Section C on the following page.

B. 2020/21 ASSESSMENT RATES

DESCRIPTION	District-Wide Benefit Zone Fund 2010	Local Benefit Zone Fund 2011	ZONE F (Diamond Oaks No. 10) Fund 2012	ZONE G (Diamond Oaks No. 14) Fund 2013
<u>FY 2020/21 APPLIED ASSESSMENT RATES</u>				
Total Assessable Parcels*	3,376	2,112	39	79
Total Assessable Single Family Units*	2,113	2,113	39	79
Total Assessable Multi-Family Units	2,348	n/a	-	-
Total Assessable Non-Residential Acres	569.8566	n/a	-	-
Total Equivalent Dwelling Units ("EDUs")*	7,510.7962	2,113	39	79
Applied Assessment Rates Per EDU	\$65.5024	\$70.4773	\$795.5800	\$433.4400
Maximum Assessment Rates per EDU	\$65.5041	\$70.4787	\$795.5982	\$436.7154
Potential Maximum Assessment per Zone	\$491,988	\$148,922	\$31,028	\$34,501

* Since each single family residential parcel resides in both the District-Wide Benefit Zone and the Local Benefit Zone, the number of single family EDUs, units and parcels are only added once to arrive at these totals.

C. 2020/21 FUND BALANCE INFORMATION

DESCRIPTION	District-Wide Benefit Zone Fund 2010	Local Benefit Zone Fund 2011	ZONE F (Diamond Oaks No. 10) Fund 2012	ZONE G (Diamond Oaks No. 14) Fund 2013
<u>OPERATING RESERVE</u>				
Beginning Operating Reserve Balance 7-1-2020 (est.)	\$193,777.96	\$139,767.95	\$13,911.70	\$1,771.04
add: Replenish from FY 20/21 Levy	702.54	14.83		
less: Use for FY 20/21 Expenses				
Transfer from/(to) the Rehab Reserve	35,794.50	(68,425.28)	2,188.30	13,022.96
Ending Operating Reserve Balance 6-30-2021 (est.)	\$230,275.00	\$71,357.50	\$16,100.00	\$14,794.00
<u>REHABILITATION RESERVE</u>				
Beginning Rehab Reserve Balance 7-1-2020 (est.)	\$112,844.50	\$47,244.95	\$21,289.52	\$47,738.67
add: Collect from FY 20/21 Levy			658.26	14,919.30
less: Use for FY 20/21 Rehab Projects	(23,000.00)	(10,000.00)	(4,675.00)	(12,575.00)
Transfer from/(to) the Operating Reserve	(35,794.50)	68,425.28	(2,188.30)	(13,022.96)
Ending Rehab Reserve Balance 6-30-2021 (est.)	\$54,050.00	\$105,670.23	\$15,084.48	\$37,060.01

D. DESCRIPTION OF BUDGET ITEMS

Description of the terms used in the preceding Budget, Assessment Rates and Fund Balance tables are listed below:

BUDGET:

DIRECT COSTS

Contract Maintenance - Landscaping - Includes all regularly scheduled contract labor, materials, supplies and equipment required to properly maintain and ensure the satisfactory condition or maintenance of all landscaping improvements, irrigation and related drainage systems, as well as maintenance of appurtenant facilities (the “improvements”).

Repair & Maintenance - Landscaping/Parks - This line item includes repairs that are generally unforeseen and not normally included in the annual maintenance contract costs. This may include repair of damaged amenities due to vandalism, storms, etc. If zero, this line item may not be shown in the budget.

Utilities - The furnishing of water and electricity required for the operation and maintenance of the improvements.

Maintenance – Bike Trails – Costs to perform the necessary maintenance of the bike trails within the District. If zero, this line item may not be shown in the budget.

Maintenance – Open Space – Costs to perform the necessary maintenance of the open space areas within the District. If zero, this line item may not be shown in the budget.

Rehab Reserve Project Expenditures – Expected costs for installation, replacement or planned upgrades of District improvements for the current year that were previously funded or accumulated in the Rehabilitation Reserve. The Rehabilitation Reserve is used to accumulate funds for costs associated with the future rehabilitation or replacement of District improvements that cannot be conveniently raised from a single year’s assessment. If zero, this line item may not be shown in the budget.

ADMINISTRATION COSTS

City Administration – Estimated costs incurred by the City Finance Department and other Departments in preparing the annual budget for the Engineer’s Report, together with other financial information required to determine the annual assessment. These costs would also include the preparation, posting and publishing of public notices required for City Council action relating to the District, as well as costs to perform legal review of documents.

Contract Administration – Park’s Dept – Estimated Costs of Park and Recreation Department staff to coordinate and oversee the maintenance contracts and overall repair and maintenance of the District. This amount also includes the cost of the Department’s estimates and analysis of certain budget items, estimated costs and useful lives of certain District Improvements.

County Auditor Fees - A fee of 1% of the total levy amount that is charged to the District by the County for placing assessments on property tax bills.

Consulting and Professional Services – Includes the costs and expenses of contracting with various professionals to provide legal, engineering and district administration services directly related to the District, including the calculation of the annual assessment amounts and the preparation of the Engineer’s Report.

Public Hearing Publishing Costs –Includes the out of pocket costs to publish public notices required for City Council action relating to the District.

Total Direct and Administration Costs – The total expected costs of the District.

BUDGET ADJUSTMENTS

Replenishment/(Use) of Operating Reserve – A “Replenishment” increases the levy in order to replenish the Operating Reserve. On the other hand, a “Use” of the Operating Reserve decreases the levy by drawing funds from the Operating Reserve for current year expenditures. If zero, this line item may not be shown in the budget. Further information regarding the function of the Operating Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Contribution for / (Use of) Rehab Reserve — A “Contribution” increases the levy in order to generate funding for the Rehabilitation Reserve. This reserve allows for the accumulation of funds for the possible rehabilitation projects or replacements in future years. On the other hand, a “Use of” of the Rehabilitation Reserve provides current year funding of rehabilitation projects or replacements from available funds within the Rehabilitation Reserve. If zero, this line item may not be shown in the budget. Further information regarding the function of the Rehabilitation Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Rounding Adjustment – The necessary rounding adjustment(s) due to limitations of the County property tax system that requires even penny levy amounts to be placed on the secured tax roll.

BALANCE TO LEVY - This is the total amount to be levied and collected in the District through assessments for the current fiscal year. The Balance to Levy

represents the sum of the total District costs together with any applicable adjustments to the budget as described above.

ASSESSMENT RATES:

APPLIED ASSESSMENT RATES

Total Assessable Single-Family Units - The total number of assessable single-family units within the District for the current fiscal year. Since each single family residential parcel is in both the District-Wide Benefit Zone and the Local Benefit Zone, the single-family EDUs are only added once to arrive at the "Total Equivalent Dwelling Units"

Total Assessable Multi-Family Units - The total number of assessable multi-family units within the District for the current fiscal year.

Total Assessable Non-Residential Acres - The total assessable non-residential acres within the District for the current fiscal year.

Total Equivalent Dwelling Units ("EDUs") - Total assessable EDUs within the District for the current fiscal year.

Applied Assessment Rates per EDU - The assessment rates per EDU to be applied to the non-exempt parcels within the applicable Zone for the current fiscal year.

Maximum Assessment Rates per EDU - The maximum assessment rates per EDU to for the parcels of within the applicable Zone for the current fiscal year.

Potential Maximum Assessment Per Zone – The total amount that can be assessed against all parcels within each Zone for the current fiscal year based upon the expected number of parcels to be assessed.

FUND BALANCE INFORMATION:

OPERATING RESERVE

Beginning Operating Reserve Balance 7-1-2020 - The District's anticipated beginning balance of cash and receivables net of any unpaid prior year obligations. These beginning balances shall be used to fund the District's expenditures from July 1, 2020 to December 31, 2020, as the Operating Reserve is required to compensate for the approximate six-month delay between the start of the District's fiscal year and the receipt of the collections from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

Replenish from FY 20/21 Levy – This amount is added to the levy in order to replenish the Operating Reserve. Due to the six-month delay from the District's receipt of assessment collections, the Operating Reserve balance shall be sufficiently funded to provide for expenditures from the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Expenses – The amount of the Operating Reserve to be used to fund FY 20/21 expenses. Portions of the Operating Reserve may be slated for current year expenditures in order to reduce the Ending Operating Reserve Balance to an amount no greater than the expected District costs for the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Rehab Reserve — The amount of Operating Reserve monies to be transferred to or from the Rehabilitation Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Operating Reserve Balance 6-30-2021 (est.) - This amount represents the anticipated Operating Reserve balance/(deficit) for each Zone as of June 30, 2021. The size of each Zone's Operating Reserve is limited by Streets and Highways Code 22569 which states that an Operating Reserve shall not exceed the estimated costs of maintenance, service and incidental expenses from the first day of the fiscal year (July 1) to the date that the Agency expects to receive the first apportionment of collections from the County, which is estimated to be December 31. Therefore, each Zone may retain an Operating Reserve amounting to the District's first six-months of expenses in order to meet ongoing obligations until the first collections are received from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

REHABILITATION RESERVE

Beginning Rehab Reserve Balance 7-1-2020 — The projected balance of funds in the Rehabilitation Reserve as of July 1, 2020. Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

Collect from FY 20/21 Levy — This amount is added to the levy to accumulate funding of future year rehabilitation projects, replacements, restorations or

upgrades of District improvements. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Rehab Projects — The amount of Rehabilitation Reserve monies expected to be transferred out of the Rehabilitation Reserve to fund the costs of installation, replacement or planned upgrades of District improvements for the current year. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Operating Reserve — The amount of Rehabilitation Reserve monies to be transferred to or from the Operating Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Rehab Reserve Balance 6-30-2021 — The projected balance of funds in the Rehabilitation Reserve as of June 30, 2021. These funds shall be used to provide for future year rehabilitation projects, replacements, restorations or upgrades of District improvements which cannot be conveniently raised from a single year's assessment. Should the District have no Rehabilitation Reserve or related activity, the Rehabilitation Reserve information may not be presented in the Report.

E. REHABILITATION RESERVE – CAPITAL IMPROVEMENT PLAN

Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

For each Zone showing a projected ending Rehabilitation Reserve balance or projected FY 2020/21 expenditures for Rehabilitation Reserve Project, a five-year Capital Improvement Plan showing the projected expenditures related to the rehabilitation, restoration and/or replacement of District improvements and other allowable costs, is shown below.

District Wide Zone

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Replace, repair, renovate and/or refurbish plants, landscape, irrigation and related materials	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$40,000
Grid tree pruning, removal and replacement of declining trees	\$13,000	\$12,500	\$12,500	\$12,500	\$12,500	\$50,000
Total District Wide Zone Expenditures	\$23,000	\$22,500	\$22,500	\$22,500	\$22,500	\$90,000

Local Benefit Zone

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Replace, repair, renovate and/or refurbish plants, landscape, irrigation, and related materials	\$7,500	\$7,500	\$8,200	\$7,500	\$7,500	\$30,700
Repair, replace and/or refurbish sound wall improvements	\$0	\$0	\$5,000	\$0	\$0	\$5,000
Grid tree pruning, removal and replacement of declining trees	\$2,500	\$17,500	\$17,500	\$17,500	\$17,500	\$70,000
Total Local Benefit Zone Expenditures	\$10,000	\$25,000	\$30,700	\$25,000	\$25,000	\$105,700

Zone F

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Replace, repair, renovate and/or refurbish plants, landscape, irrigation and related materials	\$4,000	\$3,500	\$3,500	\$3,500	\$3,500	\$14,000
Grid tree pruning, removal and replacement of declining trees	\$675	\$675	\$675	\$675	\$675	\$2,700
Total Zone F Expenditures	\$4,675	\$4,175	\$4,175	\$4,175	\$4,175	\$16,700

Zone G

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Replace, repair, renovate and/or refurbish plants, landscape, irrigation and related materials	\$10,000	\$10,000	\$7,500	\$7,500	\$7,500	\$32,500
Grid tree pruning, removal and replacement of declining trees	\$2,575	\$1,140	\$1,140	\$1,140	\$1,140	\$4,560
Total Zone G Expenditures	\$12,575	\$11,140	\$8,640	\$8,640	\$8,640	\$37,060

Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements.

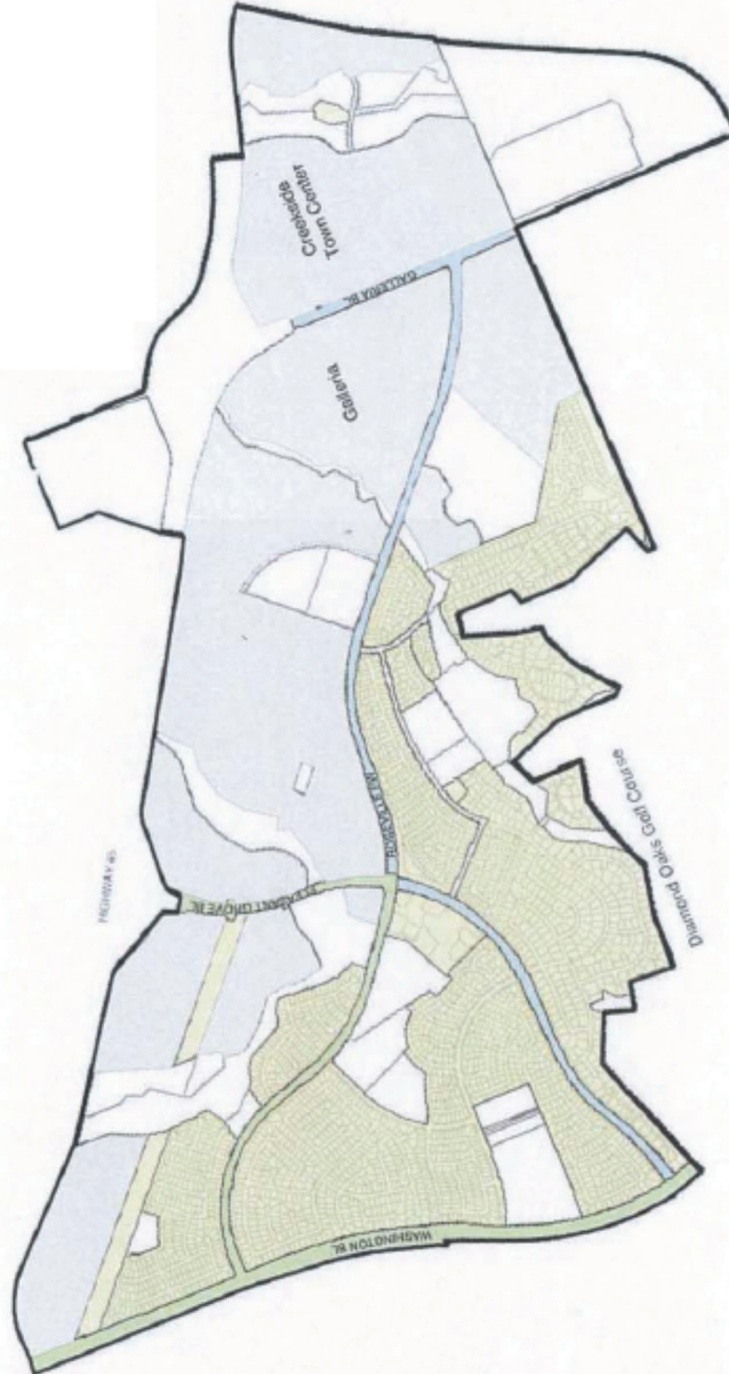
APPENDIX A – DISTRICT BOUNDARY MAP

The boundary map for the District has previously been submitted to the Clerk of the City in the format required under the Act and is, by reference, hereby made part of this Report. These District Boundary Maps are available for inspection at the office of the City Clerk during normal business hours.

For general reference purposes, a rendering of the District's Boundaries is presented herein.

North Central Specific Plan Landscaping and Lighting District District-Wide and Local Benefit Zone Boundaries

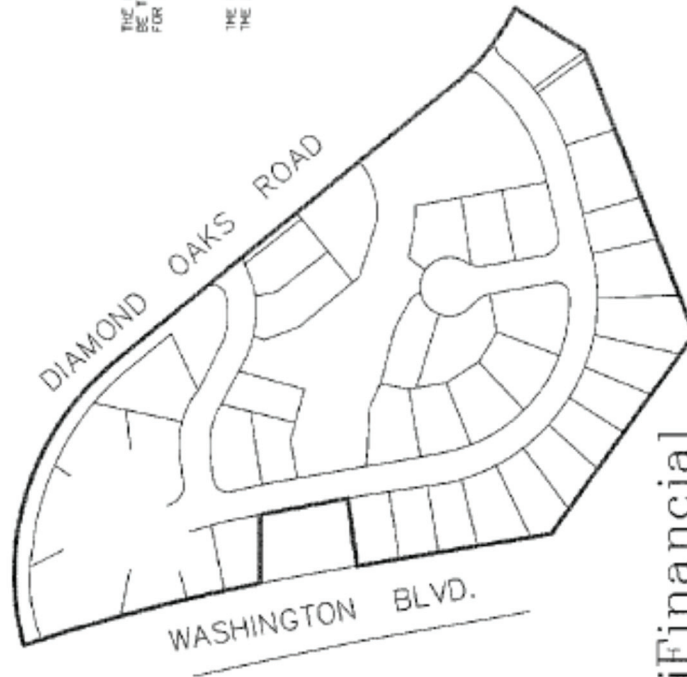
LEGEND
 District Wide Zone Boundary
 Area enclosed from Local Zone



SHEET 1 OF 1

**DIAMOND OAKS NO. 10 LANDSCAPE AND LIGHTING DISTRICT
(ZONE F DIAMOND OAKS NO. 10-NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPE AND LIGHTING DISTRICT)**

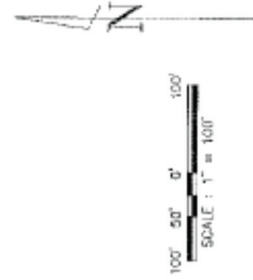
COUNTY OF PLACER
STATE OF CALIFORNIA



THE LINES AND DIMENSIONS OF EACH LOT OR PARCEL SHOWN ON THIS DIAGRAM SHALL BE THOSE LINES AND DIMENSIONS AS SHOWN ON THE PLACER COUNTY ASSESSORS MAPS FOR THOSE PARCELS LISTED.

THE PLACER COUNTY ASSESSORS MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.

LEGEND
— APPORTIONMENT BOUNDARY



MuniFinancial

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Pittsburg, California 95650-3461
Phone (800) 890-3060 Fax (800) 890-3460

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**DIAMOND OAKS NO. 14 LANDSCAPE AND LIGHTING DISTRICT
(ZONE G DIAMOND OAKS NO. 14-NORTH CENTRAL ROSEVILLE SPECIFIC PLAN
LANDSCAPE AND LIGHTING DISTRICT)
CITY OF ROSEVILLE
COUNTY OF PLACER
STATE OF CALIFORNIA**



THE LINE AND DIMENSIONS OF EACH LOT OR PARCEL SHOWN ON THIS DIAGRAM SHALL BE THOSE LINES AND DIMENSIONS AS SHOWN ON THE PLACER COUNTY ASSESSORS MAPS FOR THOSE PARCELS LISTED.

THE PLACER COUNTY ASSESSORS MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



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APPENDIX B — 2020/21 ASSESSMENT ROLL

Parcel identification, for each lot or parcel within the District, shall be the parcel as shown on the Placer County Assessor's map for the year in which this Report is prepared.

Due to the size of the Assessment Roll, a listing of parcels to be assessed within this District, along with the proposed assessment amounts, shall be submitted to the City Clerk, under a separate cover, and by reference is made part of this Report.

Non-assessable lots or parcels may include areas of public streets and other roadways (typically not assigned an APN by the County); dedicated public easements, open space areas and rights-of-ways including public greenbelts and parkways; utility rights-of-ways; common areas; landlocked parcels, small parcels vacated by the County, bifurcated lots, and any other property that cannot be developed. These types of parcels are considered to receive little or no benefit from the improvements and are therefore exempted from assessment.

At the conclusion of the public hearing for the District and the proposed assessments, approval of the Report (as submitted or as modified) confirms the method of apportionment and the assessment rate to be levied against each eligible parcel and thereby constitutes the approved levy and collection of assessments for FY 2020/21. The listing of parcels and the amount of assessment to be levied shall be submitted to the County Auditor/Controller and included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved in this Report. Therefore, if a single parcel has changed to multiple parcels, the assessment amount applied to each of the new parcels shall be recalculated and applied according to the approved method of apportionment and assessment rate rather than a proportionate share of the original assessment.

City of Roseville
North Central Roseville Specific Plan Landscaping and Lighting District
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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
015-165-002-000	District - Wide	1,017.92	1,017.93	15.54	0.0	15.54	0.0	0.0	2.22	Non Residential	2.2AC PAR 1 PMOR 35-06
015-165-003-000	District - Wide	774.90	774.91	11.83	0.0	11.83	0.0	0.0	1.69	Non Residential	1.7AC PAR 2 PMOR 35-06
015-165-004-000	District - Wide	779.48	779.50	11.9	0.0	11.9	0.0	0.0	1.7	Non Residential	1.7AC PAR 3 PMOR 35-06
015-165-005-000	District - Wide	710.70	710.72	10.85	0.0	10.85	0.0	0.0	1.55	Non Residential	1.6AC PAR 4 PMOR 35-06
015-166-004-000	District - Wide	2,354.04	2,354.09	35.938	0.0	35.938	0.0	0.0	5.134	Non Residential	5.1 AC LOT 23 CREEKSIDE CENTER V-17
015-166-005-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Wetland/Vernal Pool	9.5 AC LOT 23 CREEKSIDE CENTER V-17
015-166-006-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Wetland/Vernal Pool	1.1 AC LOT 23 CREEKSIDE CENTER V-17
015-166-007-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Wetland/Vernal Pool	4.0 AC LOT 29B OPEN SPACE MOR V-17
015-166-009-000	District - Wide	5,605.86	5,605.97	85.582	0.0	85.582	0.0	0.0	12.226	Non Residential	11.9 AC POR PAR 46 PMOR 28-50
015-166-013-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Wetland/Vernal Pool	3.9 AC LOT 30 CREEKSIDE CENTER V-17
015-166-014-000	District - Wide	889.52	889.55	13.58	0.0	13.58	0.0	0.0	1.94	Non Residential	1.9 AC LOT 27 CREEKSIDE CENTER V-17
015-166-016-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	8.4 AC LOT 31B OPEN SPACE V-17
015-166-023-000	District - Wide	412.66	412.68	6.3	0.0	6.3	0.0	0.0	0.9	Non Residential	POR LOT 1 CREEKSIDE CENTER MOR V-17
015-166-032-000	District - Wide	1,100.44	1,100.47	16.8	0.0	16.8	0.0	0.0	2.4	Non Residential	2.4 AC LOT 3 CREEKSIDE CENTER V-17
015-166-047-000	District - Wide	512.86	512.86	7.8295	0.0	7.8295	0.0	0.0	1.1185	Non Residential	POR LOTS 2 & 5 CREEKSIDE CENTER V-1
015-166-050-000	District - Wide	528.68	528.68	8.071	0.0	8.071	0.0	0.0	1.153	Non Residential	1.2 AC POR LOT 2 & 7 CREEKSIDE CENT
015-166-051-000	District - Wide	583.88	583.89	8.9138	0.0	8.9138	0.0	0.0	1.2734	Non Residential	1.3 AC LOT 8 & POR 9 CREEKSIDE CENT
015-166-052-000	District - Wide	5,953.22	5,953.35	90.8852	0.0	90.8852	0.0	0.0	12.9836	Non Residential	13.5 AC POR LOTS 1 2 & 9 CREEKSIDE
015-166-053-000	District - Wide	9,068.96	9,069.15	138.4516	0.0	138.4516	0.0	0.0	19.7788	Non Residential	19.7 AC POR LOTS 1 2 4 & 5 CREEKSID
015-166-054-000	District - Wide	168.14	168.14	2.5669	0.0	2.5669	0.0	0.0	0.3667	Non Residential	POR LOTS 2 & 4 CREEKSIDE CENTER V-
015-166-055-000	District - Wide	535.32	535.33	8.1725	0.0	8.1725	0.0	0.0	1.1675	Non Residential	1.3 AC LOT 6 & POR L 2 5 & 7 CREEKS
015-166-056-000	District - Wide	2,573.44	2,573.49	39.2875	0.0	39.2875	0.0	0.0	5.6125	Non Residential	5.6 AC POR LOTS 24 & 25 CREEKSIDE C
015-166-057-000	District - Wide	478.74	478.75	7.3087	0.0	7.3087	0.0	0.0	1.0441	Non Residential	1.0 AC POR LOT 26 CREEKSIDE CENTER
015-166-058-000	District - Wide	2,195.94	2,195.99	33.5244	0.0	33.5244	0.0	0.0	4.7892	Non Residential	4.8 AC POR LOTS 24 25 & 26 CREEKSID
015-166-063-000	District - Wide	2,013.90	2,013.95	30.7454	0.0	30.7454	0.0	0.0	4.3922	Non Residential	4.4 AC POR LOTS 12 & 13 CREEKSIDE C
015-166-064-000	District - Wide	1,568.96	1,568.99	23.9526	0.0	23.9526	0.0	0.0	3.4218	Non Residential	3.4 AC POR LOTS 12 & 13 CREEKSIDE C
015-166-065-000	District - Wide	1,430.40	1,430.44	21.8374	0.0	21.8374	0.0	0.0	3.11963	Non Residential	3.1 AC POR LOT 10 & 11 CREEKSIDE CE
015-166-066-000	District - Wide	1,338.12	1,338.16	20.4286	0.0	20.4286	0.0	0.0	2.91837	Non Residential	2.9 AC POR LOT 10 & 11 CREEKSIDE CE
015-167-003-000	District - Wide	302.16	302.17	4.613	0.0	4.613	0.0	0.0	0.659	Non Residential	LOT 16 CREEKSIDE CENTER V-17
015-167-005-000	District - Wide	550.40	550.42	8.4028	0.0	8.4028	0.0	0.0	1.2004	Non Residential	1.2 AC POR LOTS 14 15 & 22
015-167-011-000	District - Wide	423.94	423.96	6.4722	0.0	6.4722	0.0	0.0	0.9246	Non Residential	POR LOT 14 CREEKSIDE CENTER MOR V-1
015-167-012-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	POR LOT 14 CREEKSIDE CENTER MOR V-
015-167-013-000	District - Wide	635.92	635.93	9.7083	0.0	9.7083	0.0	0.0	1.3869	Non Residential	1.4 AC POR LOT 17 CREEKSIDE CENTER
015-167-014-000	District - Wide	427.66	427.67	6.5289	0.0	6.5289	0.0	0.0	0.9327	Non Residential	POR LOTS 18 & 22 CREEKSIDE CENTER M
015-167-015-000	District - Wide	529.26	529.28	8.0801	0.0	8.0801	0.0	0.0	1.1543	Non Residential	1.1 AC POR LOTS 18 19 & 22 CREEKSID
015-167-016-000	District - Wide	3,850.36	3,850.45	58.7818	0.0	58.7818	0.0	0.0	8.3974	Non Residential	8.3 AC POR LOTS 19 THRU 22 CREEKSID
015-167-017-000	District - Wide	1,190.14	1,190.16	18.1692	0.0	18.1692	0.0	0.0	2.5956	Non Residential	2.6 AC POR LOTS 19 THRU 22 CREEKSID
015-167-018-000	District - Wide	5,288.06	5,288.17	80.7303	0.0	80.7303	0.0	0.0	11.5329	Non Residential	11.5 AC P LOTS 14 15 17 & 22 CREEKS
015-500-001-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 DIAMOND OAKS UNIT NO 10 MOR
015-500-002-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 DIAMOND OAKS UNIT NO 10 MOR
015-500-003-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 DIAMOND OAKS UNIT NO 10 MOR
015-500-004-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 DIAMOND OAKS UNIT NO 10 MOR
015-500-005-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 DIAMOND OAKS UNIT NO 10 MOR
015-500-006-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 DIAMOND OAKS UNIT NO 10 MOR
015-500-007-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 DIAMOND OAKS UNIT NO 10 MOR
015-500-008-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 DIAMOND OAKS UNIT NO 10 MOR
015-500-009-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 DIAMOND OAKS UNIT NO 10 MOR

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015-500-010-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 DIAMOND OAKS UNIT NO 10 MOR
015-500-011-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 DIAMOND OAKS UNIT NO 10 MOR
015-500-016-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 DIAMOND OAKS UNIT NO 10 MOR
015-500-019-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 DIAMOND OAKS UNIT NO 10 MOR
015-500-020-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 DIAMOND OAKS UNIT NO 10 MOR
015-500-021-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 DIAMOND OAKS UNIT NO 10 MOR
015-500-022-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 DIAMOND OAKS UNIT NO 10 MOR
015-500-023-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 DIAMOND OAKS UNIT NO 10 MOR
015-500-024-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 DIAMOND OAKS UNIT NO 10 MOR
015-500-025-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 DIAMOND OAKS UNIT NO 10 MOR
015-500-026-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 DIAMOND OAKS UNIT NO 10 MOR
015-500-027-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 DIAMOND OAKS UNIT NO 10 MOR
015-500-028-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 DIAMOND OAKS UNIT NO 10 MOR
015-500-029-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 DIAMOND OAKS UNIT NO 10 MOR
015-500-030-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 DIAMOND OAKS UNIT NO 10 MOR
015-500-031-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 DIAMOND OAKS UNIT NO 10 MOR
015-500-032-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 DIAMOND OAKS UNIT NO 10 MOR
015-500-033-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 DIAMOND OAKS UNIT NO 10 MOR
015-500-036-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 DIAMOND OAKS UNIT NO 10 MOR
015-500-037-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 DIAMOND OAKS UNIT NO 10 MOR
015-500-038-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 DIAMOND OAKS UNIT NO 10 MOR
015-500-039-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 DIAMOND OAKS UNIT NO 10 MOR
015-500-040-000	F	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	1.8 AC LOT A OPEN SPACE MOR Y-72
015-500-041-000	F	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT C OPEN SPACE MOR Y-72
015-500-042-000	F	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT D OPEN SPACE MOR Y-72
015-500-043-000	F	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT E OPEN SPACE MOR Y-72
015-500-044-000	F	-	-	0.0	0.0	0.0	0.0	0.0	0.0	NPOTS	FR SEC 27 11 6
015-500-047-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT15 DIAMOND OAKS UNIT #10 MOR
015-500-048-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 34 DIAMOND OAKS UNIT NO 10
015-500-049-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 & POR 34 DIAMOND OAKS UNIT N
015-500-050-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 12 DIAMOND OAKS UNIT NO 10
015-500-051-000	F	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	POR LOT 12 DIAMOND OAKS UNIT NO 10
015-500-052-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 13 DIAMOND OAKS UNIT NO 10
015-500-053-000	F	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	POR LOT 13 DIAMOND OAKS UNIT NO 10
015-500-054-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	POR LOTS 13 14 & 15 DIAMOND OAKS U
015-500-055-000	F	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	POR LOTS 13 14 DIAMOND OAKS UNIT
015-500-056-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 17 DIAMOND OAKS UNIT NO 10
015-500-058-000	F	795.58	795.60	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 18 DIAMOND OAKS UNIT NO 10
017-123-043-000	District - Wide	550.22	550.23	8.4	0.0	8.4	0.0	0.0	1.2	Non Residential	1.2 AC POR PAR 34 C-2 PMOR 28-84
017-123-054-000	District - Wide	2,063.34	2,063.38	31.5	0.0	31.5	0.0	0.0	4.5	Non Residential	4.5 AC PAR 34 C-1 PMOR 28-84
017-123-055-000	District - Wide	8,313.72	8,313.90	126.9219	0.0	126.9219	0.0	0.0	18.1317	Non Residential	20.3 AC PAR 1 PMOR 28-160
017-123-058-000	District - Wide	461.86	461.88	7.0511	0.0	7.0511	0.0	0.0	1.0073	Non Residential	1.0 AC PAR 2 PMOR 28-160
017-123-086-000	District - Wide	692.36	692.38	10.57	0.0	10.57	0.0	0.0	1.51	Non Residential	1.5 AC PAR 34B & POR 34A PM 28-67
017-123-087-000	District - Wide	5,914.90	5,915.02	90.3	0.0	90.3	0.0	0.0	12.9	Non Residential	13.0 AC POR PAR 34A PM 28-67
017-420-002-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 DIAMOND OAKS UNIT NO 14 MOR Z
017-420-003-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 DIAMOND OAKS UNIT NO 14 MOR Z
017-420-004-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 DIAMOND OAKS UNIT NO 14 MOR Z

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017-420-005-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 DIAMOND OAKS UNIT NO 14 MOR Z
017-420-006-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 DIAMOND OAKS UNIT NO 14 MOR Z
017-420-007-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 DIAMOND OAKS UNIT NO 14 MOR Z
017-420-008-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 DIAMOND OAKS UNIT NO 14 MOR Z
017-420-009-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 DIAMOND OAKS UNIT NO 14 MOR Z
017-420-010-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 DIAMOND OAKS UNIT NO 14 MOR
017-420-011-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 DIAMOND OAKS UNIT NO 14 MOR
017-420-012-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 DIAMOND OAKS UNIT NO 14 MOR
017-420-013-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 DIAMOND OAKS UNIT NO 14 MOR
017-420-014-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 DIAMOND OAKS UNIT NO 14 MOR
017-420-015-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 DIAMOND OAKS UNIT NO 14 MOR
017-420-016-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 DIAMOND OAKS UNIT NO 14 MOR
017-420-017-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 DIAMOND OAKS UNIT NO 14 MOR
017-420-018-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 DIAMOND OAKS UNIT NO 14 MOR
017-420-019-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 DIAMOND OAKS UNIT NO 14 MOR
017-420-020-000	G	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT A PUBLIC UTILITY EASEMENT MOR Z
017-420-021-000	G	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	3.7 AC LOT B PUBLIC UTILITY EASEMEN
017-420-022-000	G	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Utility ROW	POR LOT C PUBLIC UTILITY EASEMENT M
017-420-023-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 PMOR 31-157
017-420-024-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 78 PMOR 31-157
017-420-025-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 79 PMOR 31-157
017-420-026-000	G	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT A OPEN SPACE PMOR 31-157
017-420-027-000	G	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT B OPEN SPACE PMOR 31-157
017-430-001-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 DIAMOND OAKS UNIT NO 14 MOR
017-430-002-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 DIAMOND OAKS UNIT NO 14 MOR
017-430-003-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 DIAMOND OAKS UNIT NO 14 MOR
017-430-004-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 DIAMOND OAKS UNIT NO 14 MOR
017-430-005-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 DIAMOND OAKS UNIT NO 14 MOR
017-430-006-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 DIAMOND OAKS UNIT NO 14 MOR
017-430-007-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 DIAMOND OAKS UNIT NO 14 MOR
017-430-008-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 DIAMOND OAKS UNIT NO 14 MOR
017-430-009-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 DIAMOND OAKS UNIT NO 14 MOR
017-430-010-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 DIAMOND OAKS UNIT NO 14 MOR
017-430-011-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 DIAMOND OAKS UNIT NO 14 MOR
017-430-012-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 DIAMOND OAKS UNIT NO 14 MOR
017-430-013-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 DIAMOND OAKS UNIT NO 14 MOR
017-430-014-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 DIAMOND OAKS UNIT NO 14 MOR
017-430-015-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 DIAMOND OAKS UNIT NO 14 MOR
017-430-016-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 DIAMOND OAKS UNIT NO 14 MOR
017-430-017-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 DIAMOND OAKS UNIT NO 14 MOR
017-430-018-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 DIAMOND OAKS UNIT NO 14 MOR
017-430-019-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 DIAMOND OAKS UNIT NO 14 MOR
017-430-020-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 DIAMOND OAKS UNIT NO 14 MOR
017-430-021-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 DIAMOND OAKS UNIT NO 14 MOR
017-430-022-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 DIAMOND OAKS UNIT NO 14 MOR
017-430-023-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 DIAMOND OAKS UNIT NO 14 MOR
017-430-024-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 DIAMOND OAKS UNIT NO 14 MOR

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
017-430-025-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 DIAMOND OAKS UNIT NO 14 MOR
017-430-026-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 DIAMOND OAKS UNIT NO 14 MOR
017-430-027-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 DIAMOND OAKS UNIT NO 14 MOR
017-430-028-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 DIAMOND OAKS UNIT NO 14 MOR
017-430-029-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 DIAMOND OAKS UNIT NO 14 MOR
017-430-030-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 DIAMOND OAKS UNIT NO 14 MOR
017-430-031-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 DIAMOND OAKS UNIT NO 14 MOR
017-430-032-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 DIAMOND OAKS UNIT NO 14 MOR
017-430-033-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 DIAMOND OAKS UNIT NO 14 MOR
017-430-034-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 DIAMOND OAKS UNIT NO 14 MOR
017-430-035-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 DIAMOND OAKS UNIT NO 14 MOR
017-430-036-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 DIAMOND OAKS UNIT NO 14 MOR
017-430-037-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 DIAMOND OAKS UNIT NO 14 MOR
017-430-038-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 DIAMOND OAKS UNIT NO 14 MOR
017-430-039-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 DIAMOND OAKS UNIT NO 14 MOR
017-430-040-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 DIAMOND OAKS UNIT NO 14 MOR
017-430-041-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 DIAMOND OAKS UNIT NO 14 MOR
017-430-042-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 DIAMOND OAKS UNIT NO 14 MOR
017-430-043-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 DIAMOND OAKS UNIT NO 14 MOR
017-430-044-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 DIAMOND OAKS UNIT NO 14 MOR
017-430-045-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 64 DIAMOND OAKS UNIT NO 14 MOR
017-430-046-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 DIAMOND OAKS UNIT NO 14 MOR
017-430-047-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 66 DIAMOND OAKS UNIT NO 14 MOR
017-430-048-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 67 DIAMOND OAKS UNIT NO 14 MOR
017-430-049-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 68 DIAMOND OAKS UNIT NO 14 MOR
017-430-050-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 69 DIAMOND OAKS UNIT NO 14 MOR
017-430-051-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 70 DIAMOND OAKS UNIT NO 14 MOR
017-430-052-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 71 DIAMOND OAKS UNIT NO 14 MOR
017-430-053-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 72 DIAMOND OAKS UNIT NO 14 MOR
017-430-054-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 73 DIAMOND OAKS UNIT NO 14 MOR
017-430-055-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 74 DIAMOND OAKS UNIT NO 14 MOR
017-430-056-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 75 DIAMOND OAKS UNIT NO 14 MOR
017-430-057-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 76 DIAMOND OAKS UNIT NO 14 MOR
017-430-058-000	G	433.44	436.72	0.0	0.0	1.0	1.0	0.0	0.0	SF Residential	LOT 77 DIAMOND OAKS UNIT NO 14 MOR
017-430-059-000	G	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Utility ROW	POR LOT C PUBLIC UTILITY EASEMENT M
017-430-060-000	G	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	LOT D PUBLIC UTILITY EASEMENT MOR Z
359-010-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PAR "T"
359-010-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PAR "T"
359-010-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PAR "T"
359-010-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PAR "T"
359-010-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PAR "T"
359-010-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PAR "T"
359-010-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PAR "T"
359-010-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PAR "T"
359-010-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PAR "T"
359-010-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PAR "T"
359-010-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PAR "T"

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
359-020-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST PAR W
359-020-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST PAR W
359-020-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST PAR W
359-020-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RESERVE WEST PAR W
359-020-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST PAR W
359-020-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RESERVE WEST PAR W
359-020-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RESERVE WEST PAR W
359-020-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST PAR W
359-020-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST PAR W
359-020-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST PAR W
359-020-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST PAR W
359-020-037-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 34 HIGHLAND RESERVE WEST PA
359-020-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR L 24 HIGHLAND RESERVE WEST PAR
359-020-041-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	L 23 & P L 24 HIGHLAND RESERVE WEST
359-020-042-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	L3 HIGHLND RES WEST W-92 & POR L 47
359-020-043-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	L5 HIGHLND RES WEST W-92 & POR L47
359-020-044-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	L6 HIGHLND RES WEST W-92 & POR L47
359-030-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RESERVE WEST PAR W
359-030-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RESERVE WEST PAR W
359-030-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST PAR W
359-030-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST PAR W
359-030-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST PAR W
359-030-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE WEST PAR W
359-030-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RESERVE WEST PAR W
359-030-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RESERVE WEST PAR W
359-030-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST PAR W
359-030-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RESERVE WEST PAR W
359-030-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 HIGHLAND RESERVE WEST PAR W
359-030-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 HIGHLAND RESERVE WEST PAR W
359-030-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 HIGHLAND RESERVE WEST PAR W
359-030-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 HIGHLAND RESERVE WEST PAR W
359-030-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 HIGHLAND RESERVE WEST PAR W
359-030-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 HIGHLAND RESERVE WEST PAR W
359-030-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 HIGHLAND RESERVE WEST PAR W
359-030-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RESERVE WEST PAR W
359-030-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RESERVE WEST PAR W
359-040-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PCL R M
359-040-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PCL R M
359-040-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PCL R M
359-040-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PCL R M
359-040-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PCL R M
359-040-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PCL R M
359-040-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PCL R M
359-040-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PCL R M
359-040-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PCL R M
359-040-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PCL R
359-040-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PCL R

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359-040-059-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 HIGHLAND RESERVE WEST PCL R
359-040-060-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 HIGHLAND RESERVE WEST PCL R
359-040-061-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 HIGHLAND RESERVE WEST PCL R
359-040-062-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 HIGHLAND RESERVE WEST PCL R
359-040-063-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 HIGHLAND RESERVE WEST PCL R
359-040-064-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 64 HIGHLAND RESERVE WEST PCL R
359-040-065-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 HIGHLAND RESERVE WEST PCL R
359-040-066-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 66 HIGHLAND RESERVE WEST PCL R
359-040-067-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 67 HIGHLAND RESERVE WEST PCL R
359-040-068-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 68 HIGHLAND RESERVE WEST PCL R
359-040-069-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 69 HIGHLAND RESERVE WEST PCL R
359-040-070-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 70 HIGHLAND RESERVE WEST PCL R
359-040-071-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 71 HIGHLAND RESERVE WEST PCL R
359-040-072-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Landscaping	LOT A PUBLIC UTILITY/LANDSCAPE EASE
359-040-073-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Landscaping	LOT B PUBLIC UTILITY/LANDSCAPE EASE
359-050-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 PROMONTORY POINTE UNIT #2 SUB
359-050-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 PROMONTORY POINTE UNIT #2 SUB
359-050-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 PROMONTORY POINTE UNIT #2 SUB
359-050-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 PROMONTORY POINTE UNIT #2 SUB
359-050-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 PROMONTORY POINTE UNIT #2 SUB
359-050-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 PROMONTORY POINTE UNIT #2 SUB
359-050-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 PROMONTORY POINTE UNIT #2 SUB
359-050-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 PROMONTORY POINTE UNIT #2 SUB
359-050-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 PROMONTORY POINTE UNIT #2 SUB
359-050-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 PROMONTORY POINTE UNIT #2 SU
359-050-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 PROMONTORY POINTE UNIT #2 SU
359-050-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 PROMONTORY POINTE UNIT #2 SU
359-050-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 PROMONTORY POINTE UNIT #2 SU
359-050-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 PROMONTORY POINTE UNIT #2 SU
359-050-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 PROMONTORY POINTE UNIT #2 SU
359-050-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 PROMONTORY POINTE UNIT #2 SU
359-050-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 PROMONTORY POINTE UNIT #2 SU
359-050-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 PROMONTORY POINTE UNIT #2 SU
359-050-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 PROMONTORY POINTE UNIT #2 SU
359-050-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 PROMONTORY POINTE UNIT #2 SU
359-050-021-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	P LOT A OPEN SPACE PROMONTORY POINT
359-050-022-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	LOT C OPEN SPACE PROMONTORY POINTE
359-060-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 PROMONTORY POINTE UNIT #2 SU
359-060-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 PROMONTORY POINTE UNIT #2 S
359-060-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 PROMONTORY POINTE UNIT #2 S
359-060-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 PROMONTORY POINTE UNIT #2 S
359-060-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 PROMONTORY POINTE UNIT #2 SU
359-060-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 PROMONTORY POINTE UNIT #2 SU
359-060-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 PROMONTORY POINTE UNIT #2 SU
359-060-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 PROMONTORY POINTE UNIT #2 S
359-060-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 PROMONTORY POINTE UNIT #2 S
359-060-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 PROMONTORY POINTE UNIT #2 S

City of Roseville
North Central Roseville Specific Plan Landscaping and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
359-060-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 PROMONTORY POINTE UNIT #2 S
359-060-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 PROMONTORY POINTE UNIT #2 S
359-060-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 PROMONTORY POINTE UNIT #2 S
359-060-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 PROMONTORY POINTE UNIT #2 S
359-060-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 PROMONTORY POINTE UNIT #2 S
359-060-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 PROMONTORY POINTE UNIT #2 S
359-060-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 PROMONTORY POINTE UNIT #2 S
359-060-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 PROMONTORY POINTE UNIT #2 S
359-060-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 PROMONTORY POINTE UNIT #2 SU
359-060-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 PROMONTORY POINTE UNIT #2 SU
359-060-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 PROMONTORY POINTE UNIT #2 SU
359-060-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 PROMONTORY POINTE UNIT #2 SU
359-060-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 PROMONTORY POINTE UNIT #2 SU
359-060-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 PROMONTORY POINTE UNIT #2 SU
359-060-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 PROMONTORY POINTE UNIT #2 SU
359-060-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 PROMONTORY POINTE UNIT #2 SU
359-060-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 PROMONTORY POINTE UNIT #2 SU
359-060-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 PROMONTORY POINTE UNIT #2 SU
359-060-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 PROMONTORY POINTE UNIT #2 SU
359-060-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 PROMONTORY POINTE UNIT #2 S
359-060-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 PROMONTORY POINTE UNIT #2 S
359-060-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 PROMONTORY POINTE UNIT #2 S
359-060-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 PROMONTORY POINTE UNIT #2 S
359-060-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 PROMONTORY POINTE UNIT #2 S
359-060-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 PROMONTORY POINTE UNIT #2 S
359-060-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 PROMONTORY POINTE UNIT #2 S
359-060-037-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	P LOT A OPEN SPACE PROMONTORY POINT
359-060-038-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	LOT B OPEN SPACE PROMONTORY POINTE
360-010-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST PAR I
360-010-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RESERVE WEST PAR I
360-010-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RESERVE WEST PAR I
360-010-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST PAR I
360-010-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST PAR I
360-010-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST PAR I
360-010-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST PAR I
360-010-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST PAR I
360-010-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RESERVE WEST PAR I
360-010-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RESERVE WEST PAR I
360-010-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST PAR I
360-010-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST PAR I
360-010-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST PAR I
360-010-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE WEST PAR I
360-010-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RESERVE WEST PAR I
360-010-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RESERVE WEST PAR I
360-010-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST PAR I
360-010-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RESERVE WEST PAR I
360-010-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 HIGHLAND RESERVE WEST PAR I

**North Central Roseville Specific Plan Landscaping and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll**

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Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
360-020-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST PAR I
360-020-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST PAR I
360-020-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT28 HIGHLAND RESERVE WEST PAR I M
360-020-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 70 HIGHLAND RESERVE WEST PAR I
360-020-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 71 HIGHLAND RESERVE WEST PAR I
360-020-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 72 HIGHLAND RESERVE WEST PAR I
360-020-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 73 HIGHLAND RESERVE WEST PAR I
360-020-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 74 HIGHLAND RESERVE WEST PAR I
360-020-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 75 HIGHLAND RESERVE WEST,PAR.I
360-030-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PAR D P
360-030-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PAR D P
360-030-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PAR D P
360-030-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PAR D P
360-030-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PAR D P
360-030-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PAR D P
360-030-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PAR D P
360-030-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PAR D P
360-030-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PAR D P
360-030-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PAR D
360-030-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PAR D
360-030-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PAR D
360-030-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PAR D
360-030-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PAR D
360-030-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PAR D
360-030-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST PAR D
360-030-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST PAR D
360-030-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST PAR D
360-030-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RESERVE WEST PAR D
360-030-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RESERVE WEST PAR D
360-030-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RESERVE WEST PAR D
360-030-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RESERVE WEST PAR D
360-030-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST PAR D
360-030-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST PAR D
360-030-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST PAR D
360-030-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RESERVE WEST PAR D
360-030-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST PAR D
360-030-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RESERVE WEST PAR D
360-030-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RESERVE WEST PAR D
360-030-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST PAR D
360-030-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST PAR D
360-030-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST PAR D
360-030-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST PAR D
360-030-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST PAR D
360-030-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RESERVE WEST PAR D
360-030-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RESERVE WEST PAR D
360-030-037-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST PAR D
360-030-038-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST PAR D

City of Roseville

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
360-030-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST PAR D
360-030-040-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE WEST PAR D
360-030-041-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT A OPEN SPACE MOR W-50
360-040-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST PAR E
360-040-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RESERVE WEST PAR E
360-040-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST PAR E
360-040-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RESERVE WEST PAR E
360-040-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RESERVE WEST PAR E
360-040-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST PAR E
360-040-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST PAR E
360-040-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST PAR E
360-040-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST PAR E
360-040-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST PAR E
360-040-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RESERVE WEST PAR E
360-040-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RESERVE WEST PAR E
360-040-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST PAR E
360-040-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST PAR E
360-040-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST PAR E
360-040-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE WEST PAR E
360-040-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RESERVE WEST PAR E
360-040-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RESERVE WEST PAR E
360-040-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST PAR E
360-040-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RESERVE WEST PAR E
360-040-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 HIGHLAND RESERVE WEST PAR E
360-040-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 HIGHLAND RESERVE WEST PAR E
360-040-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 HIGHLAND RESERVE WEST PAR E
360-040-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 HIGHLAND RESERVE WEST PAR E
360-040-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 HIGHLAND RESERVE WEST PAR E
360-040-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 HIGHLAND RESERVE WEST PAR E
360-040-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 HIGHLAND RESERVE WEST PAR E
360-040-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RESERVE WEST PAR E
360-040-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RESERVE WEST PAR E
360-040-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 HIGHLAND RESERVE WEST PAR E
360-040-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 HIGHLAND RESERVE WEST PAR E
360-040-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 HIGHLAND RESERVE WEST PAR E
360-040-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 HIGHLAND RESERVE WEST PAR E
360-040-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 HIGHLAND RESERVE WEST PAR E
360-040-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 HIGHLAND RESERVE WEST PAR E
360-040-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 HIGHLAND RESERVE WEST PAR E
360-040-037-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 HIGHLAND RESERVE WEST PAR E
360-040-038-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 64 HIGHLAND RESERVE WEST PAR E
360-040-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 HIGHLAND RESERVE WEST PAR E
360-040-040-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 66 HIGHLAND RESERVE WEST PAR E
360-040-041-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 67 HIGHLAND RESERVE WEST PAR E
360-040-042-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 68 HIGHLAND RESERVE WEST PAR E
360-040-043-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 69 HIGHLAND RESERVE WEST PAR E
360-040-044-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 70 HIGHLAND RESERVE WEST PAR E

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
360-051-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PCLS F
360-051-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PCLS F
360-051-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PCLS F
360-051-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PCLS F
360-051-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PCLS F
360-051-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PCLS F
360-051-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PCLS F
360-051-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PCLS F
360-051-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PCLS F
360-051-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PCLS F
360-051-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PCLS F
360-051-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PCLS F
360-051-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PCLS F
360-051-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PCLS F
360-051-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PCLS F
360-051-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST PCLS F
360-051-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST PCLS F
360-051-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST PCLS F
360-051-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST PCLS F
360-051-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST PCLS F
360-051-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RESERVE WEST PCLS F
360-051-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RESERVE WEST PCLS F
360-051-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RESERVE WEST PCLS F
360-051-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RESERVE WEST PCLS F
360-051-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST PCLS F
360-051-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST PCLS F
360-051-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST PCLS F
360-051-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RESERVE WEST PCLS F
360-051-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST PCLS F
360-051-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST PCLS F
360-051-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST PCLS F
360-051-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST PCLS F
360-051-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST PCLS F
360-051-036-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Drainage Easement	LOT A DRAINAGE EASEMENT X-62
360-051-037-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT B OPEN SPACE X-62
360-051-038-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 & P 31 HIGHLAND RESV WEST PC
360-051-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 31 HIGHLAND RESV WEST PCLS
360-052-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RESERVE WEST PCLS F
360-052-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST PCLS F
360-052-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RESERVE WEST PCLS F
360-052-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 HIGHLAND RESERVE WEST PCLS F
360-052-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 HIGHLAND RESERVE WEST PCLS F
360-052-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 HIGHLAND RESERVE WEST PCLS F
360-052-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 HIGHLAND RESERVE WEST PCLS F
360-052-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 HIGHLAND RESERVE WEST PCLS F
360-052-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 HIGHLAND RESERVE WEST PCLS F
360-052-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 HIGHLAND RESERVE WEST PCLS F

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
360-052-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RESERVE WEST PCLS F
360-052-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RESERVE WEST PCLS F
360-052-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 HIGHLAND RESERVE WEST PCLS F
360-052-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 HIGHLAND RESERVE WEST PCLS F
360-052-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 HIGHLAND RESERVE WEST PCLS F
360-052-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 HIGHLAND RESERVE WEST PCLS F
360-052-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 HIGHLAND RESERVE WEST PCLS F
360-052-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 HIGHLAND RESERVE WEST PCLS F
360-052-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 42 HIGHLAND RESV WEST PCLS
360-052-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 & P 42 HIGHLAND RESV WEST P
360-053-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 HIGHLAND RESERVE WEST PCLS F
360-053-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 HIGHLAND RESERVE WEST PCLS F
360-053-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 64 HIGHLAND RESERVE WEST PCLS F
360-053-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 HIGHLAND RESERVE WEST PCLS F
360-053-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 66 HIGHLAND RESERVE WEST PCLS F
360-053-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 67 HIGHLAND RESERVE WEST PCLS F
360-053-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 68 HIGHLAND RESERVE WEST PCLS F
360-053-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 69 HIGHLAND RESERVE WEST PCLS F
360-053-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 70 HIGHLAND RESERVE WEST PCLS F
360-053-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 71 HIGHLAND RESERVE WEST PCLS F
360-053-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 72 HIGHLAND RESERVE WEST PCLS F
360-053-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 73 HIGHLAND RESERVE WEST PCLS F
360-053-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 74 HIGHLAND RESERVE WEST PCLS F
360-053-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 75 HIGHLAND RESERVE WEST PCLS F
360-053-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 76 HIGHLAND RESERVE WEST PCLS F
360-053-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 77 HIGHLAND RESERVE WEST PCLS F
360-053-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 78 HIGHLAND RESERVE WEST PCLS F
360-053-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 79 HIGHLAND RESERVE WEST PCLS F
360-053-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 80 HIGHLAND RESERVE WEST PCLS F
360-053-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 81 HIGHLAND RESERVE WEST PCLS F
360-053-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 82 HIGHLAND RESERVE WEST PCLS F
360-053-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 83 HIGHLAND RESERVE WEST PCLS F
360-054-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 84 HIGHLAND RESERVE WEST PCLS F
360-054-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 85 HIGHLAND RESERVE WEST PCLS F
360-054-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 86 HIGHLAND RESERVE WEST PCLS F
360-054-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 89 HIGHLAND RESERVE WEST PCLS F
360-054-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 90 HIGHLAND RESERVE WEST PCLS F
360-054-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 91 HIGHLAND RESERVE WEST PCLS F
360-054-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 92 HIGHLAND RESERVE WEST PCLS F
360-054-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 87 HIGHLAND RESERVE WEST PA
360-054-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 88&P 87 HIGHLAND RESERVE WEST P
360-055-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 101 HIGHLAND RESERVE WEST PCLS
360-055-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 102 HIGHLAND RESERVE WEST PCLS
360-055-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 103 HIGHLAND RESERVE WEST PCLS
360-055-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 104 HIGHLAND RESERVE WEST PCLS
360-055-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 105 HIGHLAND RESERVE WEST PCLS
360-055-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 106 HIGHLAND RESERVE WEST PCLS

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
360-055-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 107 HIGHLAND RESERVE WEST PCLS
360-055-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 108 HIGHLAND RESERVE WEST PCLS
360-055-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 109 HIGHLAND RESERVE WEST PCLS
360-055-010-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	POR LOT C OPEN SPACE X-62
360-060-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST PCLS F
360-060-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RESERVE WEST PCLS F
360-060-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RESERVE WEST PCLS F
360-060-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST PCLS F
360-060-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST PCLS F
360-060-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST PCLS F
360-060-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 93 HIGHLAND RESERVE WEST PCLS F
360-060-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 94 HIGHLAND RESERVE WEST PCLS F
360-060-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 95 HIGHLAND RESERVE WEST PCLS F
360-060-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 96 HIGHLAND RESERVE WEST PCLS F
360-060-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 97 HIGHLAND RESERVE WEST PCLS F
360-060-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 98 HIGHLAND RESERVE WEST PCLS F
360-060-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 99 HIGHLAND RESERVE WEST PCLS F
360-060-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 100 HIGHLAND RESERVE WEST PCLS
360-060-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 110 HIGHLAND RESERVE WEST PCLS
360-060-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 111 HIGHLAND RESERVE WEST PCLS
360-060-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 112 HIGHLAND RESERVE WEST PCLS
360-060-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 113 HIGHLAND RESERVE WEST PCLS
360-060-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 114 HIGHLAND RESERVE WEST PCLS
360-060-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 115 HIGHLAND RESERVE WEST PCLS
360-060-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 116 HIGHLAND RESERVE WEST PCLS
360-060-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 117 HIGHLAND RESERVE WEST PCLS
360-060-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 118 HIGHLAND RESERVE WEST PCLS
360-060-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 119 HIGHLAND RESERVE WEST PCLS
360-060-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 120 HIGHLAND RESERVE WEST PCLS
360-060-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 121 HIGHLAND RESERVE WEST PCLS
360-060-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 122 HIGHLAND RESERVE WEST PCLS
360-060-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 123 HIGHLAND RESERVE WEST PCLS
360-060-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 124 HIGHLAND RESERVE WEST PCLS
360-060-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 125 HIGHLAND RESERVE WEST PCLS
360-060-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 126 HIGHLAND RESERVE WEST PCLS
360-060-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 127 HIGHLAND RESERVE WEST PCLS
360-060-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 128 HIGHLAND RESERVE WEST PCLS
360-060-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 129 HIGHLAND RESERVE WEST PCLS
360-060-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 130 HIGHLAND RESERVE WEST PCLS
360-060-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 131 HIGHLAND RESERVE WEST PCLS
360-060-037-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 132 HIGHLAND RESERVE WEST PCLS
360-060-038-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 133 HIGHLAND RESERVE WEST PCLS
360-060-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 134 HIGHLAND RESERVE WEST PCLS
360-060-040-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 135 HIGHLAND RESERVE WEST PCLS
360-060-041-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 136 HIGHLAND RESERVE WEST PCLS
360-060-042-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 137 HIGHLAND RESERVE WEST PCLS
360-060-043-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 138 HIGHLAND RESERVE WEST PCLS

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360-060-044-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 139 HIGHLAND RESERVE WEST PCLS
360-060-045-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 140 HIGHLAND RESERVE WEST PCLS
360-060-046-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 141 HIGHLAND RESERVE WEST PCLS
360-060-047-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 142 HIGHLAND RESERVE WEST PCLS
360-060-048-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 143 HIGHLAND RESERVE WEST PCLS
360-060-049-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 144 HIGHLAND RESERVE WEST PCLS
360-060-050-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 145 HIGHLAND RESERVE WEST PCLS
360-060-051-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 146 HIGHLAND RESERVE WEST PCLS
360-060-052-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 147 HIGHLAND RESERVE WEST PCLS
360-060-053-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 148 HIGHLAND RESERVE WEST PCLS
360-060-054-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 149 HIGHLAND RESERVE WEST PCLS
360-060-055-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 150 HIGHLAND RESERVE WEST PCLS
360-060-056-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	POR LOT C OPEN SPACE X-62
360-060-057-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT D OPEN SPACE X-62
360-060-058-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	LOT E OPEN SPACE X-62
361-010-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1111THE RESERVES@GALLERIA PH3 CON
361-010-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1112 THE RESERVES@GALLERIA PH3 CO
361-010-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1113THE RESERVES@GALLERIA PH3 CON
361-010-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1114THE RESERVES@GALLERIA PH3 CON
361-010-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1121THE RESERVES@GALLERIA PH3 CON
361-010-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1122THE RESERVES@GALLERIA PH3 CON
361-010-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1123THE RESERVES@GALLERIA PH3 CON
361-010-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1124THE RESERVES@GALLERIA PH3 CON
361-010-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1211THE RESERVES@GALLERIA PH3 CON
361-010-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1212 THE RESERVES@GALLERIA PH3 CO
361-010-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1213THE RESERVES@GALLERIA PH3 C
361-010-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1214THE RESERVES@GALLERIA PH3 CON
361-010-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1221THE RESERVES@GALLERIA PH3 CON
361-010-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1222THE RESERVES@GALLERIA PH3 CON
361-010-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1223THE RESERVES@GALLERIA PH3 CON
361-010-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1224THE RESERVES@GALLERIA PH3 CON
361-010-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1311THE RESERVES@GALLERIA PH3 CON
361-010-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1312THE RESERVES@GALLERIA PH3 CON
361-010-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1313 HE RESERVES@GALLERIA PH3 CON
361-010-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1314THE RESERVES@GALLERIA PH3 CON
361-010-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1321THE RESERVES@GALLERIA PH3 CON
361-010-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L1322 THE RESERVES@GALLERIA PH3 CON
361-010-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1323THE RESERVES@GALLERIA PH3 CON
361-010-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1324THE RESERVES@GALLERIA PH3 CON
361-010-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1411THE RESERVES@GALLERIA PH3 CON
361-010-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1412THE RESERVES@GALLERIA PH3 CON
361-010-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1413THE RESERVES@GALLERIA PH3 CON
361-010-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1414THE RESERVES@GALLERIA PH3 CON
361-010-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1421THE RESERVES@GALLERIA PH3 CON
361-010-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1422THE RESERVES@GALLERIA PH3 CON
361-010-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1423THE RESERVES@GALLERIA PH3 CON
361-010-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1424THE RESERVES@GALLERIA PH3 C

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-010-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1511THE RESERVES@GALLERIA PH3 C
361-010-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1512THE RESERVES@GALLERIA PH3 C
361-010-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1513THE RESERVES@GALLERIA PH3 C
361-010-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1514THE RESERVES@GALLERIA PH3 C
361-010-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1521THE RESERVES@GALLERIA PH3 C
361-010-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1522THE RESERVES@GALLERIA PH3 C
361-010-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1523THE RESERVES@GALLERIA PH3 C
361-010-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1524THE RESERVES@GALLERIA PH3 C
361-010-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1611THE RESERVES@GALLERIA PH3 C
361-010-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1612THE RESERVES@GALLERIA PH3 C
361-010-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1613THE RESERVES@GALLERIA PH3 C
361-010-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1614THE RESERVES@GALLERIA PH3 C
361-010-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1621THE RESERVES@GALLERIA PH3 C
361-010-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1622THE RESERVES@GALLERIA PH3 C
361-010-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1623THE RESERVES@GALLERIA PH3 C
361-010-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1624 THE RESEVES@GALLERIA PH3 C
361-010-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1711THE RESERVES@GALLERIA PH3 C
361-010-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1712THE RESERVES@GALLERIA PH3 C
361-010-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1713THE RESERVES@GALLERIA PH3 C
361-010-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1714THE RESERVES@GALLERIA PH3 C
361-010-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1721THE RESERVES@GALLERIA PH3 C
361-010-054-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1722THE RESERVES@GALLERIA PH3 C
361-010-055-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1723THE RESERVES@GALLERIA PH3 C
361-010-056-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1724THE RESERVES@GALLERIA PH3 C
361-010-057-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1811THE RESERVES@GALLERIA PH3 C
361-010-058-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1812THE RESERVES@GALLERIA PH3 C
361-010-059-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1813THE RESERVES@GALLERIA PH3 C
361-010-060-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1814THE RESERVES@GALLERIA PH3 C
361-010-061-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1821THE RESERVES@GALLERIA PH3 C
361-010-062-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1822THE RESERVES@GALLERIA PH3 C
361-010-063-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1823 HE RESERVES@GALLERIA PH3 C
361-010-064-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LOT 1824THE RESERVES@GALLERIA PH3 C
361-010-065-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	1.0 AC LOT 6 COMMON AREA THE RESERV
361-010-066-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	LOT 8 COMMON AREA THE RESERVES@GALL
361-010-067-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	LOT 9 COMMON AREA THE RESERVES@GALL
361-020-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 811 THE RESERVES @ GALLERIA PH2 C
361-020-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 812 THE RESERVES @ GALLERIA PH2 C
361-020-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 813 THE RESERVES @ GALLERIA PH2 C
361-020-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 814 THE RESERVES @ GALLERIA PH2 C
361-020-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 821 THE RESERVES @ GALLERIA PH2 C
361-020-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 822 THE RESERVES @ GALLERIA PH2 C
361-020-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 823 THE RESERVES @ GALLERIA PH2 C
361-020-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 824 THE RESERVES @ GALLERIA PH2 C
361-020-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 911 THE RESERVES @ GALLERIA PH2 C
361-020-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 913 THE RESERVES @ GALLERIA PH2 C
361-020-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1011 THE RESERVES@ GALLERIA PH2 C
361-020-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1012 THE RESERVES@ GALLERIA PH2 C

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361-020-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1013 THE RESERVES@ GALLERIA PH2 C
361-020-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1014 THE RESERVES@ GALLERIA PH2 C
361-020-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1021 THE RESERVES@ GALLERIA PH2 C
361-020-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1022 THE RESERVES@ GALLERIA PH2 C
361-020-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1023 THE RESERVES@ GALLERIA PH2 C
361-020-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1024 THE RESERVES@ GALLERIA PH2 C
361-020-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1911 THE RESERVES@ GALLERIA PH2 C
361-020-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1912 THE RESERVES@ GALLERIA PH2 C
361-020-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1913 THE RESERVES@ GALLERIA PH2 C
361-020-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1914 THE RESERVES@ GALLERIA PH2 C
361-020-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1921 THE RESERVES@ GALLERIA PH2 C
361-020-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1922 THE RESERVES@ GALLERIA PH2 C
361-020-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1923 THE RESERVES@ GALLERIA PH2 C
361-020-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 1924 THE RESERVES@ GALLERIA PH2 C
361-020-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2011 THE RESERVES@ GALLERIA PH2 C
361-020-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2012 THE RESERVES@ GALLERIA PH2 C
361-020-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2013 THE RESERVES@ GALLERIA PH2 C
361-020-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2014 THE RESERVES@ GALLERIA PH2 C
361-020-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2021 THE RESERVES@ GALLERIA PH2 C
361-020-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2022 THE RESERVES@ GALLERIA PH2 C
361-020-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2023 THE RESERVES@ GALLERIA PH2 C
361-020-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2024 THE RESERVES@ GALLERIA PH2 C
361-020-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2111 THE RESERVES@ GALLERIA PH2 C
361-020-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2112 THE RESERVES@ GALLERIA PH2 C
361-020-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2113 THE RESERVES@ GALLERIA PH2 C
361-020-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2114 THE RESERVES@ GALLERIA PH2 C
361-020-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2121 THE RESERVES@ GALLERIA PH2 C
361-020-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2122 THE RESERVES@ GALLERIA PH2 C
361-020-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2123 THE RESERVES@ GALLERIA PH2 C
361-020-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2124 THE RESERVES@ GALLERIA PH2 C
361-020-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2211 THE RESERVES@ GALLERIA PH2 C
361-020-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2212 THE RESERVES@ GALLERIA PH2 C
361-020-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2213 THE RESERVES@ GALLERIA PH2 C
361-020-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2214 THE RESERVES@ GALLERIA PH2 C
361-020-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2221 THE RESERVES@ GALLERIA PH2 C
361-020-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2222 THE RESERVES@ GALLERIA PH2 C
361-020-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2223 THE RESERVES@ GALLERIA PH2 C
361-020-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2224 THE RESERVES@ GALLERIA PH2 C
361-020-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2311 THE RESERVES@ GALLERIA PH2 C
361-020-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2312 THE RESERVES@ GALLERIA PH2 C
361-020-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2313 THE RESERVES@ GALLERIA PH2 C
361-020-054-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2314 THE RESERVES@ GALLERIA PH2 C
361-020-055-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2321 THE RESERVES@ GALLERIA PH2 C
361-020-056-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2322 THE RESERVES@ GALLERIA PH2 C
361-020-057-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2323 THE RESERVES@ GALLERIA PH2 C
361-020-058-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2324 THE RESERVES@ GALLERIA PH2 C
361-020-059-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	LOT 5 COMMON AREA THE RESERVES @ GA

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-020-060-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	LOT 7 COMMON AREA THE RESERVES @ GA
361-020-061-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	1.1 AC LT 10 COMMON AREA THE RESERV
361-030-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 211 THE RESERVES@GALLERIA PH 1B C
361-030-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 212 THE RESERVES@GALLERIA PH 1B C
361-030-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 213 THE RESERVES@GALLERIA PH 1B C
361-030-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 214 THE RESERVES@GALLERIA PH 1B C
361-030-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 221 THE RESERVES@GALLERIA PH 1B C
361-030-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 222 THE RESERVES@GALLERIA PH 1B C
361-030-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 223 THE RESERVES@GALLERIA PH 1B C
361-030-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 224 THE RESERVES@GALLERIA PH 1B C
361-030-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 311 THE RESERVES@GALLERIA PH 1B C
361-030-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 312 THE RESERVES@GALLERIA PH 1B C
361-030-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 313 THE RESERVES@GALLERIA PH 1B C
361-030-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 314 THE RESERVES@GALLERIA PH 1B C
361-030-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 321 THE RESERVES@GALLERIA PH 1B C
361-030-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 322 THE RESERVES@GALLERIA PH 1B C
361-030-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 323 THE RESERVES@GALLERIA PH 1B C
361-030-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 324 THE RESERVES@GALLERIA PH 1B C
361-030-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 411 THE RESERVES@GALLERIA PH 1B C
361-030-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 412 THE RESERVES@GALLERIA PH 1B C
361-030-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 413 THE RESERVES@GALLERIA PH 1B C
361-030-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 414 THE RESERVES@GALLERIA PH 1B C
361-030-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 421 THE RESERVES@GALLERIA PH 1B C
361-030-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 422 THE RESERVES@GALLERIA PH 1B C
361-030-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 423 THE RESERVES@GALLERIA PH 1B C
361-030-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 424 THE RESERVES@GALLERIA PH 1B C
361-030-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 511 THE RESERVES@GALLERIA PH 1B C
361-030-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 512 THE RESERVES@GALLERIA PH 1B C
361-030-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 513 THE RESERVES@GALLERIA PH 1B C
361-030-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 514 THE RESERVES@GALLERIA PH 1B C
361-030-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 521 THE RESERVES@GALLERIA PH 1B C
361-030-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 522 THE RESERVES@GALLERIA PH 1B C
361-030-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 523 THE RESERVES@GALLERIA PH 1B C
361-030-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 524 THE RESERVES@GALLERIA PH 1B C
361-030-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 611 THE RESERVES@GALLERIA PH 1B C
361-030-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 612 THE RESERVES@GALLERIA PH 1B C
361-030-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 613 THE RESERVES@GALLERIA PH 1B C
361-030-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 614 THE RESERVES@GALLERIA PH 1B C
361-030-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 621 THE RESERVES@GALLERIA PH 1B C
361-030-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 622 THE RESERVES@GALLERIA PH 1B C
361-030-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 623 THE RESERVES@GALLERIA PH 1B C
361-030-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 624 THE RESERVES@GALLERIA PH 1B C
361-030-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 711 THE RESERVES@GALLERIA PH 1B C
361-030-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 712 THE RESERVES@GALLERIA PH 1B C
361-030-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 713 THE RESERVES@GALLERIA PH 1B C
361-030-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 714 THE RESERVES@GALLERIA PH 1B C
361-030-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 721 THE RESERVES@GALLERIA PH 1B C

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-030-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 722 THE RESERVES@GALLERIA PH 1B C
361-030-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 723 THE RESERVES@GALLERIA PH 1B C
361-030-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 724 THE RESERVES@GALLERIA PH 1B C
361-030-049-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	1.1 AC L 2 COMMON AREA THE RESERVES
361-030-050-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	1.4 AC L 3 COMMON AREA THE RESERVES
361-040-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2411 THE RESERVES@GALLERIA PH1A C
361-040-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2412 THE RESERVES@GALLERIA PH1A C
361-040-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2413 THE RESERVES@GALLERIA PH1A C
361-040-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2414 THE RESERVES@GALLERIA PH1A C
361-040-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2421 THE RESERVES@GALLERIA PH1A C
361-040-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2422 THE RESERVES@GALLERIA PH1A C
361-040-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2423 THE RESERVES@GALLERIA PH1A C
361-040-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2424 THE RESERVES@GALLERIA PH1A C
361-040-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2511 THE RESERVES@GALLERIA PH1A C
361-040-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2512 THE RESERVES@GALLERIA PH1A C
361-040-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2513 THE RESERVES@GALLERIA PH1A C
361-040-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2514 THE RESERVES@GALLERIA PH1A C
361-040-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2521 THE RESERVES@GALLERIA PH1A C
361-040-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2522 THE RESERVES@GALLERIA PH1A C
361-040-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2523 THE RESERVES@GALLERIA PH1A C
361-040-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2524 THE RESERVES@GALLERIA PH1A C
361-040-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2611 THE RESERVES@GALLERIA PH1A C
361-040-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2612 THE RESERVES@GALLERIA PH1A C
361-040-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2613 THE RESERVES@GALLERIA PH1A C
361-040-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2614 THE RESERVES@GALLERIA PH1A C
361-040-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2621 THE RESERVES@GALLERIA PH1A C
361-040-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2622 THE RESERVES@GALLERIA PH1A C
361-040-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2623 THE RESERVES@GALLERIA PH1A C
361-040-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	U 2624 THE RESERVES@GALLERIA PH1A C
361-040-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2711 THE RESERVES@GALLERIA PH1A C
361-040-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2712 THE RESERVES@GALLERIA PH1A C
361-040-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2713 THE RESERVES@GALLERIA PH1A C
361-040-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2714 THE RESERVES@GALLERIA PH1A C
361-040-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2721 THE RESERVES@GALLERIA PH1A C
361-040-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2722 THE RESERVES@GALLERIA PH1A C
361-040-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2723 THE RESERVES@GALLERIA PH1A C
361-040-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	L 2724 THE RESERVES@GALLERIA PH1A C
361-040-033-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	1.1 AC LT 1 COMMON AREA THE RESERVE
361-040-034-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	L 3 COMMON AREA THE RESERVES @ GALL
361-050-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 211 VILLAGE OF THE GALLERIA CON
361-050-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 212 VILLAGE OF THE GALLERIA CON
361-050-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 213 VILLAGE OF THE GALLERIA CON
361-050-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 214 VILLAGE OF THE GALLERIA CON
361-050-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 215 VILLAGE OF THE GALLERIA CON
361-050-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 216 VILLAGE OF THE GALLERIA CON
361-050-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 217 VILLAGE OF THE GALLERIA CON
361-050-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 218 VILLAGE OF THE GALLERIA CON

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-050-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 221 VILLAGE OF THE GALLERIA CON
361-050-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 222 VILLAGE OF THE GALLERIA CON
361-050-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 223 VLG OFTHE GALLERIA CONDO PL
361-050-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 224 VLG OFTHE GALLERIA CONDO PL
361-050-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 225 VLG OFTHE GALLERIA CONDO PL
361-050-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 226VLG OFTHE GALLERIA CONDO PLN
361-050-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 227 VLG OFTHE GALLERIA CONDO PL
361-050-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 228 VLG OFTHE GALLERIA CONDO PL
361-050-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 233 VLG OFTHE GALLERIA CONDO PL
361-050-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 234 VLG OFTHE GALLERIA CONDO PL
361-050-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 235 VLG OFTHE GALLERIA CONDO PL
361-050-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 236 VLG OFTHE GALLERIA CONDO PL
361-050-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 411 VLG OFTHE GALLERIA CONDO PL
361-050-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 412 VLG OFTHE GALLERIA CONDO PL
361-050-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 413 VLG OFTHE GALLERIA CONDO PL
361-050-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 414 VLG OFTHE GALLERIA CONDO PL
361-050-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 415 VLG OFTHE GALLERIA CONDO PL
361-050-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 416 VLG OFTHE GALLERIA CONDO PL
361-050-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 417 VLG OFTHE GALLERIA CONDO PL
361-050-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 418 VLG OFTHE GALLERIA CONDO PL
361-050-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 421 VLG OFTHE GALLERIA CONDO PL
361-050-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 422 VLG OFTHE GALLERIA CONDO PL
361-050-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 423 VLG OFTHE GALLERIA CONDO PL
361-050-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 424 VLG OFTHE GALLERIA CONDO PL
361-050-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 425 VLG OFTHE GALLERIA CONDO PL
361-050-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 426 VLG OFTHE GALLERIA CONDO PL
361-050-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 427 VLG OFTHE GALLERIA CONDO PL
361-050-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 428 VLG OFTHE GALLERIA CONDO PL
361-050-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 433 VLG OFTHE GALLERIA CONDO PL
361-050-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 434VLG OFTHE GALLERIA CONDO PLN
361-050-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 435 VLG OFTHE GALLERIA CONDO PL
361-050-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 436 VLG OFTHE GALLERIA CONDO PL
361-050-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 611 VLG OFTHE GALLERIA CONDO PL
361-050-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 612 VLG OFTHE GALLERIA CONDO PL
361-050-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 613 VLG OFTHE GALLERIA CONDO PL
361-050-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 614 VLG OFTHE GALLERIA CONDO PL
361-050-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 615 VLG OFTHE GALLERIA CONDO PL
361-050-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 616 VLG OFTHE GALLERIA CONDO PL
361-050-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 617 VLG OFTHE GALLERIA CONDO PL
361-050-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 618 VLG OFTHE GALLERIA CONDO PL
361-050-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 621 VLG OFTHE GALLERIA CONDO PL
361-050-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 622 VLG OFTHE GALLERIA CONDO PL
361-050-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 623 VLG OFTHE GALLERIA CONDO PL
361-050-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 624 VLG OFTHE GALLERIA CONDO PL
361-050-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 625 VLG OFTHE GALLERIA CONDO PL
361-050-054-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 626 VLG OFTHE GALLERIA CONDO PL
361-050-055-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 627 VLG OFTHE GALLERIA CONDO PL

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-050-056-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 628 VLG OFTHE GALLERIA CONDO PL
361-050-057-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 633 VLG OFTHE GALLERIA CONDO PL
361-050-058-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 634 VLG OFTHE GALLERIA CONDO PL
361-050-059-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 635 VLG OFTHE GALLERIA CONDO PL
361-050-060-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 636 VLG OFTHE GALLERIA CONDO PL
361-050-061-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA2 COM AREA VLG OFTHE GALRIA COND
361-050-062-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA4 COM AREA VLG OFTHE GALRIA COND
361-050-063-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA6 COM AREA VLG OFTHE GALRIA COND
361-050-064-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-B COM AREA VLG OF GALRIA COND
361-060-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 511 VLG OFTHE GALLERIA CONDO PL
361-060-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 512 VLG OFTHE GALLERIA CONDO PL
361-060-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 513 VLG OFTHE GALLERIA CONDO PL
361-060-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 514 VLG OFTHE GALLERIA CONDO PL
361-060-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 515 VLG OFTHE GALLERIA CONDO PL
361-060-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 516 VLG OFTHE GALLERIA CONDO PL
361-060-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 517 VLG OFTHE GALLERIA CONDO PL
361-060-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 518 VLG OFTHE GALLERIA CONDO PL
361-060-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 521 VLG OFTHE GALLERIA CONDO PL
361-060-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 522 VLG OFTHE GALLERIA CONDO PL
361-060-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 523 VLG OFTHE GALLERIA CONDO PL
361-060-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 524 VLG OFTHE GALLERIA CONDO PL
361-060-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 525 VLG OFTHE GALLERIA CONDO PL
361-060-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 526 VLG OFTHE GALLERIA CONDO PL
361-060-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 527 VLG OFTHE GALLERIA CONDO PL
361-060-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 528 VLG OFTHE GALLERIA CONDO PL
361-060-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 533 VLG OFTHE GALLERIA CONDO PL
361-060-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 534 VLG OFTHE GALLERIA CONDO PL
361-060-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 535 VLG OFTHE GALLERIA CONDO PL
361-060-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 536 VLG OFTHE GALLERIA CONDO PL
361-060-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 711 VLG OFTHE GALLERIA CONDO PL
361-060-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 712 VLG OFTHE GALLERIA CONDO PL
361-060-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 713 VLG OFTHE GALLERIA CONDO PL
361-060-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 714 VLG OFTHE GALLERIA CONDO PL
361-060-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 715 VLG OFTHE GALLERIA CONDO PL
361-060-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 716 VLG OFTHE GALLERIA CONDO PL
361-060-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 717 VLG OFTHE GALLERIA CONDO PL
361-060-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 718 VLG OFTHE GALLERIA CONDO PL
361-060-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 721 VLG OFTHE GALLERIA CONDO PL
361-060-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 722 VLG OFTHE GALLERIA CONDO PL
361-060-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 723 VLG OFTHE GALLERIA CONDO PL
361-060-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 724 VLG OFTHE GALLERIA CONDO PL
361-060-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 725 VLG OFTHE GALLERIA CONDO PL
361-060-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 726 VLG OFTHE GALLERIA CONDO PL
361-060-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 727 VLG OFTHE GALLERIA CONDO PL
361-060-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 728 VLG OFTHE GALLERIA CONDO PL
361-060-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 733 VLG OFTHE GALLERIA CONDO PL
361-060-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 734 VLG OFTHE GALLERIA CONDO PL

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-060-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 735 VLG OFTHE GALLERIA CONDO PL
361-060-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 736 VLG OFTHE GALLERIA CONDO PL
361-060-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 911 VLG OFTHE GALLERIA CONDO PL
361-060-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 912 VLG OFTHE GALLERIA CONDO PL
361-060-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 913 VLG OFTHE GALLERIA CONDO PL
361-060-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 914 VLG OFTHE GALLERIA CONDO PL
361-060-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 915 VLG OFTHE GALLERIA CONDO PL
361-060-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 916 VLG OFTHE GALLERIA CONDO PL
361-060-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 917 VLG OFTHE GALLERIA CONDO PL
361-060-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 918 VLG OFTHE GALLERIA CONDO PL
361-060-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 921 VLG OFTHE GALLERIA CONDO PL
361-060-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 922 VLG OFTHE GALLERIA CONDO PL
361-060-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 923 VLG OFTHE GALLERIA CONDO PL
361-060-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 924 VLG OFTHE GALLERIA CONDO PL
361-060-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 925 VLG OFTHE GALLERIA CONDO PL
361-060-054-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 926 VLG OFTHE GALLERIA CONDO PL
361-060-055-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 927 VLG OFTHE GALLERIA CONDO PL
361-060-056-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 928 VLG OFTHE GALLERIA CONDO PL
361-060-057-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 933 VLG OFTHE GALLERIA CONDO PL
361-060-058-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 934 VLG OFTHE GALLERIA CONDO PL
361-060-059-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 935 VLG OFTHE GALLERIA CONDO PL
361-060-060-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 936 VLG OFTHE GALLERIA CONDO PL
361-060-061-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 811 VLG OFTHE GALLERIA CONDO PL
361-060-062-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 812 VLG OFTHE GALLERIA CONDO PL
361-060-063-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 813 VLG OFTHE GALLERIA CONDO PL
361-060-064-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 814 VLG OFTHE GALLERIA CONDO PL
361-060-065-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 815 VLG OFTHE GALLERIA CONDO PL
361-060-066-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 816 VLG OFTHE GALLERIA CONDO PL
361-060-067-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 817 VLG OFTHE GALLERIA CONDO PL
361-060-068-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 818 VLG OFTHE GALLERIA CONDO PL
361-060-069-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 821 VLG OFTHE GALLERIA CONDO PL
361-060-070-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 822 VLG OFTHE GALLERIA CONDO PL
361-060-071-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 823 VLG OFTHE GALLERIA CONDO PL
361-060-072-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 824 VLG OFTHE GALLERIA CONDO PL
361-060-073-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 825 VLG OFTHE GALLERIA CONDO PL
361-060-074-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 826 VLG OFTHE GALLERIA CONDO PL
361-060-075-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 827 VLG OFTHE GALLERIA CONDO PL
361-060-076-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 828 VLG OFTHE GALLERIA CONDO PL
361-060-077-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 833 VLG OFTHE GALLERIA CONDO PL
361-060-078-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 834 VLG OFTHE GALLERIA CONDO PL
361-060-079-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 835 VLG OFTHE GALLERIA CONDO PL
361-060-080-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 836 VLG OFTHE GALLERIA CONDO PL
361-060-081-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA5 COM AREA VLG OFTHE GALRIA COND
361-060-082-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA7 COM AREA VLG OFTHE GALRIA COND
361-060-083-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA8 COM AREA VLG OFTHE GALRIA COND
361-060-084-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA9 COM AREA VLG OFTHE GALRIA COND
361-060-085-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	ACAE COM AREA VLG OFTHE GALRIA COND

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361-070-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1218 VLG OFTHE GALLERIA CONDO P
361-070-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1221 VLG OFTHE GALLERIA CONDO P
361-070-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1222 VLG OFTHE GALLERIA CONDO P
361-070-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1223 VLG OFTHE GALLERIA CONDO P
361-070-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1224 VLG OFTHE GALLERIA CONDO P
361-070-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1225 VLG OFTHE GALLERIA CONDO P
361-070-054-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1226 VLG OFTHE GALLERIA CONDO P
361-070-055-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1227 VLG OFTHE GALLERIA CONDO P
361-070-056-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1228 VLG OFTHE GALLERIA CONDO P
361-070-057-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1233 VLG OFTHE GALLERIA CONDO P
361-070-058-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1234 VLG OFTHE GALLERIA CONDO P
361-070-059-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1235 VLG OFTHE GALLERIA CONDO P
361-070-060-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1236 VLG OFTHE GALLERIA CONDO P
361-070-061-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-10 COM AREA VLG OFTHE GALRIA CO
361-070-062-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-11 COM AREA VLG OFTHE GALRIA CO
361-070-063-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-12 COM AREA VLG OFTHE GALRIA CO
361-070-064-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-B COM AREA VLG OF GALRIA COND
361-080-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1311 VLG OFTHE GALLERIA CONDO P
361-080-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1312 VLG OFTHE GALLERIA CONDO P
361-080-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1313 VLG OFTHE GALLERIA CONDO P
361-080-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1314 VLG OFTHE GALLERIA CONDO P
361-080-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1315 VLG OFTHE GALLERIA CONDO P
361-080-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1316 VLG OFTHE GALLERIA CONDO P
361-080-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1317 VLG OFTHE GALLERIA CONDO P
361-080-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1318 VLG OFTHE GALLERIA CONDO P
361-080-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1321 VLG OFTHE GALLERIA CONDO P
361-080-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1322 VLG OFTHE GALLERIA CONDO P
361-080-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1323 VLG OFTHE GALLERIA CONDO P
361-080-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1324 VLG OFTHE GALLERIA CONDO P
361-080-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1325 VLG OFTHE GALLERIA CONDO P
361-080-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1326 VLG OFTHE GALLERIA CONDO P
361-080-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1327 VLG OFTHE GALLERIA CONDO P
361-080-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1328 VLG OFTHE GALLERIA CONDO P
361-080-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1333 VLG OFTHE GALLERIA CONDO P
361-080-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1334 VLG OFTHE GALLERIA CONDO P
361-080-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1335 VLG OFTHE GALLERIA CONDO P
361-080-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1336 VLG OFTHE GALLERIA CONDO P
361-080-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1511 VLG OFTHE GALLERIA CONDO P
361-080-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1512 VLG OFTHE GALLERIA CONDO P
361-080-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1513 VLG OFTHE GALLERIA CONDO P
361-080-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1514 VLG OFTHE GALLERIA CONDO P
361-080-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1515 VLG OFTHE GALLERIA CONDO P
361-080-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1516 VLG OFTHE GALLERIA CONDO P
361-080-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1517 VLG OFTHE GALLERIA CONDO P
361-080-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1518 VLG OFTHE GALLERIA CONDO P
361-080-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1521 VLG OFTHE GALLERIA CONDO P
361-080-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1522 VLG OFTHE GALLERIA CONDO P

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-080-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1523 VLG OFTHE GALLERIA CONDO P
361-080-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1524 VLG OFTHE GALLERIA CONDO P
361-080-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1525 VLG OFTHE GALLERIA CONDO P
361-080-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1526 VLG OFTHE GALLERIA CONDO P
361-080-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1527 VLG OFTHE GALLERIA CONDO P
361-080-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1528 VLG OFTHE GALLERIA CONDO P
361-080-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1533 VLG OFTHE GALLERIA CONDO P
361-080-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1534 VLG OFTHE GALLERIA CONDO P
361-080-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1535 VLG OFTHE GALLERIA CONDO P
361-080-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1536 VLG OFTHE GALLERIA CONDO P
361-080-041-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-13 COM AREA VLG OFTHE GALRIA CO
361-080-042-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-15 COM AREA VLG OFTHE GALRIA CO
361-080-043-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-A COM AREA VLG OF GALRIA COND
361-080-044-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-B COM AREA VLG OF GALRIA COND
361-090-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1411 VLG OFTHE GALLERIA CONDO P
361-090-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1412 VLG OFTHE GALLERIA CONDO P
361-090-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1413 VLG OFTHE GALLERIA CONDO P
361-090-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1414 VLG OFTHE GALLERIA CONDO P
361-090-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1415 VLG OFTHE GALLERIA CONDO P
361-090-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1416 VLG OFTHE GALLERIA CONDO P
361-090-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1417 VLG OFTHE GALLERIA CONDO P
361-090-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1418 VLG OFTHE GALLERIA CONDO P
361-090-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1421 VLG OFTHE GALLERIA CONDO P
361-090-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1422 VLG OFTHE GALLERIA CONDO P
361-090-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1423 VLG OFTHE GALLERIA CONDO P
361-090-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1424 VLG OFTHE GALLERIA CONDO P
361-090-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1425 VLG OFTHE GALLERIA CONDO P
361-090-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1426 VLG OFTHE GALLERIA CONDO P
361-090-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1427 VLG OFTHE GALLERIA CONDO P
361-090-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1428 VLG OFTHE GALLERIA CONDO P
361-090-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1433 VLG OFTHE GALLERIA CONDO P
361-090-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1434 VLG OFTHE GALLERIA CONDO P
361-090-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1435 VLG OFTHE GALLERIA CONDO P
361-090-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1436 VLG OFTHE GALLERIA CONDO P
361-090-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1611 VLG OFTHE GALLERIA CONDO P
361-090-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1612 VLG OFTHE GALLERIA CONDO P
361-090-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1613 VLG OFTHE GALLERIA CONDO P
361-090-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1614 VLG OFTHE GALLERIA CONDO P
361-090-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1615 VLG OFTHE GALLERIA CONDO P
361-090-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1616 VLG OFTHE GALLERIA CONDO P
361-090-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1617 VLG OFTHE GALLERIA CONDO P
361-090-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1618 VLG OFTHE GALLERIA CONDO P
361-090-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1621 VLG OFTHE GALLERIA CONDO P
361-090-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1622 VLG OFTHE GALLERIA CONDO P
361-090-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1623 VLG OFTHE GALLERIA CONDO P
361-090-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1624 VLG OFTHE GALLERIA CONDO P
361-090-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1625 VLG OFTHE GALLERIA CONDO P

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-090-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1626 VLG OFTHE GALLERIA CONDO P
361-090-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1627 VLG OFTHE GALLERIA CONDO P
361-090-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1628 VLG OFTHE GALLERIA CONDO P
361-090-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1633 VLG OFTHE GALLERIA CONDO P
361-090-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1634 VLG OFTHE GALLERIA CONDO P
361-090-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1635 VLG OFTHE GALLERIA CONDO P
361-090-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1636 VLG OFTHE GALLERIA CONDO P
361-090-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1711 VLG OFTHE GALLERIA CONDO P
361-090-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1712 VLG OFTHE GALLERIA CONDO P
361-090-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1713 VLG OFTHE GALLERIA CONDO P
361-090-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1714 VLG OFTHE GALLERIA CONDO P
361-090-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1715 VLG OFTHE GALLERIA CONDO P
361-090-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1716 VLG OFTHE GALLERIA CONDO P
361-090-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1717 VLG OFTHE GALLERIA CONDO P
361-090-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1718 VLG OFTHE GALLERIA CONDO P
361-090-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1721 VLG OFTHE GALLERIA CONDO P
361-090-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1722 VLG OFTHE GALLERIA CONDO P
361-090-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1723 VLG OFTHE GALLERIA CONDO P
361-090-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1724 VLG OFTHE GALLERIA CONDO P
361-090-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1725 VLG OFTHE GALLERIA CONDO P
361-090-054-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1726 VLG OFTHE GALLERIA CONDO P
361-090-055-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1727 VLG OFTHE GALLERIA CONDO P
361-090-056-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1728 VLG OFTHE GALLERIA CONDO P
361-090-057-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1733 VLG OFTHE GALLERIA CONDO P
361-090-058-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1734 VLG OFTHE GALLERIA CONDO P
361-090-059-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1735 VLG OFTHE GALLERIA CONDO P
361-090-060-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1736 VLG OFTHE GALLERIA CONDO P
361-090-061-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-14 COM AREA VLG OFTHE GALRIA CO
361-090-062-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-16 COM AREA VLG OFTHE GALRIA CO
361-090-063-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-17 COM AREA VLG OFTHE GALRIA CO
361-090-064-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-A COM AREA VLGOF GALRIA COND
361-090-065-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-D COM AREA VLGOF GALRIA COND
361-100-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 311 VLG OFTHE GALLERIA CONDO PL
361-100-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 312 VLG OFTHE GALLERIA CONDO PL
361-100-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 313 VLG OFTHE GALLERIA CONDO PL
361-100-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 314 VLG OFTHE GALLERIA CONDO PL
361-100-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 315 VLG OFTHE GALLERIA CONDO PL
361-100-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 316 VLG OFTHE GALLERIA CONDO PL
361-100-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 317 VLG OFTHE GALLERIA CONDO PL
361-100-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 318 VLG OFTHE GALLERIA CONDO PL
361-100-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 321 VLG OFTHE GALLERIA CONDO PL
361-100-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 322 VLG OFTHE GALLERIA CONDO PL
361-100-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 323 VLG OFTHE GALLERIA CONDO PL
361-100-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 324 VLG OFTHE GALLERIA CONDO PL
361-100-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 325 VLG OFTHE GALLERIA CONDO PL
361-100-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 326 VLG OFTHE GALLERIA CONDO PL
361-100-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 327 VLG OFTHE GALLERIA CONDO PL

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-100-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 328 VLG OFTHE GALLERIA CONDO PL
361-100-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 333 VLG OFTHE GALLERIA CONDO PL
361-100-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 334 VLG OFTHE GALLERIA CONDO PL
361-100-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 335 VLG OFTHE GALLERIA CONDO PL
361-100-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 336 VLG OFTHE GALLERIA CONDO PL
361-100-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1811 VLG OFTHE GALLERIA CONDO P
361-100-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1812 VLG OFTHE GALLERIA CONDO P
361-100-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1813 VLG OFTHE GALLERIA CONDO P
361-100-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1814 VLG OFTHE GALLERIA CONDO P
361-100-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1815 VLG OFTHE GALLERIA CONDO P
361-100-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1816 VLG OFTHE GALLERIA CONDO P
361-100-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1817VLG OFTHE GALLERIA CONDO PL
361-100-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1818 VLG OFTHE GALLERIA CONDO P
361-100-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1821 VLG OFTHE GALLERIA CONDO P
361-100-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1822 VLG OFTHE GALLERIA CONDO P
361-100-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1823 VLG OFTHE GALLERIA CONDO P
361-100-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1824 VLG OFTHE GALLERIA CONDO P
361-100-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1825 VLG OFTHE GALLERIA CONDO P
361-100-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1826 VLG OFTHE GALLERIA CONDO P
361-100-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1827 VLG OFTHE GALLERIA CONDO P
361-100-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1828 VLG OFTHE GALLERIA CONDO P
361-100-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1833 VLG OFTHE GALLERIA CONDO P
361-100-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1834 VLG OFTHE GALLERIA CONDO P
361-100-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1835 VLG OFTHE GALLERIA CONDO P
361-100-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1836 VLG OFTHE GALLERIA CONDO P
361-100-041-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-3 COM AREA VLG OFTHE GALRIA CON
361-100-042-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-18 COM AREA VLG OFTHE GALRIA CO
361-100-043-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-D COM AREA VLGOF GALRIA COND
361-100-044-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-D COM AREA VLGOF GALRIA COND
361-100-045-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	ACA-F COM AREA VLG OFTHE GALRIA CON
361-110-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1911 VLG OFTHE GALLERIA CONDO P
361-110-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1912 VLG OFTHE GALLERIA CONDO P
361-110-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1913 VLG OFTHE GALLERIA CONDO P
361-110-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1914 VLG OFTHE GALLERIA CONDO P
361-110-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1915 VLG OFTHE GALLERIA CONDO P
361-110-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1916 VLG OFTHE GALLERIA CONDO P
361-110-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1917 VLG OFTHE GALLERIA CONDO P
361-110-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1918 VLG OFTHE GALLERIA CONDO P
361-110-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1921 VLG OFTHE GALLERIA CONDO P
361-110-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1922 VLG OFTHE GALLERIA CONDO P
361-110-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1923 VLG OFTHE GALLERIA CONDO P
361-110-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1924 VLG OFTHE GALLERIA CONDO P
361-110-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1925 VLG OFTHE GALLERIA CONDO P
361-110-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1926 VLG OFTHE GALLERIA CONDO P
361-110-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1927 VLG OFTHE GALLERIA CONDO P
361-110-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1928 VLG OFTHE GALLERIA CONDO P
361-110-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1933 VLG OFTHE GALLERIA CONDO P

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361-110-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1934 VLG OFTHE GALLERIA CONDO P
361-110-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1935 VLG OFTHE GALLERIA CONDO P
361-110-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 1936 VLG OFTHE GALLERIA CONDO P
361-110-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2011 VLG OFTHE GALLERIA CONDO P
361-110-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2012 VLG OFTHE GALLERIA CONDO P
361-110-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2013 VLG OFTHE GALLERIA CONDO P
361-110-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2014 VLG OFTHE GALLERIA CONDO P
361-110-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2015 VLG OFTHE GALLERIA CONDO P
361-110-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2016 VLG OFTHE GALLERIA CONDO P
361-110-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2017 VLG OFTHE GALLERIA CONDO P
361-110-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2018 VLG OFTHE GALLERIA CONDO P
361-110-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2021 VLG OFTHE GALLERIA CONDO P
361-110-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2022 VLG OFTHE GALLERIA CONDO P
361-110-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2023 VLG OFTHE GALLERIA CONDO P
361-110-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2024 VLG OFTHE GALLERIA CONDO P
361-110-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2025 VLG OFTHE GALLERIA CONDO P
361-110-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2026 VLG OFTHE GALLERIA CONDO P
361-110-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2027 VLG OFTHE GALLERIA CONDO P
361-110-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2028 VLG OFTHE GALLERIA CONDO P
361-110-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2033 VLG OFTHE GALLERIA CONDO P
361-110-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2034 VLG OFTHE GALLERIA CONDO P
361-110-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2035 VLG OFTHE GALLERIA CONDO P
361-110-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2036 VLG OFTHE GALLERIA CONDO P
361-110-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2111 VLG OFTHE GALLERIA CONDO P
361-110-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2112 VLG OFTHE GALLERIA CONDO P
361-110-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2113 VLG OFTHE GALLERIA CONDO P
361-110-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2114 VLG OFTHE GALLERIA CONDO P
361-110-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2115 VLG OFTHE GALLERIA CONDO P
361-110-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2116 VLG OFTHE GALLERIA CONDO P
361-110-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2117 VLG OFTHE GALLERIA CONDO P
361-110-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2117 VLG OFTHE GALLERIA CONDO P
361-110-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2121 VLG OFTHE GALLERIA CONDO P
361-110-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2122 VLG OFTHE GALLERIA CONDO P
361-110-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2123 VLG OFTHE GALLERIA CONDO P
361-110-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2124 VLG OFTHE GALLERIA CONDO P
361-110-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2125 VLG OFTHE GALLERIA CONDO P
361-110-054-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2126 VLG OFTHE GALLERIA CONDO P
361-110-055-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2127 VLG OFTHE GALLERIA CONDO P
361-110-056-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2128 VLG OFTHE GALLERIA CONDO P
361-110-057-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2133 VLG OFTHE GALLERIA CONDO P
361-110-058-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2134 VLG OFTHE GALLERIA CONDO P
361-110-059-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2135 VLG OFTHE GALLERIA CONDO P
361-110-060-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNT 2136 VLG OFTHE GALLERIA CONDO P
361-110-061-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-19 COM AREA VLG OFTHE GALRIA CO
361-110-062-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-20 COM AREA VLG OFTHE GALRIA CO
361-110-063-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-21 COM AREA VLG OFTHE GALRIA CO
361-110-064-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-A COM AREA VLG OF GALRIA COND

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361-110-065-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	PORACA-C COM AREA VLG OF THE GALRIA COND
361-120-001-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BCA-10 COM AREA VLG OF THE GALRIA CO
361-130-001-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-140-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT211 CONDO PLAN VENU@GALLERIA, DOC
361-140-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT212 CONDO PLAN VENU@GALLERIA, DOC
361-140-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT213 CONDO PLAN VENU@GALLERIA, DOC
361-140-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT214 CONDO PLAN VENU@GALLERIA, DOC
361-140-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT215 CONDO PLAN VENU@GALLERIA, DOC
361-140-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT216 CONDO PLAN VENU@GALLERIA, DOC
361-140-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT221, CONDO PLAN VENU@GALLERIA, DO
361-140-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT222, CONDO PLAN VENU@GALLERIA, DO
361-140-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT223, CONDO PLAN VENU@GALLERIA, DO
361-140-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT224, CONDO PLAN VENU@GALLERIA, DO
361-140-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT311, CONDO PLAN VENU@GALLERIA, DO
361-140-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT312, CONDO PLAN VENU@GALLERIA, DO
361-140-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT313, CONDO PLAN VENU@GALLERIA, DO
361-140-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT314, CONDO PLAN VENU@GALLERIA, DO
361-140-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT315, CONDO PLAN VENU@GALLERIA, DO
361-140-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT316, CONDO PLAN VENU@GALLERIA, DO
361-140-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT321, CONDO PLAN VENU@GALLERIA, DO
361-140-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT322, CONDO PLAN VENU@GALLERIA, DO
361-140-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT323, CONDO PLAN VENU@GALLERIA, DO
361-140-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT324, CONDO PLAN VENU@GALLERIA, DO
361-140-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT411, CONDO PLAN VENU@GALLERIA, DO
361-140-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT412, CONDO PLAN VENU@GALLERIA, DO
361-140-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT413, CONDO PLAN VENU@GALLERIA, DO
361-140-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT414, CONDO PLAN VENU@GALLERIA, DO
361-140-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT415, CONDO PLAN VENU@GALLERIA, DO
361-140-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT416, CONDO PLAN VENU@GALLERIA, DO
361-140-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT421, CONDO PLAN VENU@GALLERIA, DO
361-140-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT422, CONDO PLAN VENU@GALLERIA, DO
361-140-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT423, CONDO PLAN VENU@GALLERIA, DO
361-140-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT424, CONDO PLAN VENU@GALLERIA, DO
361-140-031-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-140-032-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-140-033-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-150-001-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	LT1, CONDO PLAN VENU@GALLERIA, DOC#
361-150-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT521, CONDO PLAN VENU@GALLERIA, DO
361-150-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT522, CONDO PLAN VENU@GALLERIA, DO
361-150-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT621, CONDO PLAN VENU@GALLERIA, DO
361-150-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT622, CONDO PLAN VENU@GALLERIA, DO
361-150-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT711, CONDO PLAN VENU@GALLERIA, DO
361-150-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT712, CONDO PLAN VENU@GALLERIA, DO
361-150-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT713, CONDO PLAN VENU@GALLERIA, DO
361-150-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT714, CONDO PLAN VENU@GALLERIA, DO
361-150-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT715, CONDO PLAN VENU@GALLERIA, DO
361-150-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT716, CONDO PLAN VENU@GALLERIA, DO

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361-150-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT717, CONDO PLAN VENU@GALLERIA, DO
361-150-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT718, CONDO PLAN VENU@GALLERIA, DO
361-150-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT721, CONDO PLAN VENU@GALLERIA, DO
361-150-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT722, CONDO PLAN VENU@GALLERIA, DO
361-150-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT723, CONDO PLAN VENU@GALLERIA, DO
361-150-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT724, CONDO PLAN VENU@GALLERIA, DO
361-150-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT725, CONDO PLAN VENU@GALLERIA, DO
361-150-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT726, CONDO PLAN VENU@GALLERIA, DO
361-150-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT727, CONDO PLAN VENU@GALLERIA, DO
361-150-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT728, CONDO PLAN VENU@GALLERIA, DO
361-150-022-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-150-023-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-150-024-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-150-025-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-160-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT811, CONDO PLAN VENU@GALLERIA, DO
361-160-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT812, CONDO PLAN VENU@GALLERIA, DO
361-160-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT813, CONDO PLAN VENU@GALLERIA, DO
361-160-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT814, CONDO PLAN VENU@GALLERIA, DO
361-160-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT815, CONDO PLAN VENU@GALLERIA, DO
361-160-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT816, CONDO PLAN VENU@GALLERIA, DO
361-160-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT817, CONDO PLAN VENU@GALLERIA, DO
361-160-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT818, CONDO PLAN VENU@GALLERIA, DO
361-160-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT821, CONDO PLAN VENU@GALLERIA, DO
361-160-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT822, CONDO PLAN VENU@GALLERIA, DO
361-160-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT823, CONDO PLAN VENU@GALLERIA, DO
361-160-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT824, CONDO PLAN VENU@GALLERIA, DO
361-160-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT825, CONDO PLAN VENU@GALLERIA, DO
361-160-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT826, CONDO PLAN VENU@GALLERIA, DO
361-160-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT827, CONDO PLAN VENU@GALLERIA, DO
361-160-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT828, CONDO PLAN VENU@GALLERIA, DO
361-160-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT911, CONDO PLAN VENU@GALLERIA, DO
361-160-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT912, CONDO PLAN VENU@GALLERIA, DO
361-160-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT913, CONDO PLAN VENU@GALLERIA, DO
361-160-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT914, CONDO PLAN VENU@GALLERIA, DO
361-160-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT915, CONDO PLAN VENU@GALLERIA, DO
361-160-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT916, CONDO PLAN VENU@GALLERIA, DO
361-160-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT917, CONDO PLAN VENU@GALLERIA, DO
361-160-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT918, CONDO PLAN VENU@GALLERIA, DO
361-160-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT921, CONDO PLAN VENU@GALLERIA, DO
361-160-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT922, CONDO PLAN VENU@GALLERIA, DO
361-160-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT923, CONDO PLAN VENU@GALLERIA, DO
361-160-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT924, CONDO PLAN VENU@GALLERIA, DO
361-160-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT925, CONDO PLAN VENU@GALLERIA, DO
361-160-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT926, CONDO PLAN VENU@GALLERIA, DO
361-160-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT927, CONDO PLAN VENU@GALLERIA, DO
361-160-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT928, CONDO PLAN VENU@GALLERIA, DO
361-160-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1111, CONDO PLAN VENU@GALLERIA, D

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361-160-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1112, CONDO PLAN VENU@GALLERIA, D
361-160-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1113, CONDO PLAN VENU@GALLERIA, D
361-160-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1114, CONDO PLAN VENU@GALLERIA, D
361-160-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1115, CONDO PLAN VENU@GALLERIA, D
361-160-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1116, CONDO PLAN VENU@GALLERIA, D
361-160-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1117, CONDO PLAN VENU@GALLERIA, D
361-160-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1118, CONDO PLAN VENU@GALLERIA, D
361-160-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1121, CONDO PLAN VENU@GALLERIA, D
361-160-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1122, CONDO PLAN VENU@GALLERIA, D
361-160-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1123, CONDO PLAN VENU@GALLERIA, D
361-160-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1124, CONDO PLAN VENU@GALLERIA, D
361-160-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1125, CONDO PLAN VENU@GALLERIA, D
361-160-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1126, CONDO PLAN VENU@GALLERIA, D
361-160-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1127, CONDO PLAN VENU@GALLERIA, D
361-160-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1128, CONDO PLAN VENU@GALLERIA, D
361-160-049-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-160-050-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-160-051-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-170-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1011, CONDO PLAN VENU@GALLERIA, D
361-170-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1012, CONDO PLAN VENU@GALLERIA, D
361-170-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1013, CONDO PLAN VENU@GALLERIA, D
361-170-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1014, CONDO PLAN VENU@GALLERIA, D
361-170-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1015, CONDO PLAN VENU@GALLERIA, D
361-170-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1016, CONDO PLAN VENU@GALLERIA, D
361-170-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1017, CONDO PLAN VENU@GALLERIA, D
361-170-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1018, CONDO PLAN VENU@GALLERIA, D
361-170-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1021, CONDO PLAN VENU@GALLERIA, D
361-170-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1022, CONDO PLAN VENU@GALLERIA, D
361-170-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1023, CONDO PLAN VENU@GALLERIA, D
361-170-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1024, CONDO PLAN VENU@GALLERIA, D
361-170-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1025, CONDO PLAN VENU@GALLERIA, D
361-170-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1026, CONDO PLAN VENU@GALLERIA, D
361-170-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1027, CONDO PLAN VENU@GALLERIA, D
361-170-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1028, CONDO PLAN VENU@GALLERIA, D
361-170-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1421, CONDO PLAN VENU@GALLERIA, D
361-170-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1422, CONDO PLAN VENU@GALLERIA, D
361-170-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1521, CONDO PLAN VENU@GALLERIA, D
361-170-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1522, CONDO PLAN VENU@GALLERIA, D
361-170-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1711, CONDO PLAN VENU@GALLERIA, D
361-170-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1712, CONDO PLAN VENU@GALLERIA, D
361-170-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1713, CONDO PLAN VENU@GALLERIA, D
361-170-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1714, CONDO PLAN VENU@GALLERIA, D
361-170-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1715, CONDO PLAN VENU@GALLERIA, D
361-170-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1716, CONDO PLAN VENU@GALLERIA, D
361-170-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1717, CONDO PLAN VENU@GALLERIA, D
361-170-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1718, CONDO PLAN VENU@GALLERIA, D
361-170-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1721, CONDO PLAN VENU@GALLERIA, D

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361-170-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1722, CONDO PLAN VENU@GALLERIA, D
361-170-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1723, CONDO PLAN VENU@GALLERIA, D
361-170-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1724, CONDO PLAN VENU@GALLERIA, D
361-170-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1725, CONDO PLAN VENU@GALLERIA, D
361-170-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1726, CONDO PLAN VENU@GALLERIA, D
361-170-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1727 CONDO PLAN VENU@GALLERIA, DO
361-170-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1728 CONDO PLAN VENU@GALLERIA, DO
361-170-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2611 CONDO PLAN VENU@GALLERIA, DO
361-170-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2612 CONDO PLAN VENU@GALLERIA, DO
361-170-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2613 CONDO PLAN VENU@GALLERIA, DO
361-170-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2614 CONDO PLAN VENU@GALLERIA, DO
361-170-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2615 CONDO PLAN VENU@GALLERIA, DO
361-170-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2616 CONDO PLAN VENU@GALLERIA, DO
361-170-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2617 CONDO PLAN VENU@GALLERIA, DO
361-170-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2618 CONDO PLAN VENU@GALLERIA, DO
361-170-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2621 CONDO PLAN VENU@GALLERIA, DO
361-170-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2622 CONDO PLAN VENU@GALLERIA, DO
361-170-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2623 CONDO PLAN VENU@GALLERIA, DO
361-170-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2624 CONDO PLAN VENU@GALLERIA, DO
361-170-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2625 CONDO PLAN VENU@GALLERIA, DO
361-170-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2626 CONDO PLAN VENU@GALLERIA, DO
361-170-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2627 CONDO PLAN VENU@GALLERIA, DO
361-170-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2628 CONDO PLAN VENU@GALLERIA, DO
361-170-053-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-170-054-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-170-055-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-170-056-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-170-057-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-180-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1211 CONDO PLAN VENU@GALLERIA, DO
361-180-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1212 CONDO PLAN VENU@GALLERIA, DO
361-180-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1213 CONDO PLAN VENU@GALLERIA, DO
361-180-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1214 CONDO PLAN VENU@GALLERIA, DO
361-180-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1215 CONDO PLAN VENU@GALLERIA, DO
361-180-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1216 CONDO PLAN VENU@GALLERIA, DO
361-180-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1217 CONDO PLAN VENU@GALLERIA, DO
361-180-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1218 CONDO PLAN VENU@GALLERIA, DO
361-180-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1221 CONDO PLAN VENU@GALLERIA, DO
361-180-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1222 CONDO PLAN VENU@GALLERIA, DO
361-180-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1223 CONDO PLAN VENU@GALLERIA, DO
361-180-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1224 CONDO PLAN VENU@GALLERIA, DO
361-180-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1225 CONDO PLAN VENU@GALLERIA, DO
361-180-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1226 CONDO PLAN VENU@GALLERIA, DO
361-180-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1227 CONDO PLAN VENU@GALLERIA, DO
361-180-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1228 CONDO PLAN VENU@GALLERIA, DO
361-180-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1311 CONDO PLAN VENU@GALLERIA, DO
361-180-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1312 CONDO PLAN VENU@GALLERIA, DO
361-180-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1313 CONDO PLAN VENU@GALLERIA, DO

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361-180-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1314 CONDO PLAN VENU@GALLERIA, DO
361-180-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1321 CONDO PLAN VENU@GALLERIA, DO
361-180-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1322 CONDO PLAN VENU@GALLERIA, DO
361-180-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1323 CONDO PLAN VENU@GALLERIA, DO
361-180-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1324 CONDO PLAN VENU@GALLERIA, DO
361-180-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1611 CONDO PLAN VENU@GALLERIA, DO
361-180-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1612 CONDO PLAN VENU@GALLERIA, DO
361-180-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1613 CONDO PLAN VENU@GALLERIA, DO
361-180-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1614 CONDO PLAN VENU@GALLERIA, DO
361-180-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1615 CONDO PLAN VENU@GALLERIA, DO
361-180-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1616 CONDO PLAN VENU@GALLERIA, DO
361-180-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1621 CONDO PLAN VENU@GALLERIA, DO
361-180-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1622 CONDO PLAN VENU@GALLERIA, DO
361-180-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1623 CONDO PLAN VENU@GALLERIA, DO
361-180-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1624 CONDO PLAN VENU@GALLERIA, DO
361-180-035-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-180-036-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-180-037-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-190-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1811 CONDO PLAN VENU@GALLERIA, DO
361-190-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1812 CONDO PLAN VENU@GALLERIA, DO
361-190-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1813 CONDO PLAN VENU@GALLERIA, DO
361-190-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1814 CONDO PLAN VENU@GALLERIA, DO
361-190-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1815 CONDO PLAN VENU@GALLERIA, DO
361-190-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1816 CONDO PLAN VENU@GALLERIA, DO
361-190-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1821 CONDO PLAN VENU@GALLERIA, DO
361-190-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1822 CONDO PLAN VENU@GALLERIA, DO
361-190-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1823 CONDO PLAN VENU@GALLERIA, DO
361-190-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1824 CONDO PLAN VENU@GALLERIA, DO
361-190-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2421 CONDO PLAN VENU@GALLERIA, DO
361-190-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2422 CONDO PLAN VENU@GALLERIA, DO
361-190-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2111 CONDO PLAN VENU@GALLERIA, DO
361-190-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2112 CONDO PLAN VENU@GALLERIA, DO
361-190-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2113 CONDO PLAN VENU@GALLERIA, DO
361-190-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2114 CONDO PLAN VENU@GALLERIA, DO
361-190-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2115 CONDO PLAN VENU@GALLERIA, DO
361-190-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2116 CONDO PLAN VENU@GALLERIA, DO
361-190-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2121 CONDO PLAN VENU@GALLERIA, DO
361-190-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2122 CONDO PLAN VENU@GALLERIA, DO
361-190-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2123 CONDO PLAN VENU@GALLERIA, DO
361-190-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2124 CONDO PLAN VENU@GALLERIA, DO
361-190-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2125 CONDO PLAN VENU@GALLERIA, DO
361-190-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2126 CONDO PLAN VENU@GALLERIA, DO
361-190-025-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-190-026-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-190-027-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-200-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1911 CONDO PLAN VENU@GALLERIA, DO
361-200-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1912 CONDO PLAN VENU@GALLERIA, DO

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361-200-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1913 CONDO PLAN VENU@GALLERIA, DO
361-200-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1914 CONDO PLAN VENU@GALLERIA, DO
361-200-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1915 CONDO PLAN VENU@GALLERIA, DO
361-200-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1916 CONDO PLAN VENU@GALLERIA, DO
361-200-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1921 CONDO PLAN VENU@GALLERIA, DO
361-200-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1922 CONDO PLAN VENU@GALLERIA, DO
361-200-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1923 CONDO PLAN VENU@GALLERIA, DO
361-200-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT1924 CONDO PLAN VENU@GALLERIA, DO
361-200-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2011 CONDO PLAN VENU@GALLERIA, DO
361-200-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2012 CONDO PLAN VENU@GALLERIA, DO
361-200-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2013 CONDO PLAN VENU@GALLERIA, DO
361-200-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2014 CONDO PLAN VENU@GALLERIA, DO
361-200-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2015 CONDO PLAN VENU@GALLERIA, DO
361-200-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2016 CONDO PLAN VENU@GALLERIA, DO
361-200-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2021 CONDO PLAN VENU@GALLERIA, DO
361-200-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2022 CONDO PLAN VENU@GALLERIA, DO
361-200-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2023 CONDO PLAN VENU@GALLERIA, DO
361-200-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2024 CONDO PLAN VENU@GALLERIA, DO
361-200-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2211 CONDO PLAN VENU@GALLERIA, DO
361-200-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2212 CONDO PLAN VENU@GALLERIA, DO
361-200-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2213 CONDO PLAN VENU@GALLERIA, DO
361-200-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2214 CONDO PLAN VENU@GALLERIA, DO
361-200-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2215 CONDO PLAN VENU@GALLERIA, DO
361-200-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2216 CONDO PLAN VENU@GALLERIA, DO
361-200-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2221 CONDO PLAN VENU@GALLERIA, DO
361-200-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2222 CONDO PLAN VENU@GALLERIA, DO
361-200-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2223 CONDO PLAN VENU@GALLERIA, DO
361-200-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2224 CONDO PLAN VENU@GALLERIA, DO
361-200-031-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-200-032-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-200-033-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-210-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2311 CONDO PLAN VENU@GALLERIA, DO
361-210-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2312 CONDO PLAN VENU@GALLERIA, DO
361-210-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2313 CONDO PLAN VENU@GALLERIA, DO
361-210-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2314 CONDO PLAN VENU@GALLERIA, DO
361-210-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2315 CONDO PLAN VENU@GALLERIA, DO
361-210-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2316 CONDO PLAN VENU@GALLERIA, DO
361-210-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2321 CONDO PLAN VENU@GALLERIA, DO
361-210-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2322 CONDO PLAN VENU@GALLERIA, DO
361-210-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2323 CONDO PLAN VENU@GALLERIA, DO
361-210-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2324 CONDO PLAN VENU@GALLERIA, DO
361-210-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2511 CONDO PLAN VENU@GALLERIA, DO
361-210-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2512 CONDO PLAN VENU@GALLERIA, DO
361-210-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2513 CONDO PLAN VENU@GALLERIA, DO
361-210-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2514 CONDO PLAN VENU@GALLERIA, DO
361-210-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2515 CONDO PLAN VENU@GALLERIA, DO
361-210-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2516 CONDO PLAN VENU@GALLERIA, DO

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
361-210-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2521 CONDO PLAN VENU@GALLERIA, DO
361-210-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2522 CONDO PLAN VENU@GALLERIA, DO
361-210-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2523 CONDO PLAN VENU@GALLERIA, DO
361-210-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	LT2524 CONDO PLAN VENU@GALLERIA, DO
361-210-021-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-210-022-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	CMN AREA VENU@GALLERIA CONDO PLAN,D
361-220-001-000	District - Wide	74.74	74.74	1.141	0.0	1.141	0.0	0.0	0.163	Non Residential	L100 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-002-000	District - Wide	100.18	100.19	1.5295	0.0	1.5295	0.0	0.0	0.2185	Non Residential	L110 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-003-000	District - Wide	49.10	49.11	0.7497	0.0	0.7497	0.0	0.0	0.1071	Non Residential	L120 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-004-000	District - Wide	67.02	67.04	1.0234	0.0	1.0234	0.0	0.0	0.1462	Non Residential	L130 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-005-000	District - Wide	54.10	54.11	0.826	0.0	0.826	0.0	0.0	0.118	Non Residential	L140 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-006-000	District - Wide	53.86	53.88	0.8225	0.0	0.8225	0.0	0.0	0.1175	Non Residential	L150 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-007-000	District - Wide	45.88	45.90	0.7007	0.0	0.7007	0.0	0.0	0.1001	Non Residential	L160 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-008-000	District - Wide	56.48	56.49	0.8624	0.0	0.8624	0.0	0.0	0.1232	Non Residential	L170 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-009-000	District - Wide	89.32	89.32	1.3636	0.0	1.3636	0.0	0.0	0.1948	Non Residential	L190 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-010-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BLDG CMN AREA SHEA CTR RSVL OFC CND
361-220-011-000	District - Wide	74.74	74.74	1.141	0.0	1.141	0.0	0.0	0.163	Non Residential	L200 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-012-000	District - Wide	41.76	41.77	0.6377	0.0	0.6377	0.0	0.0	0.0911	Non Residential	L205 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-013-000	District - Wide	43.78	43.79	0.6685	0.0	0.6685	0.0	0.0	0.0955	Non Residential	L210 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-014-000	District - Wide	50.52	50.53	0.7714	0.0	0.7714	0.0	0.0	0.1102	Non Residential	L220 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-015-000	District - Wide	74.54	74.56	1.1382	0.0	1.1382	0.0	0.0	0.1626	Non Residential	L230 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-016-000	District - Wide	62.26	62.27	0.9506	0.0	0.9506	0.0	0.0	0.1358	Non Residential	L240 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-017-000	District - Wide	48.60	48.60	0.742	0.0	0.742	0.0	0.0	0.106	Non Residential	L250 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-018-000	District - Wide	59.82	59.84	0.9135	0.0	0.9135	0.0	0.0	0.1305	Non Residential	L260 CNDO PLAN SHEA CTR RSVL OFC CN
361-220-021-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	BLDG CMN AREA SHEA CTR RSVL OFC CND
361-220-022-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	2.6A/L2 CMNAREA SHEA CTR RSV OFC CN
361-220-023-000	District - Wide	76.50	76.51	1.168	0.0	1.168	0.0	0.0	0.16686	Non Residential	L270 &POR L290CNDO PLAN SHEA CTR RS
361-220-024-000	District - Wide	75.34	75.36	1.1504	0.0	1.1504	0.0	0.0	0.16434	Non Residential	POR L290 CNDO PLAN SHEA CTR RSVL OF
361-230-001-000	District - Wide	1,100.44	1,100.47	16.8	0.0	16.8	0.0	0.0	2.4	Non Residential	2.4 AC PAR 1 PMOR 34-93
361-230-002-000	District - Wide	1,375.56	1,375.59	21.0	0.0	21.0	0.0	0.0	3.0	Non Residential	3.0 AC PAR 2 PMOR 34-93
361-230-003-000	District - Wide	557.06	557.07	8.5043	0.0	8.5043	0.0	0.0	1.2149	Non Residential	PAR 3 PMOR 34-93
361-230-004-000	District - Wide	559.72	559.73	8.5449	0.0	8.5449	0.0	0.0	1.2207	Non Residential	PAR 4 PMOR 34-93
361-230-005-000	District - Wide	579.34	579.35	8.8445	0.0	8.8445	0.0	0.0	1.2635	Non Residential	PAR 5 PMOR 34-93
361-230-007-000	District - Wide	648.16	648.18	9.8952	0.0	9.8952	0.0	0.0	1.4136	Non Residential	PAR 7 PMOR 34-93
361-230-008-000	District - Wide	347.38	347.38	5.3032	0.0	5.3032	0.0	0.0	0.7576	Non Residential	PAR 8 PMOR 34-93
361-230-011-000	District - Wide	30.72	30.72	0.469	0.0	0.469	0.0	0.0	0.067	Non Residential	POR PAR 40C PMOR 32-89
361-230-012-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	7.1 AC POR PAR 10 COMMON AREA PMOR
361-230-014-000	District - Wide	710.76	710.77	10.8507	0.0	10.8507	0.0	0.0	1.5501	Non Residential	PAR 6 & POR PAR 10 PMOR 34-93
361-230-015-000	District - Wide	161.16	161.17	2.4605	0.0	2.4605	0.0	0.0	0.3515	Non Residential	UNIT 100 HIGHLAND VILLAGE PAR 9 CON
361-230-016-000	District - Wide	372.18	372.19	5.6819	0.0	5.6819	0.0	0.0	0.8117	Non Residential	UNIT 101 HIGHLAND VILLAGE PAR 9 CON
361-230-017-000	District - Wide	173.78	173.78	2.653	0.0	2.653	0.0	0.0	0.379	Non Residential	UNIT 102 HIGHLAND VILLAGE PAR 9 CON
361-230-018-000	District - Wide	178.44	178.46	2.7244	0.0	2.7244	0.0	0.0	0.3892	Non Residential	UNIT 103 HIGHLAND VILLAGE PAR 9 CON
361-230-019-000	District - Wide	182.40	182.40	2.7846	0.0	2.7846	0.0	0.0	0.3978	Non Residential	UNIT 104 HIGHLAND VILLAGE PAR 9 CON
362-010-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RESERVE 18 UNIT NO
362-010-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RESERVE 18 UNIT NO
362-010-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 HIGHLAND RESERVE 18 UNIT NO
362-010-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 HIGHLAND RESERVE 18 UNIT NO

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
362-030-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE 18 UNIT NO
362-030-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE 18 UNIT NO
362-030-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RESERVE 18 UNIT NO
362-040-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 1 CONDO PLAN FOR VILLEMONT, DO
362-040-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 2 CONDO PLAN FOR VILLEMONT, DO
362-040-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 3 CONDO PLAN FOR VILLEMONT, DO
362-040-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 4 CONDO PLAN FOR VILLEMONT, DO
362-040-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 5 CONDO PLAN FOR VILLEMONT, DO
362-040-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 6 CONDO PLAN FOR VILLEMONT, DO
362-040-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 7 CONDO PLAN FOR VILLEMONT, DO
362-040-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 8 CONDO PLAN FOR VILLEMONT, DO
362-040-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 9 CONDO PLAN FOR VILLEMONT, DO
362-040-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 10 CONDO PLAN FOR VILLEMONT, D
362-040-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 11 CONDO PLAN FOR VILLEMONT, D
362-040-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 12 CONDO PLAN FOR VILLEMONT, D
362-040-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 13 CONDO PLAN FOR VILLEMONT, D
362-040-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 14 CONDO PLAN FOR VILLEMONT, D
362-040-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 15 CONDO PLAN FOR VILLEMONT, D
362-040-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 16 CONDO PLAN FOR VILLEMONT, D
362-040-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 17 CONDO PLAN FOR VILLEMONT, D
362-040-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 18 CONDO PLAN FOR VILLEMONT, D
362-040-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 19 CONDO PLAN FOR VILLEMONT, D
362-040-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 20 CONDO PLAN FOR VILLEMONT, D
362-040-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 27 CONDO PLAN FOR VILLEMONT, D
362-040-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 28 CONDO PLAN FOR VILLEMONT, D
362-040-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 29 CONDO PLAN FOR VILLEMONT, D
362-040-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 30 CONDO PLAN FOR VILLEMONT, D
362-040-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 31 CONDO PLAN FOR VILLEMONT, D
362-040-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 32 CONDO PLAN FOR VILLEMONT, D
362-040-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 33 CONDO PLAN FOR VILLEMONT, D
362-040-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 34 CONDO PLAN FOR VILLEMONT, D
362-040-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 35 CONDO PLAN FOR VILLEMONT, D
362-040-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 36 CONDO PLAN FOR VILLEMONT, D
362-040-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 37 CONDO PLAN FOR VILLEMONT, D
362-040-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 38 CONDO PLAN FOR VILLEMONT, D
362-040-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 39 CONDO PLAN FOR VILLEMONT, D
362-040-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 40 CONDO PLAN FOR VILLEMONT, D
362-040-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 41 CONDO PLAN FOR VILLEMONT, D
362-040-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 42 CONDO PLAN FOR VILLEMONT, D
362-040-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 43 CONDO PLAN FOR VILLEMONT, D
362-040-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 44 CONDO PLAN FOR VILLEMONT, D
362-040-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 45 CONDO PLAN FOR VILLEMONT, D
362-040-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 46 CONDO PLAN FOR VILLEMONT, D
362-040-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 47 CONDO PLAN FOR VILLEMONT, D
362-040-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 48 CONDO PLAN FOR VILLEMONT, D
362-040-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 49 CONDO PLAN FOR VILLEMONT, D
362-040-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 50 CONDO PLAN FOR VILLEMONT, D

City of Roseville
North Central Roseville Specific Plan Landscaping and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
362-040-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 51 CONDO PLAN FOR VILLEMONT, D
362-040-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 52 CONDO PLAN FOR VILLEMONT, D
362-040-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 53 CONDO PLAN FOR VILLEMONT, D
362-040-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 54 CONDO PLAN FOR VILLEMONT, D
362-040-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 55 CONDO PLAN FOR VILLEMONT, D
362-050-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 21 CONDO PLAN FOR VILLEMONT, D
362-050-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 22 CONDO PLAN FOR VILLEMONT, D
362-050-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 23 CONDO PLAN FOR VILLEMONT, D
362-050-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 24 CONDO PLAN FOR VILLEMONT, D
362-050-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 25 CONDO PLAN FOR VILLEMONT, D
362-050-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 26 CONDO PLAN FOR VILLEMONT, D
362-050-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 84 CONDO PLAN FOR VILLEMONT, D
362-050-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 85 CONDO PLAN FOR VILLEMONT, D
362-050-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 86 CONDO PLAN FOR VILLEMONT, D
362-050-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 87 CONDO PLAN FOR VILLEMONT, D
362-050-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 88 CONDO PLAN FOR VILLEMONT, D
362-050-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 89 CONDO PLAN FOR VILLEMONT, D
362-050-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 90 CONDO PLAN FOR VILLEMONT, D
362-050-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 91 CONDO PLAN FOR VILLEMONT, D
362-050-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 92 CONDO PLAN FOR VILLEMONT, D
362-050-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 93 CONDO PLAN FOR VILLEMONT, D
362-050-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 94 CONDO PLAN FOR VILLEMONT, D
362-050-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 95 CONDO PLAN FOR VILLEMONT, D
362-050-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 96 CONDO PLAN FOR VILLEMONT, D
362-050-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 97 CONDO PLAN FOR VILLEMONT, D
362-050-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 98 CONDO PLAN FOR VILLEMONT, D
362-050-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 99 CONDO PLAN FOR VILLEMONT, D
362-050-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 100 CONDO PLAN FOR VILLEMONT D
362-050-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 101 CONDO PLAN FOR VILLEMONT D
362-050-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 102 CONDO PLAN FOR VILLEMONT D
362-050-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 103 CONDO PLAN FOR VILLEMONT D
362-050-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 104 CONDO PLAN FOR VILLEMONT D
362-050-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 105 CONDO PLAN FOR VILLEMONT D
362-050-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 106 CONDO PLAN FOR VILLEMONT D
362-050-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 107 CONDO PLAN FOR VILLEMONT D
362-050-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 108 CONDO PLAN FOR VILLEMONT D
362-050-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 109 CONDO PLAN FOR VILLEMONT D
362-050-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 110 CONDO PLAN FOR VILLEMONT D
362-050-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 111 CONDO PLAN FOR VILLEMONT D
362-050-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 112 CONDO PLAN FOR VILLEMONT D
362-050-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 113 CONDO PLAN FOR VILLEMONT D
362-050-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 114 CONDO PLAN FOR VILLEMONT D
362-050-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 115 CONDO PLAN FOR VILLEMONT D
362-050-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 116 CONDO PLAN FOR VILLEMONT D
362-050-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 150 CONDO PLAN FOR VILLEMONT D
362-050-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 151 CONDO PLAN FOR VILLEMONT D
362-050-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 152 CONDO PLAN FOR VILLEMONT D

City of Roseville

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
362-050-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 153 CONDO PLAN FOR VILLEMONT D
362-050-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 154 CONDO PLAN FOR VILLEMONT D
362-050-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 155 CONDO PLAN FOR VILLEMONT D
362-050-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 196 CONDO PLAN FOR VILLEMONT D
362-050-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 197 CONDO PLAN FOR VILLEMONT D
362-050-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 198 CONDO PLAN FOR VILLEMONT D
362-050-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 199 CONDO PLAN FOR VILLEMONT D
362-050-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 200 CONDO PLAN FOR VILLEMONT D
362-050-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 201 CONDO PLAN FOR VILLEMONT D
362-050-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 202 CONDO PLAN FOR VILLEMONT D
362-050-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 203 CONDO PLAN FOR VILLEMONT D
362-050-054-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 204 CONDO PLAN FOR VILLEMONT D
362-050-055-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 205 CONDO PLAN FOR VILLEMONT D
362-050-056-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 206 CONDO PLAN FOR VILLEMONT D
362-050-057-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 207 CONDO PLAN FOR VILLEMONT D
362-050-058-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 208 CONDO PLAN FOR VILLEMONT D
362-050-059-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 209 CONDO PLAN FOR VILLEMONT D
362-050-060-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 210 CONDO PLAN FOR VILLEMONT D
362-050-061-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 211 CONDO PLAN FOR VILLEMONT D
362-050-062-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 212 CONDO PLAN FOR VILLEMONT D
362-050-063-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 213 CONDO PLAN FOR VILLEMONT D
362-050-064-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 214 CONDO PLAN FOR VILLEMONT D
362-060-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 117 CONDO PLAN FOR VILLEMONT D
362-060-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 118 CONDO PLAN FOR VILLEMONT D
362-060-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 119 CONDO PLAN FOR VILLEMONT D
362-060-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 120 CONDO PLAN FOR VILLEMONT D
362-060-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 121 CONDO PLAN FOR VILLEMONT D
362-060-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 122 CONDO PLAN FOR VILLEMONT D
362-060-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 123 CONDO PLAN FOR VILLEMONT D
362-060-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 124 CONDO PLAN FOR VILLEMONT D
362-060-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 125 CONDO PLAN FOR VILLEMONT D
362-060-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 126 CONDO PLAN FOR VILLEMONT D
362-060-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 127 CONDO PLAN FOR VILLEMONT D
362-060-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 128 CONDO PLAN FOR VILLEMONT D
362-060-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 129 CONDO PLAN FOR VILLEMONT D
362-060-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 130 CONDO PLAN FOR VILLEMONT D
362-060-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 131 CONDO PLAN FOR VILLEMONT D
362-060-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 132 CONDO PLAN FOR VILLEMONT D
362-060-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 133 CONDO PLAN FOR VILLEMONT D
362-060-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 134 CONDO PLAN FOR VILLEMONT D
362-060-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 135 CONDO PLAN FOR VILLEMONT D
362-060-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 136 CONDO PLAN FOR VILLEMONT D
362-060-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 137 CONDO PLAN FOR VILLEMONT D
362-060-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 138 CONDO PLAN FOR VILLEMONT D
362-060-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 139 CONDO PLAN FOR VILLEMONT D
362-060-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 140 CONDO PLAN FOR VILLEMONT D
362-060-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 141 CONDO PLAN FOR VILLEMONT D

City of Roseville

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
362-060-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 142 CONDO PLAN FOR VILLEMONT D
362-060-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 143 CONDO PLAN FOR VILLEMONT D
362-060-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 144 CONDO PLAN FOR VILLEMONT D
362-060-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 145 CONDO PLAN FOR VILLEMONT D
362-060-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 146 CONDO PLAN FOR VILLEMONT D
362-060-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 147 CONDO PLAN FOR VILLEMONT D
362-060-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 148 CONDO PLAN FOR VILLEMONT D
362-060-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 149 CONDO PLAN FOR VILLEMONT D
362-060-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 176 CONDO PLAN FOR VILLEMONT D
362-060-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 177 CONDO PLAN FOR VILLEMONT D
362-060-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 178 CONDO PLAN FOR VILLEMONT D
362-060-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 179 CONDO PLAN FOR VILLEMONT D
362-060-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 180 CONDO PLAN FOR VILLEMONT D
362-060-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 181 CONDO PLAN FOR VILLEMONT D
362-060-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 182 CONDO PLAN FOR VILLEMONT D
362-060-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 183 CONDO PLAN FOR VILLEMONT D
362-060-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 184 CONDO PLAN FOR VILLEMONT D
362-060-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 185 CONDO PLAN FOR VILLEMONT D
362-060-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 186 CONDO PLAN FOR VILLEMONT D
362-060-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 187 CONDO PLAN FOR VILLEMONT D
362-060-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 188 CONDO PLAN FOR VILLEMONT D
362-060-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 189 CONDO PLAN FOR VILLEMONT D
362-060-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 190 CONDO PLAN FOR VILLEMONT D
362-060-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 191 CONDO PLAN FOR VILLEMONT D
362-060-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 192 CONDO PLAN FOR VILLEMONT D
362-060-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 193 CONDO PLAN FOR VILLEMONT D
362-060-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 194 CONDO PLAN FOR VILLEMONT D
362-060-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 195 CONDO PLAN FOR VILLEMONT D
362-070-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 156 CONDO PLAN FOR VILLEMONT D
362-070-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 157 CONDO PLAN FOR VILLEMONT D
362-070-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 158 CONDO PLAN FOR VILLEMONT D
362-070-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 159 CONDO PLAN FOR VILLEMONT D
362-070-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 160 CONDO PLAN FOR VILLEMONT D
362-070-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 161 CONDO PLAN FOR VILLEMONT D
362-070-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 162 CONDO PLAN FOR VILLEMONT D
362-070-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 163 CONDO PLAN FOR VILLEMONT D
362-070-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 164 CONDO PLAN FOR VILLEMONT D
362-070-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 165 CONDO PLAN FOR VILLEMONT D
362-070-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 166 CONDO PLAN FOR VILLEMONT D
362-070-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 167 CONDO PLAN FOR VILLEMONT D
362-070-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 168 CONDO PLAN FOR VILLEMONT D
362-070-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 169 CONDO PLAN FOR VILLEMONT D
362-070-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 170 CONDO PLAN FOR VILLEMONT D
362-070-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 171 CONDO PLAN FOR VILLEMONT D
362-070-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 172 CONDO PLAN FOR VILLEMONT D
362-070-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 173 CONDO PLAN FOR VILLEMONT D
362-070-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 174 CONDO PLAN FOR VILLEMONT D

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362-070-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 175 CONDO PLAN FOR VILLEMONT D
362-080-001-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 56 CONDO PLAN FOR VILLEMONT DO
362-080-002-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 57 CONDO PLAN FOR VILLEMONT DO
362-080-003-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 58 CONDO PLAN FOR VILLEMONT DO
362-080-004-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 59 CONDO PLAN FOR VILLEMONT DO
362-080-005-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 60 CONDO PLAN FOR VILLEMONT DO
362-080-006-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 61 CONDO PLAN FOR VILLEMONT DO
362-080-007-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 62 CONDO PLAN FOR VILLEMONT DO
362-080-008-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 63 CONDO PLAN FOR VILLEMONT DO
362-080-009-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 64 CONDO PLAN FOR VILLEMONT DO
362-080-010-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 65 CONDO PLAN FOR VILLEMONT DO
362-080-011-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 66 CONDO PLAN FOR VILLEMONT DO
362-080-012-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 67 CONDO PLAN FOR VILLEMONT DO
362-080-013-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 68 CONDO PLAN FOR VILLEMONT DO
362-080-014-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 69 CONDO PLAN FOR VILLEMONT DO
362-080-015-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 70 CONDO PLAN FOR VILLEMONT DO
362-080-016-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 71 CONDO PLAN FOR VILLEMONT DO
362-080-017-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 72 CONDO PLAN FOR VILLEMONT DO
362-080-018-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 73 CONDO PLAN FOR VILLEMONT DO
362-080-019-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 74 CONDO PLAN FOR VILLEMONT DO
362-080-020-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 75 CONDO PLAN FOR VILLEMONT DO
362-080-021-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 76 CONDO PLAN FOR VILLEMONT DO
362-080-022-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 77 CONDO PLAN FOR VILLEMONT DO
362-080-023-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 78 CONDO PLAN FOR VILLEMONT DO
362-080-024-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 79 CONDO PLAN FOR VILLEMONT DO
362-080-025-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 80 CONDO PLAN FOR VILLEMONT DO
362-080-026-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 81 CONDO PLAN FOR VILLEMONT DO
362-080-027-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 82 CONDO PLAN FOR VILLEMONT DO
362-080-028-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 83 CONDO PLAN FOR VILLEMONT DO
362-080-029-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 215 CONDO PLAN FOR VILLEMONT D
362-080-030-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 216 CONDO PLAN FOR VILLEMONT D
362-080-031-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 217 CONDO PLAN FOR VILLEMONT D
362-080-032-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 218 CONDO PLAN FOR VILLEMONT D
362-080-033-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 219 CONDO PLAN FOR VILLEMONT D
362-080-034-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 220 CONDO PLAN FOR VILLEMONT D
362-080-035-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 221 CONDO PLAN FOR VILLEMONT D
362-080-036-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 222 CONDO PLAN FOR VILLEMONT D
362-080-037-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 223 CONDO PLAN FOR VILLEMONT D
362-080-038-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 224 CONDO PLAN FOR VILLEMONT D
362-080-039-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 225 CONDO PLAN FOR VILLEMONT D
362-080-040-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 226 CONDO PLAN FOR VILLEMONT D
362-080-041-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 227 CONDO PLAN FOR VILLEMONT D
362-080-042-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 228 CONDO PLAN FOR VILLEMONT D
362-080-043-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 229 CONDO PLAN FOR VILLEMONT D
362-080-044-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 230 CONDO PLAN FOR VILLEMONT D
362-080-045-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 231 CONDO PLAN FOR VILLEMONT D
362-080-046-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 232 CONDO PLAN FOR VILLEMONT D

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362-080-047-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 233 CONDO PLAN FOR VILLEMONT D
362-080-048-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 234 CONDO PLAN FOR VILLEMONT D
362-080-049-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 235 CONDO PLAN FOR VILLEMONT D
362-080-050-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 236 CONDO PLAN FOR VILLEMONT D
362-080-051-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 237 CONDO PLAN FOR VILLEMONT D
362-080-052-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 238 CONDO PLAN FOR VILLEMONT D
362-080-053-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 239 CONDO PLAN FOR VILLEMONT D
362-080-054-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 240 CONDO PLAN FOR VILLEMONT D
362-080-055-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 241 CONDO PLAN FOR VILLEMONT D
362-080-056-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 242 CONDO PLAN FOR VILLEMONT D
362-080-057-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 243 CONDO PLAN FOR VILLEMONT D
362-080-058-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 244 CONDO PLAN FOR VILLEMONT D
362-080-059-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 245 CONDO PLAN FOR VILLEMONT D
362-080-060-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 246 CONDO PLAN FOR VILLEMONT D
362-080-061-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 247 CONDO PLAN FOR VILLEMONT D
362-080-062-000	District - Wide	39.30	39.30	0.6	0.0	0.6	0.0	1.0	0.0	MF Residential	UNIT 248 CONDO PLAN FOR VILLEMONT D
363-011-001-000	District - Wide	12,751.42	12,751.68	194.67	0.0	194.67	0.0	273.0	4.41	Mixed Use	14.9 AC P LOTS42&42BHIGHLAND RESR P
363-011-002-000	District - Wide	1,383.12	1,383.15	21.1155	0.0	21.1155	0.0	0.0	3.0165	Non Residential	3.0 AC PAR 1 PMOR 32-12
363-011-003-000	District - Wide	2,305.20	2,305.25	35.1925	0.0	35.1925	0.0	0.0	5.0275	Non Residential	5.0 AC PAR 2 PMOR 32-12
363-011-004-000	District - Wide	1,383.12	1,383.15	21.1155	0.0	21.1155	0.0	0.0	3.0165	Non Residential	3.0 AC PAR 3 PMOR 32-12
363-011-005-000	District - Wide	1,521.42	1,521.44	23.2267	0.0	23.2267	0.0	0.0	3.3181	Non Residential	3.3 AC PAR 4 PMOR 32-12
363-011-006-000	District - Wide	1,337.00	1,337.02	20.4113	0.0	20.4113	0.0	0.0	2.9159	Non Residential	2.9 AC PAR 5 PMOR 32-12
363-011-007-000	District - Wide	2,397.42	2,397.46	36.6002	0.0	36.6002	0.0	0.0	5.2286	Non Residential	5.2 AC PAR 6 PMOR 32-12
363-011-008-000	District - Wide	1,521.42	1,521.44	23.2267	0.0	23.2267	0.0	0.0	3.3181	Non Residential	3.3 AC PAR 8 PMOR 32-12
363-011-009-000	District - Wide	1,659.74	1,659.78	25.3386	0.0	25.3386	0.0	0.0	3.6198	Non Residential	3.6 AC PAR 9 PMOR 32-12
363-011-010-000	District - Wide	1,475.34	1,475.36	22.5232	0.0	22.5232	0.0	0.0	3.2176	Non Residential	3.2 AC PAR 1 PMOR 33-10
363-011-011-000	District - Wide	599.34	599.34	9.1497	0.0	9.1497	0.0	0.0	1.3071	Non Residential	1.3 AC PAR 11 PMOR 32-12
363-011-013-000	District - Wide	3,624.78	3,624.85	55.3378	0.0	55.3378	0.0	0.0	7.9054	Non Residential	7.9AC PAR 40B PMOR 32-89
363-011-014-000	District - Wide	3,074.18	3,074.25	46.9322	0.0	46.9322	0.0	0.0	6.7046	Non Residential	6.7AC PAR 40D PMOR 32-89
363-011-016-000	District - Wide	1,042.32	1,042.33	15.9125	0.0	15.9125	0.0	0.0	2.27321	Non Residential	1.8 AC PAR A THE GALLERIA AT RSVL
363-011-017-000	District - Wide	926.50	926.52	14.1444	0.0	14.1444	0.0	0.0	2.02063	Non Residential	1.6 AC PAR B-1 PMOR 30-73
363-011-018-000	District - Wide	463.24	463.26	7.0722	0.0	7.0722	0.0	0.0	1.01032	Non Residential	PAR B-2 PMOR 30-73
363-011-019-000	District - Wide	926.50	926.52	14.1444	0.0	14.1444	0.0	0.0	2.02063	Non Residential	1.6 AC PAR C THE GALLERIA AT RSVL
363-011-022-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Landscaping	6.0 PAR F THE GALLERIA AT RSVL RE
363-011-031-000	District - Wide	810.68	810.70	12.3764	0.0	12.3764	0.0	0.0	1.76805	Non Residential	1.4 AC PAR O THE GALLERIA AT RSVL
363-011-032-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Landscaping	2.3 AC PAR P THE GALLERIA AT RSVL
363-011-034-000	District - Wide	231.62	231.63	3.5361	0.0	3.5361	0.0	0.0	0.50516	Non Residential	PAR 14 PMOR 35-11 GALLERIA AT ROSE
363-011-035-000	District - Wide	4,516.68	4,516.77	68.954	0.0	68.954	0.0	0.0	9.85057	Non Residential	7.8 AC PAR 13 PMOR 35-11 GALLERIA
363-011-036-000	District - Wide	1,389.74	1,389.77	21.2166	0.0	21.2166	0.0	0.0	3.03095	Non Residential	2.4 AC PAR T THE GALLERIA AT RSVL
363-011-037-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Landscaping & Future Parking A	4.3 AC PAR U THE GALLERIA AT RSVL
363-011-040-000	District - Wide	9,668.20	9,668.41	147.6	0.0	147.6	0.0	246.0	0.0	MF Residential	12.1 AC PAR 1 PMOR 30-75
363-011-043-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Park	1.5 AC POR LOT 54B COMMON AREA - PA
363-011-044-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Park	POR LOT 54A COMMON AREA - PARKLAND
363-011-045-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	LOT A OPEN SPACE MOR Z-24 THE RESER
363-011-046-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	LOT 12 THE RESERVES AT GALLERIA
363-011-049-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	LOT 11 THE RESERVES AT GALLERIA
363-011-050-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Public ROW	LOT B OPEN SPACE MOR Z-24 THE RESER

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363-011-054-000	District - Wide	641.92	641.94	9.8	0.0	9.8	0.0	0.0	1.4	Non Residential	1.4 AC POR L39B REGIONAL 65 CENTER
363-011-057-000	District - Wide	10,261.56	10,261.78	156.6586	0.0	156.6586	0.0	0.0	22.3798	Non Residential	19.5AC POR L39A & POR ROW REGIONAL
363-011-058-000	District - Wide	596.08	596.09	9.1	0.0	9.1	0.0	0.0	1.3	Non Residential	1.3AC POR L39B & POR ROW REGIONAL 6
363-011-064-000	District - Wide	1,124.98	1,125.00	17.1745	0.0	17.1745	0.0	0.0	2.4535	Non Residential	2.1 AC PAR 3 PMOR 35-11 GALLERIA A
363-011-071-000	District - Wide	223.52	223.53	3.4125	0.0	3.4125	0.0	0.0	0.4875	Non Residential	PAR 7 PMOR 35-11 GALLERIA AT ROSEV
363-011-077-000	District - Wide	528.44	528.45	8.0675	0.0	8.0675	0.0	0.0	1.1525	Non Residential	PAR 11 PMOR 35-11 GALLERIA @ ROSEVI
363-011-078-000	District - Wide	1,429.90	1,429.92	21.8295	0.0	21.8295	0.0	0.0	3.1185	Non Residential	2.7 AC PAR 12 PMOR 35-11 GALLERIA
363-011-079-000	District - Wide	8,301.94	8,302.12	126.742	0.0	126.742	0.0	0.0	18.106	Non Residential	15.8 AC PAR 1 PMOR 35-11 GALLERIA A
363-011-080-000	District - Wide	4,044.50	4,044.59	61.7456	0.0	61.7456	0.0	0.0	8.8208	Non Residential	7.7 AC PAR 2 PMOR 35-11 GALLERIA AT
363-011-081-000	District - Wide	2,567.70	2,567.76	39.2	0.0	39.2	0.0	0.0	5.6	Non Residential	5.6 AC PAR 5 PMOR 35-11 GALLERIA A
363-011-082-000	District - Wide	5,253.58	5,253.68	80.2039	0.0	80.2039	0.0	0.0	11.4577	Non Residential	10.0 AC PAR 6 GALLERIA AT ROSEVILL
363-011-083-000	District - Wide	3,469.56	3,469.64	52.9683	0.0	52.9683	0.0	0.0	7.5669	Non Residential	6.6 AC PAR 8 PMOR 35-11 GALLERIA A
363-011-084-000	District - Wide	1,366.80	1,366.83	20.8663	0.0	20.8663	0.0	0.0	2.9809	Non Residential	2.6 AC PAR 10 PMOR 35-11 GALLERIA A
363-011-085-000	District - Wide	3,438.90	3,438.97	52.5	0.0	52.5	0.0	0.0	7.5	Non Residential	7.5 AC PAR 1 PMOR 35-55
363-011-086-000	District - Wide	5,043.70	5,043.82	77.0	0.0	77.0	0.0	0.0	11.0	Non Residential	11.0 AC PAR 2 PMOR 35-5532 89
363-011-087-000	District - Wide	146.72	146.73	2.24	0.0	2.24	0.0	0.0	0.32	Non Residential	PAR 1 PMOR 35-69
363-011-088-000	District - Wide	13,237.44	13,237.72	202.09	0.0	202.09	0.0	0.0	28.87	Non Residential	28.9 AC PAR 2 PMOR 35-69
363-011-089-000	District - Wide	7,899.62	7,899.79	120.6	0.0	120.6	0.0	201.0	0.0	MF Residential	PAR 1 PMOR 35-159
363-011-090-000	District - Wide	4,507.24	4,507.34	68.81	0.0	68.81	0.0	0.0	9.83	Non Residential	PAR 2 PMOR 35-159
363-021-002-000	District - Wide	144.80	144.80	2.2106	0.0	2.2106	0.0	0.0	0.3158	Non Residential	POR PAR 3 PMOR 33-122
363-021-003-000	District - Wide	965.32	965.34	14.7371	0.0	14.7371	0.0	0.0	2.1053	Non Residential	2.0 AC POR PAR 3 PMOR 33-122
363-021-004-000	District - Wide	1,061.84	1,061.86	16.2106	0.0	16.2106	0.0	0.0	2.3158	Non Residential	2.2 AC PAR2 PMOR 33-122
363-021-005-000	District - Wide	482.64	482.65	7.3682	0.0	7.3682	0.0	0.0	1.0526	Non Residential	POR PAR 1 PMOR 33-122
363-021-006-000	District - Wide	530.92	530.93	8.1053	0.0	8.1053	0.0	0.0	1.1579	Non Residential	1.1 AC POR PAR 2 PMOR 33-94
363-021-007-000	District - Wide	482.64	482.65	7.3682	0.0	7.3682	0.0	0.0	1.0526	Non Residential	1.0 AC POR PAR 4 PMOR 33-122
363-021-008-000	District - Wide	482.64	482.65	7.3682	0.0	7.3682	0.0	0.0	1.0526	Non Residential	POR PAR 3 PMOR 33-94
363-021-009-000	District - Wide	434.40	434.41	6.6318	0.0	6.6318	0.0	0.0	0.9474	Non Residential	PAR 4 PMOR 33-94
363-021-010-000	District - Wide	1,497.56	1,497.60	22.8627	0.0	22.8627	0.0	0.0	3.2661	Non Residential	3.0 AC PAR 5 PMOR 31-146
363-021-011-000	District - Wide	3,644.12	3,644.20	55.6332	0.0	55.6332	0.0	0.0	7.9476	Non Residential	7.3 AC PAR 4 PMOR 31-146
363-021-012-000	District - Wide	3,194.82	3,194.89	48.7739	0.0	48.7739	0.0	0.0	6.9677	Non Residential	6.4 AC PAR 3 PMOR 31-146
363-021-013-000	District - Wide	3,494.38	3,494.45	53.347	0.0	53.347	0.0	0.0	7.621	Non Residential	7.0 AC POR PAR 2 PMOR 31-146
363-021-014-000	District - Wide	549.12	549.13	8.3832	0.0	8.3832	0.0	0.0	1.1976	Non Residential	1.1 AC PAR 1 PMOR 31-146
363-022-002-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	14.3A COMM AREA CONDO PLN FOR VILLE
363-022-003-000	District - Wide	432.06	432.07	6.5961	0.0	6.5961	0.0	0.0	0.9423	Non Residential	1.2 AC PAR G - PMOR 32-50
363-022-004-000	District - Wide	720.10	720.12	10.9935	0.0	10.9935	0.0	0.0	1.5705	Non Residential	2.0 AC PAR F - PMOR 32-50
363-022-005-000	District - Wide	648.26	648.27	9.8966	0.0	9.8966	0.0	0.0	1.4138	Non Residential	1.8 AC PAR E - PMOR 32-50
363-022-006-000	District - Wide	756.38	756.39	11.5472	0.0	11.5472	0.0	0.0	1.6496	Non Residential	2.1 AC PAR J - PMOR 32-50
363-022-007-000	District - Wide	396.16	396.17	6.048	0.0	6.048	0.0	0.0	0.864	Non Residential	1.1 AC PAR I - PMOR 32-50
363-022-008-000	District - Wide	467.96	467.97	7.1442	0.0	7.1442	0.0	0.0	1.0206	Non Residential	1.3 AC PAR H - PMOR 32-50
363-022-009-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	11.7A COMM AREA CONDO PLN FOR VILLE
363-022-010-000	District - Wide	367.86	367.88	5.6161	0.0	5.6161	0.0	0.0	0.8023	Non Residential	1.0 AC PAR C PMOR 31-118
363-022-011-000	District - Wide	7,356.88	7,357.05	112.3143	0.0	112.3143	0.0	0.0	16.0449	Non Residential	20.0 AC PAR B PMOR 31-118
363-022-012-000	District - Wide	10,152.52	10,152.74	154.994	0.0	154.994	0.0	0.0	22.142	Non Residential	27.6 AC PAR A PMOR 31-118
363-022-016-000	District - Wide	5,282.14	5,282.25	80.64	0.0	80.64	0.0	0.0	11.52	Non Residential	11.5 AC LOT 8 NCRSP- PAR 49 SUB MO
363-022-017-000	District - Wide	2,159.62	2,159.67	32.97	0.0	32.97	0.0	0.0	4.71	Non Residential	4.7 AC LOT 7 NCRSP- PAR 49 SUB MOR
363-022-018-000	District - Wide	1,022.50	1,022.52	15.61	0.0	15.61	0.0	0.0	2.23	Non Residential	2.2 AC LOT 6 NCRSP- PAR 49 SUB MOR
363-022-019-000	District - Wide	11,903.16	11,903.41	181.72	0.0	181.72	0.0	0.0	25.96	Non Residential	25.9 AC LOT 9 NCRSP- PAR 49 SUB MOR

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-022-020-000	District - Wide	1,581.90	1,581.92	24.15	0.0	24.15	0.0	0.0	3.45	Non Residential	3.5 AC LOT 2 NCRSP- PAR 49 SUB MOR
363-022-021-000	District - Wide	715.28	715.30	10.92	0.0	10.92	0.0	0.0	1.56	Non Residential	1.56 AC POR LOT 1 NCRSP- PARCEL 49
363-022-022-000	District - Wide	531.88	531.89	8.12	0.0	8.12	0.0	0.0	1.16	Non Residential	1.15 AC POR LOT 1 & 3 NCRSP- PARCEL
363-022-023-000	District - Wide	1,678.18	1,678.22	25.62	0.0	25.62	0.0	0.0	3.66	Non Residential	3.66 AC POR LOTS 3, 4 & 5 NCRSP- P
363-022-024-000	District - Wide	1,838.66	1,838.70	28.07	0.0	28.07	0.0	0.0	4.01	Non Residential	4.01 AC POR LOTS 3, 4 & 5 NCRSP- P
363-030-064-000	District - Wide	5,057.70	5,057.80	77.2135	0.0	77.2135	0.0	0.0	11.0305	Non Residential	11.7 AC POR LOT 32 & 42 REGIONAL 65
363-030-070-000	District - Wide	2,940.58	2,940.64	44.8924	0.0	44.8924	0.0	0.0	6.4132	Non Residential	POR PAR 1 PMOR 31-31
363-030-071-000	District - Wide	1,162.80	1,162.83	17.752	0.0	17.752	0.0	0.0	2.536	Non Residential	POR PAR 4 PMOR 31-31
363-030-073-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	5.0 AC POR PAR 1 PMOR 31-31
363-030-074-000	District - Wide	422.52	422.53	6.4505	0.0	6.4505	0.0	0.0	0.9215	Non Residential	PAR 2 PMOR 31-31
363-030-075-000	District - Wide	757.98	757.99	11.5717	0.0	11.5717	0.0	0.0	1.6531	Non Residential	1.6 AC PAR 3 PMOR 31-31
363-030-076-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	1.8 AC POR PAR 4 PMOR 31-31
363-030-077-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Common Area	POR PAR 4 PMOR 31-31
363-030-078-000	District - Wide	417.90	417.90	6.3798	0.0	6.3798	0.0	0.0	0.9114	Non Residential	PAR 5 PMOR 31-31
363-030-079-000	District - Wide	293.50	293.50	4.4807	0.0	4.4807	0.0	0.0	0.6401	Non Residential	PAR 6 PMOR 31-31
363-030-080-000	District - Wide	403.90	403.92	6.1663	0.0	6.1663	0.0	0.0	0.8809	Non Residential	PAR 7 PMOR 31-31
363-030-081-000	District - Wide	7,231.50	7,231.65	110.4	0.0	110.4	0.0	184.0	0.0	MF Residential	8.5 AC P LOT 21B HIGHLAND RESERVE P
363-030-082-000	District - Wide	499.96	499.98	7.6328	0.0	7.6328	0.0	0.0	1.0904	Non Residential	1.0 AC POR LOT 47 REGIONAL 65 CENTR
363-030-089-000	District - Wide	750.28	750.30	11.4543	0.0	11.4543	0.0	0.0	1.63633	Non Residential	1.6 AC PAR 1 PMOR 34-132
363-030-090-000	District - Wide	844.08	844.09	12.8861	0.0	12.8861	0.0	0.0	1.84087	Non Residential	1.8 AC PAR 2 PMOR 34-132
363-040-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PARCEL
363-040-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PARCEL
363-040-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PARCEL
363-040-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PARCEL
363-040-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PARCEL
363-040-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PARCEL
363-040-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PARCEL
363-040-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PARCEL
363-040-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PARCEL
363-040-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PARCEL
363-040-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PARCEL
363-040-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PARCEL
363-040-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PARCEL
363-040-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST PARCEL
363-040-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST PARCEL
363-040-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST PARCEL
363-040-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST PARCEL
363-040-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RESERVE WEST PARCEL
363-040-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RESERVE WEST PARCEL
363-040-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST PARCEL
363-040-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST PARCEL
363-040-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST PARCEL
363-040-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE WEST PARCEL
363-040-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RESERVE WEST PARCEL
363-040-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RESERVE WEST PARCEL
363-040-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST PARCEL
363-040-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RESERVE WEST PARCEL

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-040-081-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 75 HIGHLAND RESERVE WEST PARCEL
363-040-082-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 76 HIGHLAND RESERVE WEST PARCEL
363-040-083-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 77 HIGHLAND RESERVE WEST PARCEL
363-040-084-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 78 HIGHLAND RESERVE WEST PARCEL
363-050-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 DIAMOND OAKS EAST S-44
363-050-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 DIAMOND OAKS EAST S-44
363-050-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 DIAMOND OAKS EAST S-44
363-050-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 DIAMOND OAKS EAST S-44
363-050-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 DIAMOND OAKS EAST S-44
363-050-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 DIAMOND OAKS EAST S-44
363-050-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 DIAMOND OAKS EAST S-44
363-050-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 DIAMOND OAKS EAST S-44
363-050-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 DIAMOND OAKS EAST S-44
363-050-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 DIAMOND OAKS EAST S-44
363-050-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 DIAMOND OAKS EAST S-44
363-050-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 DIAMOND OAKS EAST S-44
363-050-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 DIAMOND OAKS EAST S-44
363-050-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 DIAMOND OAKS EAST S-44
363-050-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 DIAMOND OAKS EAST S-44
363-050-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 DIAMOND OAKS EAST S-44
363-050-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 DIAMOND OAKS EAST S-44
363-050-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 DIAMOND OAKS EAST S-44
363-050-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 DIAMOND OAKS EAST S-44
363-050-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 DIAMOND OAKS EAST S-44
363-050-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 DIAMOND OAKS EAST S-44
363-050-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 DIAMOND OAKS EAST S-44
363-050-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 DIAMOND OAKS EAST S-44
363-050-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 DIAMOND OAKS EAST S-44
363-050-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 DIAMOND OAKS EAST S-44
363-050-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 DIAMOND OAKS EAST S-44
363-050-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 DIAMOND OAKS EAST S-44
363-050-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 DIAMOND OAKS EAST S-44
363-050-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 DIAMOND OAKS EAST S-44
363-050-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 DIAMOND OAKS EAST S-44
363-050-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 DIAMOND OAKS EAST S-44
363-050-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 DIAMOND OAKS EAST S-44
363-050-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 DIAMOND OAKS EAST S-44
363-050-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 DIAMOND OAKS EAST S-44
363-050-037-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 DIAMOND OAKS EAST S-44
363-050-038-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 DIAMOND OAKS EAST S-44
363-050-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 DIAMOND OAKS EAST S-44
363-050-040-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 DIAMOND OAKS EAST S-44
363-050-041-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 DIAMOND OAKS EAST S-44
363-050-042-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 DIAMOND OAKS EAST S-44
363-050-043-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 DIAMOND OAKS EAST S-44
363-050-044-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 DIAMOND OAKS EAST S-44
363-050-045-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 DIAMOND OAKS EAST S-44

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363-050-046-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 DIAMOND OAKS EAST S-44
363-050-047-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 64 DIAMOND OAKS EAST S-44
363-050-048-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 DIAMOND OAKS EAST S-44
363-050-049-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 66 DIAMOND OAKS EAST S-44
363-050-050-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 67 DIAMOND OAKS EAST S-44
363-050-051-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 68 DIAMOND OAKS EAST S-44
363-050-052-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 69 DIAMOND OAKS EAST S-44
363-050-053-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 70 DIAMOND OAKS EAST S-44
363-050-054-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 71 DIAMOND OAKS EAST S-44
363-050-055-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 72 DIAMOND OAKS EAST S-44
363-050-056-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 73 DIAMOND OAKS EAST S-44
363-050-057-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 74 DIAMOND OAKS EAST S-44
363-050-058-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 75 DIAMOND OAKS EAST S-44
363-050-059-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 76 DIAMOND OAKS EAST S-44
363-050-060-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 77 DIAMOND OAKS EAST S-44
363-050-061-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 78 DIAMOND OAKS EAST S-44
363-050-062-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 79 DIAMOND OAKS EAST S-44
363-050-063-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 80 DIAMOND OAKS EAST S-44
363-050-067-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 84 DIAMOND OAKS EAST S-44
363-050-068-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 85 DIAMOND OAKS EAST S-44
363-050-069-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 86 DIAMOND OAKS EAST S-44
363-050-070-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 87 DIAMOND OAKS EAST S-44
363-050-071-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 88 DIAMOND OAKS EAST S-44
363-050-074-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 DIAMOND OAKS EAST S-44
363-050-076-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 & POR LOT 50 DIAMOND OAKS EA
363-050-077-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 83 DIAMOND OAKS EAST S-44
363-050-080-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 81 DIAMOND OAKS EAST S-44
363-050-082-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 82 DIAMOND OAKS EAST S-44
363-050-084-000	Local&District - Wide	271.96	271.97	2.0	2.0	2.0	2.0	0.0	0.0	SF Residential-Duplex	1.3 AC L 89 P LOTS 81 82&83 S-44 &
363-060-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 DIAMOND OAKS EAST S-44
363-060-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 DIAMOND OAKS EAST S-44
363-060-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 DIAMOND OAKS EAST S-44
363-060-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 DIAMOND OAKS EAST S-44
363-060-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 DIAMOND OAKS EAST S-44
363-060-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 DIAMOND OAKS EAST S-44
363-060-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 DIAMOND OAKS EAST S-44
363-060-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 DIAMOND OAKS EAST S-44
363-060-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 DIAMOND OAKS EAST S-44
363-060-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 DIAMOND OAKS EAST S-44
363-060-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 DIAMOND OAKS EAST S-44
363-060-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 DIAMOND OAKS EAST S-44
363-060-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 DIAMOND OAKS EAST S-44
363-060-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 DIAMOND OAKS EAST S-44
363-060-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 DIAMOND OAKS EAST S-44
363-060-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 DIAMOND OAKS EAST S-44
363-060-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 DIAMOND OAKS EAST S-44
363-070-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST S-78

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-070-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST S-78
363-070-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST S-78
363-070-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST S-78
363-070-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST S-78
363-070-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST S-78
363-070-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST S-78
363-070-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST S-78
363-070-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST S-78
363-070-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST S-78
363-070-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST S-78
363-070-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST S-78
363-070-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST S-78
363-070-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST S-78
363-070-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST S-78
363-070-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST S-78
363-070-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST S-78
363-070-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST S-78
363-070-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RESERVE WEST S-78
363-070-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RESERVE WEST S-78
363-070-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST S-78
363-070-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST S-78
363-070-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE WEST S-78
363-070-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RESERVE WEST S-78
363-070-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RESERVE WEST S-78
363-070-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST S-78
363-070-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RESERVE WEST S-78
363-070-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 HIGHLAND RESERVE WEST S-78
363-070-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 HIGHLAND RESERVE WEST S-78
363-070-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 HIGHLAND RESERVE WEST S-78
363-070-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 HIGHLAND RESERVE WEST S-78
363-070-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 HIGHLAND RESERVE WEST S-78
363-070-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 HIGHLAND RESERVE WEST S-78
363-070-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 HIGHLAND RESERVE WEST S-78
363-070-037-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RESERVE WEST S-78
363-070-038-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RESERVE WEST S-78
363-070-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 HIGHLAND RESERVE WEST S-78
363-070-040-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 HIGHLAND RESERVE WEST S-78
363-070-041-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 HIGHLAND RESERVE WEST S-78
363-070-042-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 HIGHLAND RESERVE WEST S-78
363-070-043-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 HIGHLAND RESERVE WEST S-78
363-070-046-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 HIGHLAND RESERVE WEST S-78
363-070-047-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 64 HIGHLAND RESERVE WEST S-78
363-070-048-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 HIGHLAND RESERVE WEST S-78
363-070-049-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 66 HIGHLAND RESERVE WEST S-78
363-070-050-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 67 HIGHLAND RESERVE WEST S-78
363-070-051-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 68 HIGHLAND RESERVE WEST S-78
363-070-052-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 69 HIGHLAND RESERVE WEST S-78

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363-070-053-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 70 HIGHLAND RESERVE WEST S-78
363-070-054-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 71 HIGHLAND RESERVE WEST S-78
363-070-055-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 72 HIGHLAND RESERVE WEST S-78
363-070-056-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 73 HIGHLAND RESERVE WEST S-78
363-070-057-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 74 HIGHLAND RESERVE WEST S-78
363-070-058-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 75 HIGHLAND RESERVE WEST S-78
363-070-061-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 78 HIGHLAND RESERVE WEST S-78
363-070-062-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 79 HIGHLAND RESERVE WEST S-78
363-070-063-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 80 HIGHLAND RESERVE WEST S-78
363-070-064-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 81 HIGHLAND RESERVE WEST S-78
363-070-065-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 82 HIGHLAND RESERVE WEST S-78
363-070-066-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 83 HIGHLAND RESERVE WEST S-78
363-070-067-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 84 HIGHLAND RESERVE WEST S-78
363-070-068-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 85 HIGHLAND RESERVE WEST S-78
363-070-070-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 1 & 2 HIGHLAND RESERVE WEST S-
363-070-071-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 61 & 62 HIGHLAND RESERVE WEST
363-070-072-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 76 & 77 HIGHLAND RESERVE WEST
363-080-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RESERVE WEST S-78
363-080-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RESERVE WEST S-78
363-080-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST S-78
363-080-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST S-78
363-080-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST S-78
363-080-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RESERVE WEST S-78
363-080-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST S-78
363-080-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RESERVE WEST S-78
363-080-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RESERVE WEST S-78
363-080-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST S-78
363-080-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST S-78
363-080-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST S-78
363-080-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST S-78
363-080-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST S-78
363-080-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST S-78
363-080-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 86 HIGHLAND RESERVE WEST S-78
363-080-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 87 HIGHLAND RESERVE WEST S-78
363-080-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 88 HIGHLAND RESERVE WEST S-78
363-080-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 89 HIGHLAND RESERVE WEST S-78
363-080-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 90 HIGHLAND RESERVE WEST S-78
363-080-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 91 HIGHLAND RESERVE WEST S-78
363-080-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 92 HIGHLAND RESERVE WEST S-78
363-080-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 93 HIGHLAND RESERVE WEST S-78
363-080-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 94 HIGHLAND RESERVE WEST S-78
363-080-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 37 & 38 HIGHLAND RESERVE WEST
363-090-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST T-12
363-090-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST T-12
363-090-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST T-12
363-090-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST T-12
363-090-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST T-12

City of Roseville

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City of Roseville

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-090-053-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 HIGHLAND RESERVE WEST T-12
363-090-054-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RESERVE WEST T-12
363-090-055-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RESERVE WEST T-12
363-090-056-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 HIGHLAND RESERVE WEST T-12
363-090-057-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 HIGHLAND RESERVE WEST T-12
363-090-058-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 HIGHLAND RESERVE WEST T-12
363-090-059-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 HIGHLAND RESERVE WEST T-12
363-090-060-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 HIGHLAND RESERVE WEST T-12
363-090-061-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 HIGHLAND RESERVE WEST T-12
363-090-062-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 HIGHLAND RESERVE WEST T-12
363-090-063-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 HIGHLAND RESERVE WEST T-12
363-090-064-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 64 HIGHLAND RESERVE WEST T-12
363-090-065-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 HIGHLAND RESERVE WEST T-12
363-090-066-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 66 HIGHLAND RESERVE WEST T-12
363-090-067-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 67 HIGHLAND RESERVE WEST T-12
363-090-068-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 68 HIGHLAND RESERVE WEST T-12
363-100-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PARCEL
363-100-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PARCEL
363-100-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PARCEL
363-100-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PARCEL
363-100-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PARCEL
363-100-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PARCEL
363-100-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PARCEL
363-100-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PARCEL
363-100-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PARCEL
363-100-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PARCEL
363-100-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PARCEL
363-100-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PARCEL
363-100-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PARCEL
363-100-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PARCEL
363-100-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PARCEL
363-100-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST PARCEL
363-100-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST PARCEL
363-100-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST PARCEL
363-100-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST PARCEL
363-100-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST PARCEL
363-100-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RESERVE WEST PARCEL
363-100-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RESERVE WEST PARCEL
363-100-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RESERVE WEST PARCEL
363-100-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST PARCEL
363-100-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RESERVE WEST PARCEL
363-100-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RESERVE WEST PARCEL
363-100-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST PARCEL
363-100-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST PARCEL
363-100-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST PARCEL
363-110-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RESERVE WEST PARCEL
363-110-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST PARCEL

City of Roseville
North Central Roseville Specific Plan Landscaping and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-110-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST PARCEL
363-110-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST PARCEL
363-110-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RESERVE WEST PARCEL
363-110-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST PARCEL
363-110-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RESERVE WEST PARCEL
363-110-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RESERVE WEST PARCEL
363-110-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST PARCEL
363-110-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST PARCEL
363-110-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST PARCEL
363-110-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST PARCEL
363-110-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE WEST PARCEL
363-110-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RESERVE WEST PARCEL
363-110-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RESERVE WEST PARCEL
363-110-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST PARCEL
363-110-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RESERVE WEST PARCEL
363-110-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 HIGHLAND RESERVE WEST PARCEL
363-110-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 HIGHLAND RESERVE WEST PARCEL
363-110-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 HIGHLAND RESERVE WEST PARCEL
363-110-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 HIGHLAND RESERVE WEST PARCEL
363-120-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 DIAMOND OAKS UNIT NO 12 PH 1
363-120-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 DIAMOND OAKS UNIT NO 12 PH 1
363-120-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 DIAMOND OAKS UNIT NO 12 PH 1
363-120-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 DIAMOND OAKS UNIT NO 12 PH 1
363-120-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 DIAMOND OAKS UNIT NO 12 PH 1
363-120-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 DIAMOND OAKS UNIT NO 12 PH 1
363-120-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 DIAMOND OAKS UNIT NO 12 PH 1
363-120-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 DIAMOND OAKS UNIT NO 12 PH 1
363-120-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 DIAMOND OAKS UNIT NO 12 PH 1
363-120-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 DIAMOND OAKS UNIT NO 12 PH 1
363-120-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 DIAMOND OAKS UNIT NO 12 PH 1
363-120-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 DIAMOND OAKS UNIT NO 12 PH 1
363-120-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 DIAMOND OAKS UNIT NO 12 PH 1
363-120-020-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Exempt	LOT 1 DIAMOND OAKS UNIT NO 12 PH 1
363-120-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 59 DIAMOND OAKS UN 12 PH 1
363-120-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	POR LOT 60 DIAMOND OAKS UN 12 PH 1
363-130-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 DIAMOND OAKS UNIT NO 12 PH 1
363-130-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 DIAMOND OAKS UNIT NO 12 PH 1
363-130-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 DIAMOND OAKS UNIT NO 12 PH 1
363-130-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 DIAMOND OAKS UNIT NO 12 PH 1
363-130-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 DIAMOND OAKS UNIT NO 12 PH 1
363-130-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 DIAMOND OAKS UNIT NO 12 PH 1
363-130-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 DIAMOND OAKS UNIT NO 12 PH 1
363-130-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 DIAMOND OAKS UNIT NO 12 PH 1
363-130-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 DIAMOND OAKS UNIT NO 12 PH 1
363-130-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 DIAMOND OAKS UNIT NO 12 PH 1
363-130-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 DIAMOND OAKS UNIT NO 12 PH 1
363-130-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 DIAMOND OAKS UNIT NO 12 PH 1

City of Roseville
North Central Roseville Specific Plan Landscaping and Lighting District
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[illegible]

City of Roseville

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-140-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 75 DIAMOND OAKS UNIT NO 12 PH 1
363-140-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 76 DIAMOND OAKS UNIT NO 12 PH 1
363-150-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PARCEL
363-150-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PARCEL
363-150-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PARCEL
363-150-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PARCEL
363-150-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PARCEL
363-150-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PARCEL
363-150-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PARCEL
363-150-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PARCEL
363-150-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PARCEL
363-150-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PARCEL
363-150-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PARCEL
363-150-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PARCEL
363-150-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PARCEL
363-150-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PARCEL
363-150-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PARCEL
363-150-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST PARCEL
363-150-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST PARCEL
363-150-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST PARCEL
363-150-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST PARCEL
363-150-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST PARCEL
363-150-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RESERVE WEST PARCEL
363-150-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RESERVE WEST PARCEL
363-150-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RESERVE WEST PARCEL
363-150-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RESERVE WEST PARCEL
363-150-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST PARCEL
363-150-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST PARCEL
363-150-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST PARCEL
363-160-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PARCEL
363-160-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PARCEL
363-160-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PARCEL
363-160-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PARCEL
363-160-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PARCEL
363-160-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PARCEL
363-160-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PARCEL
363-160-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PARCEL
363-160-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PARCEL
363-160-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PARCEL
363-160-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PARCEL
363-160-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PARCEL
363-160-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PARCEL
363-160-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PARCEL
363-160-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PARCEL
363-160-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST PARCEL
363-160-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST PARCEL
363-160-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST PARCEL

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-170-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PAR B
363-170-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PAR B
363-170-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PAR B
363-170-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST PAR B
363-170-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST PAR B
363-170-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST PAR B
363-170-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST PAR B
363-170-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST PAR B
363-170-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST PAR B
363-170-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RESERVE WEST PAR B
363-170-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST PAR B
363-170-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RESERVE WEST PAR B
363-170-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RESERVE WEST PAR B
363-170-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 HIGHLAND RESERVE WEST PAR B
363-170-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 HIGHLAND RESERVE WEST PAR B
363-170-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 HIGHLAND RESERVE WEST PAR B
363-170-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 HIGHLAND RESERVE WEST PAR B
363-170-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 16 & 17 HIGHLAND RESERVE WEST
363-170-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 21 & 22 HIGHLAND RESERVE WEST
363-170-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 23 & 24 HIGHLAND RESERVE WEST
363-170-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 63 & 64 HIGHLAND RESERVE WEST
363-180-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PAR B T
363-180-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PAR B T
363-180-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PAR B T
363-180-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PAR B T
363-180-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PAR B T
363-180-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PAR B T
363-180-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST PAR B
363-180-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST PAR B
363-180-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST PAR B
363-180-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST PAR B
363-180-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST PAR B
363-180-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RESERVE WEST PAR B
363-180-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RESERVE WEST PAR B
363-180-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST PAR B
363-180-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST PAR B
363-180-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST PAR B
363-180-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE WEST PAR B
363-180-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RESERVE WEST PAR B
363-180-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RESERVE WEST PAR B
363-180-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST PAR B
363-180-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RESERVE WEST PAR B
363-180-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 HIGHLAND RESERVE WEST PAR B
363-180-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 HIGHLAND RESERVE WEST PAR B
363-180-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 HIGHLAND RESERVE WEST PAR B
363-180-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 HIGHLAND RESERVE WEST PAR B
363-180-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 HIGHLAND RESERVE WEST PAR B

Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-180-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 HIGHLAND RESERVE WEST PAR B
363-180-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 HIGHLAND RESERVE WEST PAR B
363-180-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RESERVE WEST PAR B
363-180-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RESERVE WEST PAR B
363-180-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 HIGHLAND RESERVE WEST PAR B
363-180-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 HIGHLAND RESERVE WEST PAR B
363-180-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 HIGHLAND RESERVE WEST PAR B
363-180-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 HIGHLAND RESERVE WEST PAR B
363-180-037-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 66 HIGHLAND RESERVE WEST PAR B
363-180-038-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 67 HIGHLAND RESERVE WEST PAR B
363-180-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 68 HIGHLAND RESERVE WEST PAR B
363-180-040-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 69 HIGHLAND RESERVE WEST PAR B
363-180-041-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 70 HIGHLAND RESERVE WEST PAR B
363-180-042-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 71 HIGHLAND RESERVE WEST PAR B
363-180-047-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 72 & 73 HIGHLAND RESERVE WEST
363-180-048-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOTS 2 & 3 HIGHLAND RESERVE WEST PA
363-190-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PARCEL
363-190-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PARCEL
363-190-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PARCEL
363-190-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PARCEL
363-190-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PARCEL
363-190-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PARCEL
363-190-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PARCEL
363-190-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PARCEL
363-190-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PARCEL
363-190-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PARCEL
363-190-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PARCEL
363-190-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PARCEL
363-190-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PARCEL
363-190-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PARCEL
363-190-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PARCEL
363-190-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST PARCEL
363-190-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST PARCEL
363-190-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST PARCEL
363-190-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST PARCEL
363-190-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST PARCEL
363-190-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RESERVE WEST PARCEL
363-190-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RESERVE WEST PARCEL
363-190-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RESERVE WEST PARCEL
363-190-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RESERVE WEST PARCEL
363-190-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST PARCEL
363-190-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST PARCEL
363-190-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST PARCEL
363-190-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RESERVE WEST PARCEL
363-190-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST PARCEL
363-190-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RESERVE WEST PARCEL
363-190-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RESERVE WEST PARCEL

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-190-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST PARCEL
363-190-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST PARCEL
363-190-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST PARCEL
363-190-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RESERVE WEST PARCEL
363-190-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RESERVE WEST PARCEL
363-190-037-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RESERVE WEST PARCEL
363-190-038-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RESERVE WEST PARCEL
363-190-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RESERVE WEST PARCEL
363-190-040-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RESERVE WEST PARCEL
363-190-041-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RESERVE WEST PARCEL
363-190-042-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RESERVE WEST PARCEL
363-190-043-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RESERVE WEST PARCEL
363-190-044-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RESERVE WEST PARCEL
363-190-045-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST PARCEL
363-200-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 BRIARCLIFF UNIT NO 1 MOR U-15
363-200-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 BRIARCLIFF UNIT NO 1 MOR U-15
363-200-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 BRIARCLIFF UNIT NO 1 MOR U-15
363-200-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 BRIARCLIFF UNIT NO 1 MOR U-15
363-200-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 BRIARCLIFF UNIT NO 1 MOR U-15
363-200-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 BRIARCLIFF UNIT NO 1 MOR U-15
363-200-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 BRIARCLIFF UNIT NO 1 MOR U-15
363-200-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 BRIARCLIFF UNIT NO 1 MOR U-15
363-200-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 BRIARCLIFF UNIT NO 1 MOR U-15
363-200-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 64 BRIARCLIFF UNIT NO 1 MOR U-1
363-200-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 BRIARCLIFF UNIT NO 1 MOR U-1

Fiscal Year 2020/21 Preliminary Assessment Roll

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City of Roseville
North Central Roseville Specific Plan Landscaping and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

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City of Roseville

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-230-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LT 53 HIGHLAND RESERVE PAR 17A UNIT
363-230-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LT 54 HIGHLAND RESERVE PAR 17A UNIT
363-230-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LT 55 HIGHLAND RESERVE PAR 17A UNIT
363-230-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LT 56 HIGHLAND RESERVE PAR 17A UNIT
363-230-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LT 57 HIGHLAND RESERVE PAR 17A UNIT
363-230-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LT 58 HIGHLAND RESERVE PAR 17A UNIT
363-230-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LT 59 HIGHLAND RESERVE PAR 17A UNIT
363-240-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 76 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 77 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 78 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 79 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 80 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 81 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 82 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 92 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 93 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 94 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 95 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 96 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 97 BRIARCLIFF UNIT NO 2 MOR U-2
363-240-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 104 BRIARCLIFF UNIT NO 2 MOR U-
363-240-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 105 BRIARCLIFF UNIT NO 2 MOR U-
363-240-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 119 BRIARCLIFF UNIT NO 2 MOR U-
363-240-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 120 BRIARCLIFF UNIT NO 2 MOR U-
363-240-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 121 BRIARCLIFF UNIT NO 2 MOR U-
363-240-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 122 BRIARCLIFF UNIT NO 2 MOR U-
363-240-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 123 BRIARCLIFF UNIT NO 2 MOR U-
363-240-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 124 BRIARCLIFF UNIT NO 2 MOR U-
363-240-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 125 BRIARCLIFF UNIT NO 2 MOR U-
363-240-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 129 BRIARCLIFF UNIT NO 2 MOR U-
363-240-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 130 BRIARCLIFF UNIT NO 2 MOR U-
363-240-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 131 BRIARCLIFF UNIT NO 2 MOR U-
363-240-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 132 BRIARCLIFF UNIT NO 2 MOR U-
363-240-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 133 BRIARCLIFF UNIT NO 2 MOR U-
363-240-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 134 BRIARCLIFF UNIT NO 2 MOR U-
363-240-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 135 BRIARCLIFF UNIT NO 2 MOR U-
363-240-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 136 BRIARCLIFF UNIT NO 2 MOR U-
363-240-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 137 BRIARCLIFF UNIT NO 2 MOR U-
363-240-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 138 BRIARCLIFF UNIT NO 2 MOR U-
363-240-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 139 BRIARCLIFF UNIT NO 2 MOR U-
363-240-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 140 BRIARCLIFF UNIT NO 2 MOR U-
363-240-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 141 BRIARCLIFF UNIT NO 2 MOR U-
363-240-036-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 142 BRIARCLIFF UNIT NO 2 MOR U-
363-240-037-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 143 BRIARCLIFF UNIT NO 2 MOR U-
363-240-038-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 144 BRIARCLIFF UNIT NO 2 MOR U-
363-240-039-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 145 BRIARCLIFF UNIT NO 2 MOR U-
363-240-040-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 146 BRIARCLIFF UNIT NO 2 MOR U-

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-240-041-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 147 BRIARCLIFF UNIT NO 2 MOR U-
363-240-042-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 148 BRIARCLIFF UNIT NO 2 MOR U-
363-240-043-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 149 BRIARCLIFF UNIT NO 2 MOR U-
363-240-044-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 150 BRIARCLIFF UNIT NO 2 MOR U-
363-240-045-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 151 BRIARCLIFF UNIT NO 2 MOR U-
363-240-046-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 152 BRIARCLIFF UNIT NO 2 MOR U-
363-240-047-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 153 BRIARCLIFF UNIT NO 2 MOR U-
363-240-048-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 154 BRIARCLIFF UNIT NO 2 MOR U-
363-240-049-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 155 BRIARCLIFF UNIT NO 2 MOR U-
363-240-050-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 156 BRIARCLIFF UNIT NO 2 MOR U-
363-240-051-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 157 BRIARCLIFF UNIT NO 2 MOR U-
363-240-052-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 158 BRIARCLIFF UNIT NO 2 MOR U-
363-240-053-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 159 BRIARCLIFF UNIT NO 2 MOR U-
363-240-054-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 160 BRIARCLIFF UNIT NO 2 MOR U-
363-240-055-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 161 BRIARCLIFF UNIT NO 2 MOR U-
363-240-056-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 162 BRIARCLIFF UNIT NO 2 MOR U-
363-240-057-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 163 BRIARCLIFF UNIT NO 2 MOR U-
363-240-058-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 164 BRIARCLIFF UNIT NO 2 MOR U-
363-240-059-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 165 BRIARCLIFF UNIT NO 2 MOR U-
363-240-060-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	POR LOT A OPEN SPACE U-27
363-240-061-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	POR LOT E OPEN SPACE U-27
363-240-062-000	Local&District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Open Space	POR LOT F OPEN SPACE U-27
363-250-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 83 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 84 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 85 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 86 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 87 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 88 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 89 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 90 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 91 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 98 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 99 BRIARCLIFF UNIT NO 2 MOR U-2
363-250-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 100 BRIARCLIFF UNIT NO 2 MOR U-
363-250-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 101 BRIARCLIFF UNIT NO 2 MOR U-
363-250-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 102 BRIARCLIFF UNIT NO 2 MOR U-
363-250-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 103 BRIARCLIFF UNIT NO 2 MOR U-
363-250-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 106 BRIARCLIFF UNIT NO 2 MOR U-
363-250-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 107 BRIARCLIFF UNIT NO 2 MOR U-
363-250-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 108 BRIARCLIFF UNIT NO 2 MOR U-
363-250-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 109 BRIARCLIFF UNIT NO 2 MOR U-
363-250-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 110 BRIARCLIFF UNIT NO 2 MOR U-
363-250-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 111 BRIARCLIFF UNIT NO 2 MOR U-
363-250-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 112 BRIARCLIFF UNIT NO 2 MOR U-
363-250-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 113 BRIARCLIFF UNIT NO 2 MOR U-
363-250-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 114 BRIARCLIFF UNIT NO 2 MOR U-
363-250-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 115 BRIARCLIFF UNIT NO 2 MOR U-

City of Roseville

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-270-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PARCEL
363-270-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PARCEL
363-270-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PARCEL
363-270-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST PARCEL
363-270-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RESERVE WEST PARCEL
363-270-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RESERVE WEST PARCEL
363-270-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RESERVE WEST PARCEL
363-270-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RESERVE WEST PARCEL
363-270-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST PARCEL
363-270-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST PARCEL
363-280-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PARCEL
363-280-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PARCEL
363-280-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PARCEL
363-280-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PARCEL
363-280-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PARCEL
363-280-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PARCEL
363-280-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PARCEL
363-280-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST PARCEL
363-280-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST PARCEL
363-280-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST PARCEL
363-280-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST PARCEL
363-290-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PAR A M
363-290-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PAR A M
363-290-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PAR A M
363-290-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PAR A M
363-290-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PAR A M
363-290-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PAR A M
363-290-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PAR A M
363-290-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PAR A M
363-290-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PAR A M
363-290-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PAR A
363-290-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PAR A
363-290-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PAR A
363-290-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PAR A
363-290-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PAR A
363-290-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PAR A
363-290-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST PAR A
363-290-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST PAR A
363-290-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST PAR A
363-290-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST PAR A
363-290-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 HIGHLAND RESERVE WEST PAR A
363-290-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 HIGHLAND RESERVE WEST PAR A
363-290-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 HIGHLAND RESERVE WEST PAR A
363-290-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 HIGHLAND RESERVE WEST PAR A
363-290-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RESERVE WEST PAR A
363-290-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RESERVE WEST PAR A
363-290-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 HIGHLAND RESERVE WEST PAR A

Fiscal Year 2020/21 Preliminary Assessment Roll

[illegible]

City of Roseville

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-300-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 HIGHLAND RESERVE WEST PAR A
363-310-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RES PAR 17B UN 1 U-4
363-310-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RES PAR 17B UN 1 U-4
363-310-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RES PAR 17B UN 1 U-4
363-310-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RES PAR 17B UN 1 U-4
363-310-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RES PAR 17B UN 1 U-4
363-310-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RES PAR 17B UN 1 U-4
363-310-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RES PAR 17B UN 1 U-4
363-310-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RES PAR 17B UN 1 U-4
363-310-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RES PAR 17B UN 1 U-4
363-310-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RES PAR 17B UN 1 U-
363-310-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RES PAR 17B UN 1 U-
363-310-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RES PAR 17B UN 1 U-
363-310-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RES PAR 17B UN 1 U-
363-310-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RES PAR 17B UN 1 U-
363-310-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RES PAR 17B UN 1 U-
363-310-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RES PAR 17B UN 1 U-
363-310-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RES PAR 17B UN 1 U-
363-320-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RES PAR 17B UN 1 U-
363-320-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RES PAR 17B UN 1 U-
363-320-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RES PAR 17B UN 1 U-
363-320-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RES PAR 17B UN 1 U-
363-320-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RES PAR 17B UN 1 U-
363-320-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RES PAR 17B UN 1 U-
363-320-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RES PAR 17B UN 1 U-
363-320-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RES PAR 17B UN 1 U-
363-320-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RES PAR 17B UN 1 U-
363-320-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RES PAR 17B UN 1 U-
363-320-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RES PAR 17B UN 1 U-
363-320-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RES PAR 17B UN 1 U-
363-320-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 39 HIGHLAND RES PAR 17B UN 1 U-
363-320-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 40 HIGHLAND RES PAR 17B UN 1 U-
363-320-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 41 HIGHLAND RES PAR 17B UN 1 U-
363-320-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 42 HIGHLAND RES PAR 17B UN 1 U-
363-320-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 43 HIGHLAND RES PAR 17B UN 1 U-
363-320-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 44 HIGHLAND RES PAR 17B UN 1 U-
363-320-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RES PAR 17B UN 1 U-
363-320-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RES PAR 17B UN 1 U-
363-320-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 HIGHLAND RES PAR 17B UN 1 U-
363-320-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 HIGHLAND RES PAR 17B UN 1 U-
363-320-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 HIGHLAND RES PAR 17B UN 1 U-
363-320-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 HIGHLAND RES PAR 17B UN 1 U-
363-320-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 HIGHLAND RES PAR 17B UN 1 U-
363-320-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 HIGHLAND RES PAR 17B UN 1 U-
363-320-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 HIGHLAND RES PAR 17B UN 1 U-
363-320-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RES PAR 17B UN 1 U-
363-320-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RES PAR 17B UN 1 U-

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-320-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 HIGHLAND RES PAR 17B UN 1 U-
363-320-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 HIGHLAND RES PAR 17B UN 1 U-
363-320-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 HIGHLAND RES PAR 17B UN 1 U-
363-330-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RES PAR 17B UN 1 U-
363-330-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RES PAR 17B UN 1 U-
363-330-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RES PAR 17B UN 1 U-
363-330-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RES PAR 17B UN 1 U-
363-330-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RES PAR 17B UN 1 U-
363-330-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 35 HIGHLAND RES PAR 17B UN 1 U-
363-330-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 36 HIGHLAND RES PAR 17B UN 1 U-
363-330-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 37 HIGHLAND RES PAR 17B UN 1 U-
363-330-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 38 HIGHLAND RES PAR 17B UN 1 U-
363-330-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 HIGHLAND RES PAR 17B UN 1 U-
363-330-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 HIGHLAND RES PAR 17B UN 1 U-
363-330-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 HIGHLAND RES PAR 17B UN 1 U-
363-330-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 HIGHLAND RES PAR 17B UN 1 U-
363-330-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 HIGHLAND RES PAR 17B UN 1 U-
363-330-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 64 HIGHLAND RES PAR 17B UN 1 U-
363-330-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 65 HIGHLAND RES PAR 17B UN 1 U-
363-330-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 66 HIGHLAND RES PAR 17B UN 1 U-
363-330-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 67 HIGHLAND RES PAR 17B UN 1 U-
363-330-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 68 HIGHLAND RES PAR 17B UN 1 U-
363-330-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 69 HIGHLAND RES PAR 17B UN 1 U-
363-340-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 81 DIAMOND OAKS UNIT 12 PH II M
363-340-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 82 DIAMOND OAKS UNIT 12 PH II M
363-340-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 83 DIAMOND OAKS UNIT 12 PH II M
363-340-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 84 DIAMOND OAKS UNIT 12 PH II M
363-340-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 85 DIAMOND OAKS UNIT 12 PH II M
363-340-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 86 DIAMOND OAKS UNIT 12 PH II M
363-340-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 87 DIAMOND OAKS UNIT 12 PH II M
363-340-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 88 DIAMOND OAKS UNIT 12 PH II M
363-340-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 89 DIAMOND OAKS UNIT 12 PH II M
363-340-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 90 DIAMOND OAKS UNIT 12 PH II M
363-340-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 91 DIAMOND OAKS UNIT 12 PH II M
363-340-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 92 DIAMOND OAKS UNIT 12 PH II M
363-340-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 93 DIAMOND OAKS UNIT 12 PH II M
363-340-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 94 DIAMOND OAKS UNIT 12 PH II M
363-340-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 95 DIAMOND OAKS UNIT 12 PH II M
363-340-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 96 DIAMOND OAKS UNIT 12 PH II M
363-340-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 97 DIAMOND OAKS UNIT 12 PH II M
363-340-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 98 DIAMOND OAKS UNIT 12 PH II M
363-340-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 99 DIAMOND OAKS UNIT 12 PH II M
363-340-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 100 DIAMOND OAKS UNIT 12 PH II
363-340-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 101 DIAMOND OAKS UNIT 12 PH II
363-340-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 102 DIAMOND OAKS UNIT 12 PH II
363-340-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 103 DIAMOND OAKS UNIT 12 PH II
363-340-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 104 DIAMOND OAKS UNIT 12 PH II

City of Roseville
North Central Roseville Specific Plan Landscaping and Lighting District
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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-340-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 105 DIAMOND OAKS UNIT 12 PH II
363-340-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 106 DIAMOND OAKS UNIT 12 PH II
363-340-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 107 DIAMOND OAKS UNIT 12 PH II
363-340-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 108 DIAMOND OAKS UNIT 12 PH II
363-340-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 109 DIAMOND OAKS UNIT 12 PH II
363-340-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 110 DIAMOND OAKS UNIT 12 PH II
363-340-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 111 DIAMOND OAKS UNIT 12 PH II
363-340-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 126 DIAMOND OAKS UNIT 12 PH II
363-340-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 127 DIAMOND OAKS UNIT 12 PH II
363-340-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 128 DIAMOND OAKS UNIT 12 PH II
363-340-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 129 DIAMOND OAKS UNIT 12 PH II
363-350-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 77 DIAMOND OAKS UNIT 12 PH II M
363-350-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 78 DIAMOND OAKS UNIT 12 PH II M
363-350-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 79 DIAMOND OAKS UNIT 12 PH II M
363-350-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 80 DIAMOND OAKS UNIT 12 PH II M
363-350-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 112 DIAMOND OAKS UNIT 12 PH II
363-350-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 113 DIAMOND OAKS UNIT 12 PH II
363-350-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 114 DIAMOND OAKS UNIT 12 PH II
363-350-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 115 DIAMOND OAKS UNIT 12 PH II
363-350-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 116 DIAMOND OAKS UNIT 12 PH II
363-350-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 117 DIAMOND OAKS UNIT 12 PH II
363-350-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 118 DIAMOND OAKS UNIT 12 PH II
363-350-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 119 DIAMOND OAKS UNIT 12 PH II
363-350-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 120 DIAMOND OAKS UNIT 12 PH II
363-350-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 121 DIAMOND OAKS UNIT 12 PH II
363-350-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 122 DIAMOND OAKS UNIT 12 PH II
363-350-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 123 DIAMOND OAKS UNIT 12 PH II
363-350-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 124 DIAMOND OAKS UNIT 12 PH II
363-350-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 125 DIAMOND OAKS UNIT 12 PH II
363-350-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 130 DIAMOND OAKS UNIT 12 PH II
363-350-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 131 DIAMOND OAKS UNIT 12 PH II
363-350-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 132 DIAMOND OAKS UNIT 12 PH II
363-350-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 133 DIAMOND OAKS UNIT 12 PH II
363-360-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 134 DIAMOND OAKS UNIT NO.12 PH
363-360-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 135 DIAMOND OAKS UNIT NO.12 PH
363-360-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 136 DIAMOND OAKS UNIT NO.12 PH
363-360-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 137 DIAMOND OAKS UNIT NO.12 PH
363-360-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 138 DIAMOND OAKS UNIT NO.12 PH
363-360-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 139 DIAMOND OAKS UNIT NO.12 PH
363-360-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 140 DIAMOND OAKS UNIT NO.12 PH
363-360-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 141 DIAMOND OAKS UNIT NO.12 PH
363-360-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 142 DIAMOND OAKS UNIT NO.12 PH
363-360-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 143 DIAMOND OAKS UNIT NO.12 PH
363-360-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 144 DIAMOND OAKS UNIT NO.12 PH
363-360-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 145 DIAMOND OAKS UNIT NO.12 PH
363-360-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 146 DIAMOND OAKS UNIT NO.12 PH
363-360-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 147 DIAMOND OAKS UNIT NO.12 PH

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-390-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 PROMONTORY POINTE U-77
363-390-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 PROMONTORY POINTE U-77
363-390-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 PROMONTORY POINTE U-77
363-390-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 PROMONTORY POINTE U-77
363-390-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 PROMONTORY POINTE U-77
363-390-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 PROMONTORY POINTE U-77
363-390-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 PROMONTORY POINTE U-77
363-390-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 PROMONTORY POINTE U-77
363-390-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 PROMONTORY POINTE U-77
363-390-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 PROMONTORY POINTE U-77
363-390-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 PROMONTORY POINTE U-77
363-390-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 PROMONTORY POINTE U-77
363-390-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 PROMONTORY POINTE U-77
363-390-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 PROMONTORY POINTE U-77
363-390-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 PROMONTORY POINTE U-77
363-390-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 PROMONTORY POINTE U-77
363-390-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 PROMONTORY POINTE U-77
363-390-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 PROMONTORY POINTE U-77
363-390-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 PROMONTORY POINTE U-77
363-390-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 PROMONTORY POINTE U-77
363-390-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 PROMONTORY POINTE U-77
363-390-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 PROMONTORY POINTE U-77
363-390-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 PROMONTORY POINTE U-77
363-390-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 PROMONTORY POINTE U-77
363-390-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 PROMONTORY POINTE U-77
363-390-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 PROMONTORY POINTE U-77
363-390-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 PROMONTORY POINTE U-77
363-390-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 PROMONTORY POINTE U-77
363-390-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 PROMONTORY POINTE U-77
363-390-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 PROMONTORY POINTE U-77
363-400-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 70 HIGHLAND RESERVE LOT 17B UNI
363-400-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 71 HIGHLAND RESERVE LOT 17B UNI
363-400-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 72 HIGHLAND RESERVE LOT 17B UNI
363-400-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 73 HIGHLAND RESERVE LOT 17B UNI
363-400-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 74 HIGHLAND RESERVE LOT 17B UNI
363-400-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 75 HIGHLAND RESERVE LOT 17B UNI
363-400-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 76 HIGHLAND RESERVE LOT 17B UNI
363-400-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 77 HIGHLAND RESERVE LOT 17B UNI
363-400-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 78 HIGHLAND RESERVE LOT 17B UNI
363-400-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 79 HIGHLAND RESERVE LOT 17B UNI
363-400-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 80 HIGHLAND RESERVE LOT 17B UNI
363-400-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 81 HIGHLAND RESERVE LOT 17B UNI
363-400-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 82 HIGHLAND RESERVE LOT 17B UNI
363-400-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 83 HIGHLAND RESERVE LOT 17B UNI
363-400-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 84 HIGHLAND RESERVE LOT 17B UNI
363-400-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 85 HIGHLAND RESERVE LOT 17B UNI
363-400-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 86 HIGHLAND RESERVE LOT 17B UNI

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-400-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 87 HIGHLAND RESERVE LOT 17B UNI
363-400-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 88 HIGHLAND RESERVE LOT 17B UNI
363-400-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 89 HIGHLAND RESERVE LOT 17B UNI
363-400-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 90 HIGHLAND RESERVE LOT 17B UNI
363-400-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 91 HIGHLAND RESERVE LOT 17B UNI
363-400-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 92 HIGHLAND RESERVE LOT 17B UNI
363-400-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 93 HIGHLAND RESERVE LOT 17B UNI
363-400-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 94 HIGHLAND RESERVE LOT 17B UNI
363-400-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 95 HIGHLAND RESERVE LOT 17B UNI
363-400-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 96 HIGHLAND RESERVE LOT 17B UNI
363-400-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 97 HIGHLAND RESERVE LOT 17B UNI
363-400-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 98 HIGHLAND RESERVE LOT 17B UNI
363-400-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 99 HIGHLAND RESERVE LOT 17B UNI
363-400-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 100 HIGHLAND RESERVE LOT 17B UN
363-400-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 101 HIGHLAND RESERVE LOT 17B UN
363-400-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 102 HIGHLAND RESERVE LOT 17B UN
363-400-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 103 HIGHLAND RESERVE LOT 17B UN
363-400-035-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 104 HIGHLAND RESERVE LOT 17B UN
363-410-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PAR O V
363-410-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PAR O V
363-410-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PAR O V
363-410-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PAR O V
363-410-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PAR O V
363-410-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PAR O V
363-410-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PAR O V
363-410-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PAR O V
363-410-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PAR O V
363-410-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PAR O
363-410-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST PAR O
363-410-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST PAR O
363-410-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PAR O
363-410-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST PAR O
363-410-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST PAR O
363-410-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST PAR O
363-410-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST PAR O
363-410-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST PAR O
363-410-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST PAR O
363-410-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST PAR O
363-410-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RESERVE WEST PAR O
363-410-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RESERVE WEST PAR O
363-410-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RESERVE WEST PAR O
363-410-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RESERVE WEST PAR O
363-420-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST- PARCEL
363-420-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST- PARCEL
363-420-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST- PARCEL
363-420-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST-PARS MO
363-420-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST- PARCEL

City of Roseville

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-420-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST- PARCEL
363-420-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST- PARCEL
363-420-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST - PARCE
363-420-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST- PARCEL
363-420-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST- PARCE
363-420-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 HIGHLAND RESERVE WEST- PARCE
363-420-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 HIGHLAND RESERVE WEST-PARS M
363-420-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST- PARCE
363-420-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE WEST- PARCE
363-420-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 HIGHLAND RESERVE WEST- PARCE
363-420-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 HIGHLAND RESERVE WEST- PARCE
363-420-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 HIGHLAND RESERVE WEST- PARCE
363-420-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 HIGHLAND RESERVE WEST- PARCE
363-420-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 19 HIGHLAND RESERVE WEST- PARCE
363-420-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 20 HIGHLAND RESERVE WEST- PARCE
363-420-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 21 HIGHLAND RESERVE WEST- PARCE
363-420-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 22 HIGHLAND RESERVE WEST-PARS M
363-420-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 23 HIGHLAND RESERVE WEST- PARCE
363-420-024-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 24 HIGHLAND RESERVE WEST- PARCE
363-420-025-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 25 HIGHLAND RESERVE WEST- PARCE
363-420-026-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 26 HIGHLAND RESERVE WEST- PARCE
363-420-027-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 27 HIGHLAND RESERVE WEST- PARCE
363-420-028-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 28 HIGHLAND RESERVE WEST- PARCE
363-420-029-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 29 HIGHLAND RESERVE WEST- PARCE
363-420-030-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 30 HIGHLAND RESERVE WEST- PARCE
363-420-031-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 31 HIGHLAND RESERVE WEST- PARCE
363-420-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 32 HIGHLAND RESERVE WEST-PARCEL
363-420-033-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 33 HIGHLAND RESERVE WEST- PARCE
363-420-034-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 34 HIGHLAND RESERVE WEST- PARCE
363-430-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 DIAMOND OAKS UNIT 13, MOR V-3
363-430-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 DIAMOND OAKS UNIT 13, MOR V-3
363-430-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 DIAMOND OAKS UNIT 13, MOR V-
363-430-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 DIAMOND OAKS UNIT 13, MOR V-
363-430-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 DIAMOND OAKS UNIT 13, MOR V-
363-430-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 DIAMOND OAKS UNIT 13, MOR V-
363-430-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 DIAMOND OAKS UNIT 13, MOR V-
363-430-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT8 DIAMOND OAKS UNIT 13, MOR V-3
363-430-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT9 DIAMOND OAKS UNIT 13, MOR V-3
363-430-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 DIAMOND OAKS UNIT 13, MOR V
363-430-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 11 DIAMOND OAKS UNIT 13, MOR V
363-430-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 12 DIAMOND OAKS UNIT 13, MOR V
363-430-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 DIAMOND OAKS UNIT 13, MOR V
363-430-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 DIAMOND OAKS UNIT 13, MOR V
363-430-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 15 DIAMOND OAKS UNIT 13, MOR V
363-430-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 16 DIAMOND OAKS UNIT 13, MOR V
363-430-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 17 DIAMOND OAKS UNIT 13, MOR V
363-430-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 18 DIAMOND OAKS UNIT 13, MOR V

**North Central Roseville Specific Plan Landscaping and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll**

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-460-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 45 HIGHLAND RESERVE WEST PAR D
363-460-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 46 HIGHLAND RESERVE WEST PAR D
363-460-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 47 HIGHLAND RESERVE WEST PAR D
363-460-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 48 HIGHLAND RESERVE WEST PAR D
363-460-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 49 HIGHLAND RESERVE WEST PAR D
363-460-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 50 HIGHLAND RESERVE WEST PAR D
363-460-011-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 51 HIGHLAND RESERVE WEST PAR D
363-460-012-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 52 HIGHLAND RESERVE WEST PAR D
363-460-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 53 HIGHLAND RESERVE WEST PAR D
363-460-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 54 HIGHLAND RESERVE WEST PAR D
363-460-015-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 55 HIGHLAND RESERVE WEST PAR D
363-460-016-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 56 HIGHLAND RESERVE WEST PAR D
363-460-017-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 57 HIGHLAND RESERVE WEST PAR D
363-460-018-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 58 HIGHLAND RESERVE WEST PAR D
363-460-019-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 59 HIGHLAND RESERVE WEST PAR D
363-460-020-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 60 HIGHLAND RESERVE WEST PAR D
363-460-021-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 61 HIGHLAND RESERVE WEST PAR D
363-460-022-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 62 HIGHLAND RESERVE WEST PAR D
363-460-023-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 63 HIGHLAND RESERVE WEST PAR D
363-470-001-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 1 HIGHLAND RESERVE WEST PAR E P
363-470-002-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 2 HIGHLAND RESERVE WEST PAR E P
363-470-003-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 3 HIGHLAND RESERVE WEST PAR E P
363-470-004-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 4 HIGHLAND RESERVE WEST PAR E P
363-470-005-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 5 HIGHLAND RESERVE WEST PAR E P
363-470-006-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 6 HIGHLAND RESERVE WEST PAR E P
363-470-007-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 7 HIGHLAND RESERVE WEST PAR E P
363-470-008-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 8 HIGHLAND RESERVE WEST PAR E P
363-470-009-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 9 HIGHLAND RESERVE WEST PAR E P
363-470-010-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 10 HIGHLAND RESERVE WEST PAR E
363-470-013-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 13 HIGHLAND RESERVE WEST PAR E
363-470-014-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	LOT 14 HIGHLAND RESERVE

City of Roseville
North Central Roseville Specific Plan Landscaping and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASMT	DISTRICT WIDE EDUS	LOCAL EDUS	TOTAL EDUS	SF UNITS	MF UNITS	NON RES ACRES	LAND USE	LEGAL DESCRIPTION
363-470-032-000	Local&District - Wide	135.98	135.98	1.0	1.0	1.0	1.0	0.0	0.0	SF Residential	L 11 & P LOT12 HIGHLAND RESERVE WEST
493-010-002-000	District - Wide	13,205.34	13,205.63	201.6	0.0	201.6	0.0	336.0	0.0	MF Residential	17.8 AC LOT A PMOR 35-20 THE PRESER
N361-230-020-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Non Residential	
N361-230-021-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Non Residential	
N361-230-022-000	District - Wide	-	-	0.0	0.0	0.0	0.0	0.0	0.0	Non Residential	

Summary Fields	Value
ACTIVE PARCELS	3,624
LEVIED PARCELS	3,494
CHARGE	706,163.36
MAXIMUM ASMT	706,438.31
DISTRICT WIDE EDUS	7,510.7963
LOCAL EDUS	2,113.0000
TOTAL EDUS	7,628.7963
SF UNITS	2,231
MF UNITS	2,348
NON RES ACRES	565.95

RESOLUTION NO. 20-153

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Northwest Roseville Specific Plan Landscaping and Lighting District (hereafter referred to as the “District”) pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”), that provides for levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of street lighting, landscaping, and all appurtenant facilities and operations related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter “Engineer”) for the purpose of assisting with the establishment of the assessments, the annexation of territory, and to prepare and file an Engineer’s Annual Levy Report (hereinafter referred to as the “Engineer’s Report”) with the City Clerk in accordance with the act, and in accordance with the California Constitution, Articles XIII C and XIII D;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 Engineer’s Report: The City Council hereby orders Willdan Financial Services to prepare the Engineer’s Report concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22622* of the Act.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include turf, ground cover, shrubs and trees, irrigation systems, drainage systems, natural areas, open space areas, public pedestrian paths, entry monuments, fencing, lighting systems, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

RESOLUTION NO. 20-153

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-154

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Northwest Roseville Specific Plan Landscaping and Lighting District (hereafter referred to as the “District”), and initiated proceedings for Fiscal Year 2020/2021, pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”) that provides for the levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of all improvements and facilities related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services for the purpose of assisting with the Annual Levy of the District, and to prepare and file a report with the City Clerk in accordance with the Act; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, PURSUANT TO CHAPTER 3, SECTION 22624 OF THE ACT, AS FOLLOWS:

Section 1 Intention: The City Council hereby declares that it is its intention to seek the Annual Levy of the District pursuant to the Act, over and including the land within the District boundary, and to levy and collect assessments on all such land to pay the annual costs of the improvements.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include turf, ground cover, shrubs and trees, irrigation systems, drainage systems, natural areas, open space areas, public pedestrian paths, entry monuments, fencing, lighting systems, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

Section 3 Boundaries and Designation: The boundaries of the District are described as the boundaries previously defined in the formation documents of the District. The District generally includes the parcels within the area known as the Northwest Roseville Specific Plan. The District is known and designated as

“Northwest Roseville Specific Plan Landscaping and Lighting District”

Section 4 Proposed Assessment Amounts: The proposed assessments are outlined in the Engineer’s Annual Levy Report. District Assessments are calculated in accordance with the method of apportionment established for the District and do not exceed the assessment rates.

Section 5 Public Hearing(s): The City Council hereby declares its intention to conduct a Public Hearing annually concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22626* of the Act.

Section 6 Notice: The City Clerk shall give notice of the time and place of the Public Hearing by causing the publishing of this Resolution once in a local newspaper not less than ten (10) days before the date of the hearing and by posting a copy of this Resolution on the official bulletin board customarily used by the City Council for the posting of notices.

Section 7 Time and Place of Public Hearing: Notice is hereby given that a Public Hearing on these matters will be held by the City Council on **Wednesday, May 20, 2020 at 6:00 p.m.**, or as soon thereafter as feasible in the regular meeting chambers located at 311 Vernon Street, Roseville, California.

RESOLUTION NO. 20-154

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-155

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S LEVY REPORT FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the "City Council") does resolve as follows:

WHEREAS, the City Council has, by previous Resolutions, ordered the preparation of an Engineer's Levy Report (hereafter referred to as the "Engineer's Report") for the district known and designated as the Northwest Roseville Specific Plan Landscaping and Lighting District (hereafter referred to as the "District"), pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereinafter referred to as the "Act"); and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter "Engineer"), for the purpose of assisting with the establishment of the assessments and to prepare and file an Engineer's Report with the City Clerk in accordance with the Act, and in accordance with the requirements of the California Constitution, Articles XIIC and XIID; and,

WHEREAS, there has now been presented to this City Council the Engineer's Report as required by *Chapter 1, Article 4, Section 22566* of said Act; and,

WHEREAS, this City Council has carefully examined and reviewed the Engineer's Report as presented, and is preliminarily satisfied with the District, each and all of the budget items and documents as set forth therein, and is satisfied that the assessments, on a preliminary basis, have been spread in accordance with the benefits received from the improvements, operation, maintenance and services to be performed within each Zone, as set forth in said Report; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 That the above recitals are all true and correct.

Section 2 that the Engineer's Report as presented, consists of the following:

- a. A Description of Improvements
- b. The Annual Budget (Costs and Expenses of Maintenance, Services, Operations and District Administration)
- c. The Assessment Roll containing the Fiscal Year 2020/2021 Levy for each Assessor Parcel within the District

Section 3 The Engineer's Report is hereby approved on a preliminary basis, and ordered to be filed in the Office of the City Clerk as a permanent record and to remain open to public inspection.

Section 4 That the City Clerk shall certify to the passage and adoption of this Resolution, and the minutes of this meeting shall so reflect the presentation of the Engineer's Report.

RESOLUTION NO. 20-155

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville



City of Roseville

Northwest Roseville Specific Plan Landscaping and Lighting District

2020/21 ENGINEER'S ANNUAL LEVY REPORT

Intent Meeting: May 6, 2020
Public Hearing: May 20, 2020

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ENGINEER'S REPORT AFFIDAVIT

Establishment of Annual Rates and Charges for the:

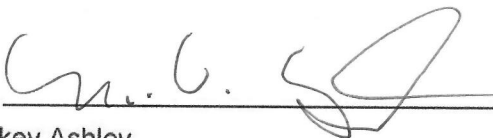
Northwest Roseville Specific Plan
Landscaping and Lighting District

City of Roseville
Placer County, State of California

This Report describes the District and any relevant zones therein, including the improvements, budgets, parcels and assessments to be levied for Fiscal Year 2020/21 as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Placer County Assessor's maps for a detailed description of the lines and dimensions of parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the City Council.

Dated this 15th day of APRIL, 2020

Willdan Financial Services
Assessment Engineer
On Behalf of the City of Roseville

By: 

Mickey Ashley
Senior Project Analyst
District Administration Services

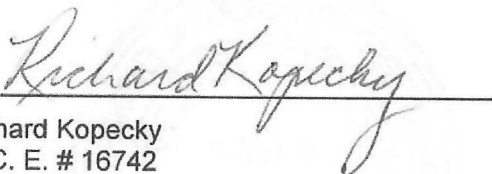
By: 
Richard Kopecky
R. C. E. # 16742



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I. OVERVIEW

A. INTRODUCTION

The City of Roseville (“City”) annually levies and collects special assessments in order to provide and maintain the improvements within the Northwest Roseville Specific Plan Area, known as Northwest Roseville Specific Plan Landscaping and Lighting District (“District”) within the City. The District was formed and is levied annual assessments pursuant to *the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the California Streets and Highways Code* (the “1972 Act” or the “Act”).

This Engineer’s Levy Report (“Report”) describes the District, any new annexations, changes to the District, and the proposed assessments for the period of July 1, 2020 through June 30, 2021. The assessments are based on historical and estimated costs to maintain the improvements that provide a direct and special benefit to properties within the District. The District consists of two (2) benefit zones (“Zones”). The improvements that benefit properties within each Zone and the costs of those improvements are identified and budgeted separately. Each parcel is assessed proportionately for the estimated costs of the parcel’s respective Zone.

The word “parcel,” for the purposes of this Report, refers to an individual property assigned its own Assessor’s Parcel Number by the Placer County Assessor’s Office. The Placer County Auditor/Controller (“County Auditor/Controller”) uses Assessor’s Parcel Numbers and specific Tax Code Accounts, to identify on the County’s tax roll, properties assessed for special district benefit assessments.

Following consideration of public comments at a public hearing, and a final review of the Report, the City Council may order amendments to the Report or confirm the Report as submitted. After final approval of the Report, and confirmation of the assessments, the assessment information will be submitted to the County Auditor/Controller. The County Auditor/Controller will include the assessments on the property tax roll for fiscal year 2020/21.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved by the City Council.

B. COMPLIANCE WITH CURRENT LEGISLATION

All assessments described in this Report and approved by the City Council are prepared in accordance with the 1972 Act and are in compliance with the provisions of the *California Constitution Article XIID* (Proposition 218). Pursuant to the *California Constitution Article XIID* (“*Article XIID*”) *Section 5*, certain existing assessments are exempt from the substantive and procedural requirements of *Article XIID Section 4* and property owner balloting for the assessments is not required until such time that the assessments are increased. Specifically, the City determined that all improvements and the annual assessments established for the original District were part of the conditions of property development and approved by the original property owner (developer). As such, pursuant to *Article XIID Section 5(b)*, the property owners approved these existing District assessments at the time the assessments were created (originally imposed pursuant to a 100% landowner petition). The assessments applied to the District’s parcels at the time of passage of Proposition 2018 of \$100 to each single-family residential parcel within Zone A and \$147.20 to each single family residential parcel within Zone B continue to be exempt from the procedural requirements *Article XIID Section 4*.

The District and all Zones therein have been formed pursuant to the 1972 Act. Pursuant to the 1972 Act, an annual Public Hearing is conducted by the City Council to accept property owner and public comments and to review the Report prior to approving the annual assessments to be levied on the County tax rolls. The assessments described in this Report have been prepared in accordance with the 1972 Act.

In November 2004, the City initiated and conducted property owner protest ballot proceedings, in accordance with the 1972 Act and Article XIID, to annex into Zone A, and approve the maximum assessment of \$100 per single family residential parcel. At the conclusion of the Public Hearing, the City determined that a majority protest did not exist. The City then approved the Engineer’s Report, through the adoption of Resolution No. 04-507, which annexed the Dunmore Junction territory to Zone A. Dunmore Junction was first assessed by the District in FY 2005/06.

In April 2005, the City initiated and conducted property owner protest ballot proceedings, in accordance with the 1972 Act and Article XIID, to annex into Zones B, and approve the maximum assessment of \$147.20 per single family residential parcel. At the conclusion of the Public Hearing, the City determined that a majority protest did not exist. The City then approved the Engineer’s Report, through the adoption of Resolution No. 05-165, which annexed the Legacy subdivision territory to Zone B. The Legacy subdivision was first assessed by the District in FY 2005/06.

C. DESCRIPTION OF DISTRICT BOUNDARIES

The Northwest Roseville Specific Plan Landscaping and Lighting District lies west of the existing urban area of the City of Roseville. The District is generally bounded by Baseline Road to the north, Fiddymont Road to the west and Washington Boulevard to the east. The City annexed in Dunmore Junction, which is generally located on the east side of Porter Drive, south of Junction Boulevard and north of Lawton Avenue. The City also annexed in Legacy Subdivision, which is generally located on the northwest corner of Washington Boulevard and Junction Boulevard. For general reference purposes, renderings of the District's Boundaries are presented in Appendix A of the Report.

D. IMPROVEMENTS AUTHORIZED BY THE 1972 ACT

As applicable or may be applicable to a proposed District, the 1972 Act defines improvements to mean one or any combination of the following:

- The installation or planting of landscaping.
- The installation or construction of statuary, fountains, and other ornamental structures and facilities.
- The installation or construction of public lighting facilities.
- The installation or construction of any facilities which are appurtenant to any of the foregoing or which are necessary or convenient for the maintenance or servicing thereof, including, but not limited to, grading, clearing, removal of debris, the installation or construction of curbs, gutters, walls, sidewalks, or paving, or water, irrigation, drainage, or electrical facilities.
- The maintenance or servicing, or both, of any of the foregoing.
- The acquisition of any existing improvement otherwise authorized pursuant to this section.

Incidental expenses associated with the improvements including, but not limited to:

- The cost of preparation of the report, including plans, specifications, estimates, diagram, and assessment;
- The costs of printing, advertising, and the publishing, posting and mailing of notices;
- Compensation payable to the County for collection of assessments;
- Compensation of any engineer or attorney employed to render services;
- Any other expenses incidental to the construction, installation, or maintenance and servicing of the improvements;
- Any expenses incidental to the issuance of bonds or notes pursuant to Section

22662.5.

- Costs associated with any elections held for the approval of a new or increased assessment.

The 1972 Act defines "Maintain" or "maintenance" to mean furnishing of services and materials for the ordinary and usual maintenance, operation, and servicing of any improvement, including:

- Repair, removal, or replacement of all or any part of any improvement.
- Providing for the life, growth, health, and beauty of landscaping, including cultivation, irrigation, trimming, spraying, fertilizing, or treating for disease or injury.
- The removal of trimmings, rubbish, debris, and other solid waste.
- The cleaning, sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Furthermore, the 1972 Act specifies that where the cost of improvements (other than maintenance and operations) is greater than can be conveniently raised from a single annual assessment, an assessment to be levied and collected in annual installments. In that event, the governing body may choose to do any of the following:

- Provide for the accumulation of the moneys in an improvement fund until there are sufficient moneys to pay all or part of the cost of the improvements.
- Provide for a temporary advance to the improvement fund from any available and unencumbered funds of the local agency to pay all or part of the cost of the improvements and collect those advanced moneys from the annual installments collected through the assessments.
- Borrow an amount necessary to finance the estimated cost of the proposed improvements. The amount borrowed, including amounts for bonds issued to finance the estimated cost of the proposed improvements.

E. DESCRIPTION OF IMPROVEMENTS AND SERVICES

Zone A

Zone A of the District, by special benefit assessments, is to provide funding for the maintenance of the following improvements: landscaped street medians and landscaped corridors adjacent to property within the District including but not limited to, plantings, sound walls, and project identification signs; the maintenance of the vernal pool preserves identified in the Northwest Roseville Specific Plan; the installation and maintenance of bike trails within the Northwest Roseville Specific Plan Area; and the installation of park improvements and/or the payment of debt service related to the installation of bike trails and/or park improvements within the Northwest Roseville Specific Plan Area.

Zone B

Zone B of the District, by special benefit assessments, is to provide funding for the following:

- The maintenance of the landscaped street buffers or medians, certain natural areas within the subdivision and landscape corridors adjacent to the property within the Zone (including, but not limited to, planting, screen walls, project identification signs, and drainage and wetlands areas within the property).
- The perpetual maintenance of the landscape strips adjacent to the Sierra Crossing subdivision contiguous to Foothills Boulevard and Booth Road, including but not limited to maintenance of the planting, screen walls, and project identification signs.
- The maintenance of the natural border adjoining and contiguous to the westerly border of Sierra Crossing.
- The maintenance of the wetland preserve area.
- The on-going maintenance of the landscape strips adjacent to the Legacy subdivision contiguous to Junction Boulevard, Washington Boulevard and Sawtell Road, including but not limited to maintenance of the planting, screen walls, and project identification signs.
- The maintenance of natural border adjoining and contiguous to the westerly border of the Legacy subdivision.

II. METHOD OF APPORTIONMENT

A. GENERAL

The 1972 Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements, which include the construction, maintenance, and servicing of public lights, landscaping and appurtenant facilities. The 1972 Act further requires that the cost of these improvements be levied according to benefit rather than assessed value:

“The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements.”

The formula used for calculating assessments reflects the composition of the parcels, and the improvements and services provided, to fairly apportion the costs based on estimated benefit to each parcel.

B. DESCRIPTION OF METHOD OF APPORTIONMENT

Pursuant to the Act, the costs of each Zone may be apportioned by any formula or method that fairly distributes the net amount to be assessed, among all assessable parcels in proportion to the estimated special benefits to be received by each such parcel from the improvements. The special benefit formula used for any special benefit assessment should reflect the composition of the parcels, and the improvements and services provided, to fairly apportion the costs based on estimated special benefit to each parcel. All assessable parcels in each Zone receive a direct special benefit from the services and improvements provided by the District.

Each parcel within this District has been assigned an Equivalent Benefit Unit (EBU), which reflects each parcel's estimated special benefit from the improvements as compared to other parcels within each Zone of the District. The levy amount is spread evenly to each assessable parcel in the District, on a per benefit unit (per parcel) method.

For each Zone, the total eligible special benefit expenses (“Balance to Levy”), is divided by the total EBUs of all parcels. The result of this calculation establishes an assessment rate per EBU (“Levy per EBU” or “Assessment Rate”) to be applied to each Zone.

The following formulas shall be applied to each Zone to calculate the assessment for each parcel:

Zone A

Total number of residential lots based on final filed maps, divided into the total annual estimated costs of Zone A.

Zone B

Total number of residential lots based on final filed maps, divided into the total annual estimated costs of Zone B.

The Maximum Annual Assessment is not to exceed \$100.00 per parcel for Zone A and \$147.20 per parcel for Zone B.

C. PROPOSITION 218 BENEFIT ANALYSIS

In conjunction with the provisions of the 1972 Act, the California Constitution Article XIID addresses several key criteria for the levy of assessments regarding the Dunmore Junction subdivision Legacy subdivision annexations to the District, notably:

Article XIID Section 2d defines District as follows:

“District means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service”;

Article XIID Section 2i defines Special Benefit as follows:

“Special benefit” means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute “special benefit.”

Article XIID Section 4a defines proportional special benefit assessments as follows:

“An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.”

Each of the proposed improvements, the associated costs and assessments have been carefully reviewed, identified and allocated based on special benefit pursuant to the provisions of the Constitution and 1972 Act. All improvements associated with this District have been identified as necessary, required and/or desired for the orderly development of the properties within the District to their full potential, consistent with the proposed development plans and applicable portions of the City General Plan and the Northwest Roseville Specific Plan. As such, the improvements for which each property shall be assessed would be necessary and required of individual property owners for the development of such properties and the ongoing operation, servicing and maintenance of these improvements would be the financial obligation of those properties. Therefore, the improvements and the annual costs of ensuring the maintenance and operation of the improvements are of direct and special benefit to the properties.

The method of apportionment (method of assessment) is based on the premise that each assessed parcel within the District receives benefit from the improvements. Well-maintained landscaping and recreational facilities in close proximity to those properties enhances the desirability of those properties.

The special benefits associated with the landscape improvements and associated appurtenants are specifically:

- Enhanced desirability of properties through association with the improvements.
- Improved aesthetic appeal of properties providing a positive representation of the area and properties.
- Enhanced adaptation of the urban environment within the natural environment from adequate green space and landscaping.
- Environmental enhancement through improved erosion resistance, dust and debris control, and fire prevention.
- Increased sense of pride in ownership of property within the District resulting from well-maintained improvements associated with the properties.
- Enhanced quality of life through well-maintained green belts, landscaped areas and recreational facilities.
- Reduced criminal activity and property-related crimes (especially vandalism) against properties in the District through well-maintained surroundings and amenities including abatement of graffiti.
- Enhanced environmental quality of the parcels by moderating temperatures, providing oxygenation and attenuating noise.

All of the preceding special benefits allow the property to be developed for the enjoyment of the property owners and contribute to a specific enhancement and desirability of each of the assessed parcels within the District.

The improvements are for the special benefit, enhancement and use of properties within the District and the Northwest Roseville Specific Plan Area. Although the improvements include public easements, rights-of-way and other amenities available or visible to the public at large, it has been determined that the additional improvements installed in connection with this development and those installed as part of the overall Northwest Roseville Specific Plan, are only necessary for the development of properties within the specific plan area and were not required nor necessarily desired by any properties or developments outside the Northwest Roseville Specific Plan Area. Therefore, this District being part of that plan, receives similar and proportional special benefits from both the improvements installed in connection with developing properties in this District as well as existing and future shared amenities within the District. Any public access or use of the improvements by others is incidental and there is no measurable general benefit to properties outside the specific plan area or to the public at large.

III. DISTRICT BUDGET

A. 2020/21 BUDGET

DESCRIPTION	Zone A ⁽¹⁾ Fund 2008	Zone B ⁽²⁾ Fund 2009
<u>DIRECT COSTS</u>		
Contract Maintenance - Landscaping	\$208,117.00	\$11,252.00
Repair & Maintenance - Landscaping/Parks	67,000.00	1,000.00
Utilities	160,000.00	4,900.00
Stormwater Management/Drainage (1130-4801-10001)	0.00	1,278.00
Rehab Reserve Project - Landscape Rehab	<u>35,000.00</u>	<u>0.00</u>
Total Direct Costs	\$470,117.00	\$18,430.00
<u>ADMINISTRATION COSTS</u>		
City Administration	\$9,244.00	\$383.00
Contract Administration - Park's Dept	33,000.00	1,500.00
County Auditor Fees	4,622.00	191.36
Consulting & Professional Services	7,947.00	329.00
Consultant Incidental Expenses	769.82	30.18
Public Hearing Publishing Costs	<u>695.00</u>	<u>400.00</u>
Total Administrative Costs	\$56,277.82	\$2,833.54
Total Direct and Administration Costs	\$526,394.82	\$21,263.54
<u>BUDGET ADJUSTMENTS</u>		
Replenishment/(Use) of Operating Reserve	(\$29,194.82)	(\$2,127.54)
Contribution for /(Use of) Rehab Reserve	(35,000.00)	0.00
Rounding Adjustment		
Total Adjustments	(\$64,194.82)	(\$2,127.54)
BALANCE TO LEVY	\$462,200.00	\$19,136.00

(1) The Dunmore Junction Subdivision was annexed into Zone A.

(2) The Legacy Subdivision was annexed into Zone B.

Fund balance information of each Zone is reported in Section C on the following page.

B. 2020/21 ASSESSMENT RATES

DESCRIPTION	Zone A Fund 2008	Zone B Fund 2009
<u>FY 2020/21 APPLIED ASSESSMENT RATES</u>		
Total Assessable Parcels	4,622	130
Applied Assessment Rates per Parcel	\$100.00	\$147.20
Maximum Assessment Rates per Parcel	\$100.00	\$147.20
Potential Maximum Assessment Per Zone	\$462,200	\$19,136

C. 2020/21 FUND BALANCE INFORMATION

DESCRIPTION	Zone A Fund 2008	Zone B Fund 2009
<u>OPERATING RESERVE</u>		
Beginning Operating Reserve Balance 7-1-2020 (est.)	\$288,056.28	\$9,660.62
add: Replenish from FY 20/21 Levy		
less: Use for FY 20/21 Expenses	(29,194.82)	(2,127.54)
Transfer from/(to) the Rehab Reserve	(23,802.96)	5.46
Ending Operating Reserve Balance 6-30-2021 (est.)	\$235,058.50	\$7,538.54
<u>REHABILITATION RESERVE</u>		
Beginning Rehab Reserve Balance 7-1-2020 (est.)	\$212,326.81	\$5.46
add: Collect from FY 20/21 Levy		
less: Use for FY 20/21 Rehab Projects	(35,000.00)	0.00
Transfer from/(to) the Operating Reserve	23,802.96	(5.46)
Ending Rehab Reserve Balance 6-30-2021 (est.)	\$201,129.77	\$0.00

D. DESCRIPTION OF BUDGET ITEMS

BUDGET:

DIRECT COSTS

Contract Maintenance - Landscaping - Includes all regularly scheduled contract labor, materials, supplies and equipment required to properly maintain and ensure the satisfactory condition or maintenance of all landscaping corridors, street medians, entryways, irrigation and related drainage systems as well as maintenance of appurtenant facilities (the "improvements").

Repair & Maintenance – Landscaping / Parks - This line item includes repairs that are generally unforeseen and not normally included in the annual maintenance contract costs. This may include repair of damaged amenities due to vandalism,

storms, etc. If zero, this line item may not be shown in the budget.

Utilities - The furnishing of water and electricity required for the operation and maintenance of the improvements.

Stormwater Management / Drainage - This line item includes costs to properly maintain certain drainage and / or wetlands areas within the District. If zero, this line item may not be shown in the budget.

Rehab Reserve Project Expenditures – Expected costs for installation, replacement or planned upgrades of District improvements for the current year that were previously funded or accumulated in the Rehabilitation Reserve. The Rehabilitation Reserve is used to accumulate funds for costs associated with the future rehabilitation or replacement of District improvements that cannot be conveniently raised from a single year's assessment. If zero, this line item may not be shown in the budget.

ADMINISTRATION COSTS

City Administration – Estimated costs incurred by the City Finance Department and other Departments in preparing the annual budget for the Engineer's Report, together with other financial information required to determine the annual assessment. These costs would also include the preparation, posting and publishing of public notices required for City Council action relating to the District, as well as costs to perform legal review of documents.

Contract Administration – Park's Dept – Estimated Costs of Park and Recreation Department staff to coordinate and oversee the maintenance contracts and overall repair and maintenance of the District. This amount also includes the cost of the Department's estimates and analysis of certain budget items, estimated costs and useful lives of certain District Improvements.

County Auditor Fees - A fee of 1% of the total levy amount that is charged to the District by the County for placing assessments on property tax bills.

Consulting and Professional Services – Includes the costs and expenses of contracting with various professionals to provide legal, engineering and district administration services directly related to the District, including the calculation of the annual assessment amounts, the preparation of the Engineer's Report and incidental expenses of consultant.

Public Hearing Publishing Costs – Includes the out of pocket costs to publish public notices required for City Council action relating to the District.

Total Direct and Administration Costs – The total expected costs of the District.

BUDGET ADJUSTMENTS

Replenishment/(Use) of Operating Reserve – A “Replenishment” increases the levy in order to replenish the Operating Reserve. On the other hand, a “Use” of the Operating Reserve decreases the levy by drawing funds from the Operating Reserve for current year expenditures. If zero, this line item may not be shown in the budget. Further information regarding the function of the Operating Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Contribution for /(Use of) Rehab Reserve — A “Contribution” increases the levy in order to generate funding for the Rehabilitation Reserve. This reserve allows for the accumulation of funds for the possible rehabilitation projects or replacements in future years. On the other hand, a “Use of” of the Rehabilitation Reserve provides current year funding of rehabilitation projects or replacements from available funds within the Rehabilitation Reserve. If zero, this line item may not be shown in the budget. Further information regarding the function of the Rehabilitation Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Rounding Adjustment – The necessary rounding adjustment(s) due to limitations of the County property tax system that requires even penny levy amounts to be placed on the secured tax roll.

BALANCE TO LEVY - This is the total amount to be levied and collected through assessments for the current fiscal year for each zone. The Balance to Levy represents the sum of the total District costs together with any applicable adjustments to the budget as described above.

ASSESSMENT RATES:

Total Assessable EBUs - The total number of expected Equivalent Benefit Units for each of the District’s Zones.

Applied Assessment Rates per EBU - The assessment rates to be applied to the parcels lying within the respective Zone of the District for the fiscal year shown.

Maximum Assessment Rates per EBU - The maximum assessment rates for the parcels lying within the respective Zone of the District for the fiscal year shown.

Potential Maximum Assessment Per Zone – The total amount that can be assessed against all parcels within each Zone for the current fiscal year based upon the expected number of EBUs to be assessed.

FUND BALANCE INFORMATION:

OPERATING RESERVE

Beginning Operating Reserve Balance 7-1-2020 (est.) - The anticipated beginning balance of cash and receivables net of any unpaid prior year obligations for each Zone. These beginning balances shall be used to fund each Zone's expenditures from July 1, 2020 to December 31, 2020, as the Operating Reserve is required to compensate for the approximate six-month delay between the start of the District's fiscal year and the receipt of the collections from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

Replenish from FY 20/21 Levy – This amount is added to the levy in order to replenish the Operating Reserve. Due to the six-month delay from the District's receipt of assessment collections, the Operating Reserve balance shall be sufficiently funded to provide for expenditures from the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Expenses – The amount of the Operating Reserve to be used to fund FY 20/21 expenses. Portions of the Operating Reserve may be slated for current year expenditures in order to reduce the Ending Operating Reserve Balance to an amount no greater than the expected District costs for the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Rehab Reserve — The amount of Operating Reserve monies to be transferred to or from the Rehabilitation Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Operating Reserve Balance 6-30-2021 (est.) - This amount represents the anticipated Operating Reserve balance/(deficit) for each Zone as of June 30, 2021. The size of each Zone's Operating Reserve is limited by Streets and Highways Code 22569 which states that an Operating Reserve shall not exceed the estimated costs of maintenance, service and incidental expenses from the first day of the fiscal year (July 1) to the date that the Agency expects to receive the first apportionment of collections from the County, which is estimated to be December 31. Therefore, each Zone may retain an Operating Reserve amounting to the District's first six-months of expenses in order to meet ongoing obligations until the first collections are received from the County. All Rehabilitation Reserve

balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

REHABILITATION RESERVE

Beginning Rehab Reserve Balance 7-1-2020 (est.) — The projected balance of funds in the Rehabilitation Reserve as of July 1, 2020. Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

Collect from FY 20/21 Levy — This amount is added to the levy to accumulate funding of future year rehabilitation projects, replacements, restorations or upgrades of District improvements. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Rehab Projects – The amount of Rehabilitation Reserve monies expected to be transferred out of the Rehabilitation Reserve to fund the costs of installation, replacement or planned upgrades of District improvements for the current year. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Operating Reserve — The amount of Rehabilitation Reserve monies to be transferred to or from the Operating Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Rehab Reserve Balance 6-30-2021 (est.) - The projected balance of funds in the Rehabilitation Reserve as of June 30, 2021. These funds shall be used to provide for future year rehabilitation projects, replacements, restorations or upgrades of District improvements which cannot be conveniently raised from a single year's assessment.

Should the District have no Rehabilitation Reserve balances or related activity, no Rehabilitation Reserve information shall be presented in the Report.

E. REHABILITATION RESERVE – CAPITAL IMPROVEMENT PLAN

Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

For each Zone showing a projected ending Rehabilitation Reserve balance or projected FY 2020/21 expenditures for Rehabilitation Reserve Project, a five-year Capital Improvement Plan showing the projected expenditures related to the rehabilitation, restoration and/or replacement of District improvements and other allowable costs, is shown below.

Zone A.

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Repair, replace and/or refurbish fencing improvements	\$0	\$20,000	\$20,000	\$0	\$0	\$40,000
Replace, repair, renovate and/or refurbish plants, landscape & related materials	10,000	10,000	15,000	20,000	20,000	\$65,000
Grid tree pruning, removal and replacement of declining trees	25,000	25,000	25,000	25,000	25,000	\$100,000
Total Zone A Expenditures	\$35,000	\$55,000	\$60,000	\$45,000	\$45,000	\$205,000

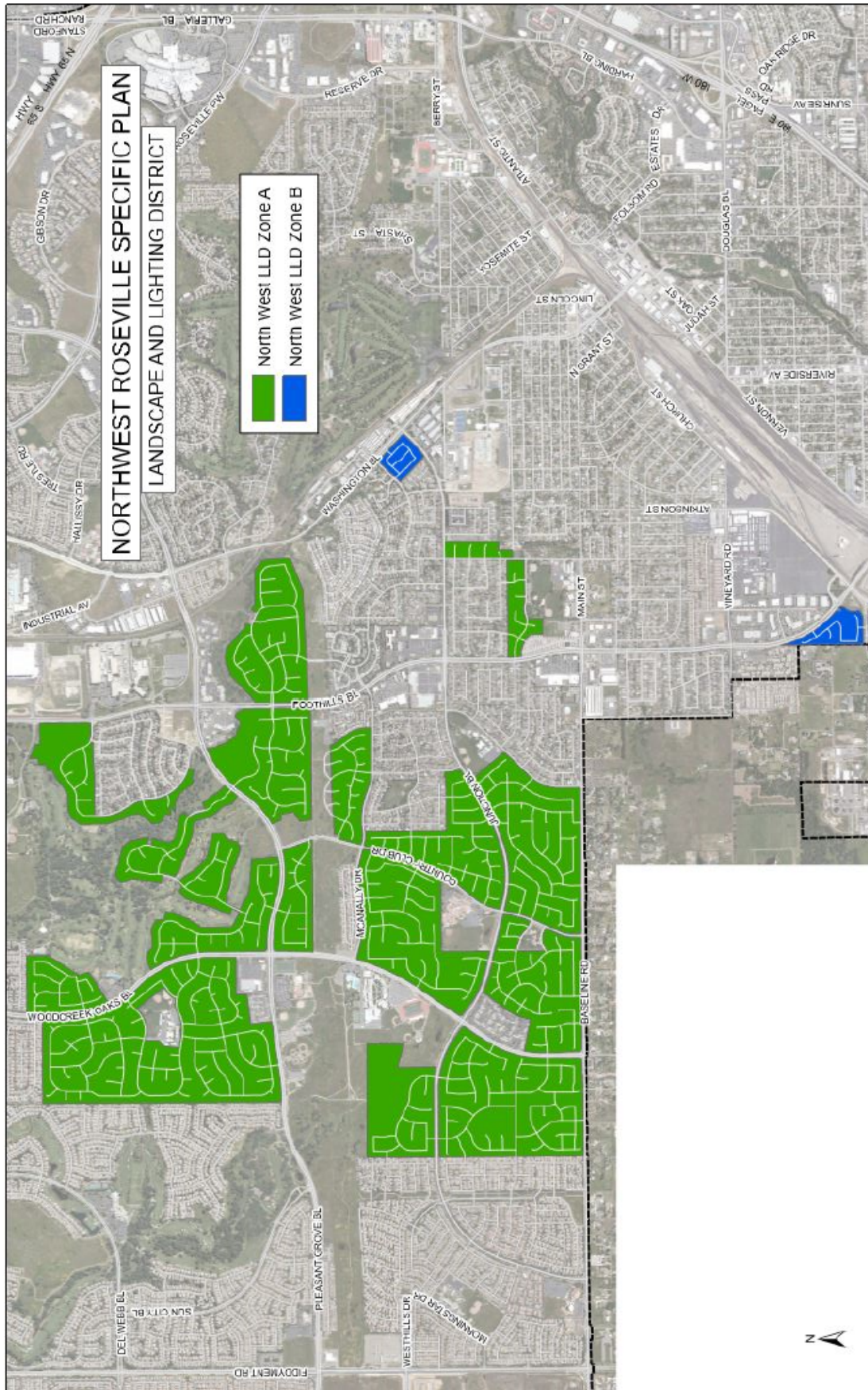
Zone B. The Zone's projected reserves are currently not sufficient to fund capital improvement expenditures.

From time to time, funds held in a Rehabilitation Reserve may be needed to respond to changing needs due to the condition of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and / or operation of the improvements.

APPENDIX A – DISTRICT BOUNDARY MAP

The boundary map of the District and Zones have previously been submitted to the Clerk of the City in the format required under the Act and are, by reference, hereby made part of this Report. The boundary maps are available for inspection at the office of the City Clerk during normal business hours.

For general reference purposes, a rendering of the District's Boundaries is represented herein.



APPENDIX B — 2020/21 ASSESSMENT ROLL

Parcel identification, for each lot or parcel within the District, shall be the parcel as shown on the Placer County Assessor's map for the year in which this Report is prepared.

Due to the size of the Assessment Roll, a listing of parcels to be assessed within this District, along with the proposed assessment amounts, shall be submitted to the City Clerk, under a separate cover, and by reference is made part of this Report.

Non-assessable lots or parcels may include areas of public streets and other roadways (typically not assigned an APN by the County); dedicated public easements, open space areas and rights-of-ways including public greenbelts and parkways; utility rights-of-ways; common areas; landlocked parcels, small parcels vacated by the County, bifurcated lots, and any other property that cannot be developed. These types of parcels are considered to receive little or no benefit from the improvements and are therefore exempted from assessment.

At the conclusion of the public hearing for the District and the proposed assessments, approval of the Report (as submitted or as modified) confirms the method of apportionment and the assessment rate to be levied against each eligible parcel and thereby constitutes the approved levy and collection of assessments for FY 2020/21. The listing of parcels and the amount of assessment to be levied shall be submitted to the County Auditor/Controller and included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved in this Report. Therefore, if a single parcel has changed to multiple parcels, the assessment amount applied to each of the new parcels shall be recalculated and applied according to the approved method of apportionment and assessment rate rather than a proportionate share of the original assessment.

City of Roseville
Northwest Roseville Landscaping & Lighting District
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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
473-160-001-000	B	147.20	147.20	1	LOT 1 SIERRA CROSSINGS T-27
473-160-004-000	B	147.20	147.20	1	LOT 58 SIERRA CROSSINGS T-27
473-170-001-000	B	147.20	147.20	1	LOT 2 SIERRA CROSSINGS T-27
473-160-008-000	B	147.20	147.20	1	LOT 57 & POR LOT 56 SIERRA CROSSINGS T-27
473-160-005-000	B	147.20	147.20	1	LOT 59 SIERRA CROSSINGS T-27
473-160-007-000	B	147.20	147.20	1	POR LOT 56 SIERRA CROSSINGS T-27
473-170-008-000	B	147.20	147.20	1	LOT 9 SIERRA CROSSINGS T-27
473-170-006-000	B	147.20	147.20	1	LOT 7 SIERRA CROSSINGS T-27
473-170-004-000	B	147.20	147.20	1	LOT 5 SIERRA CROSSINGS T-27
473-170-002-000	B	147.20	147.20	1	LOT 3 SIERRA CROSSINGS T-27
473-170-009-000	B	147.20	147.20	1	LOT 10 SIERRA CROSSINGS T-27
473-170-007-000	B	147.20	147.20	1	LOT 8 SIERRA CROSSINGS T-27
473-170-005-000	B	147.20	147.20	1	LOT 6 SIERRA CROSSINGS T-27
473-170-003-000	B	147.20	147.20	1	LOT 4 SIERRA CROSSINGS T-27
473-170-018-000	B	147.20	147.20	1	LOT 29 SIERRA CROSSINGS T-27
473-170-024-000	B	147.20	147.20	1	LOT 35 SIERRA CROSSINGS T-27
473-170-016-000	B	147.20	147.20	1	LOT 17 SIERRA CROSSINGS T-27
473-170-022-000	B	147.20	147.20	1	LOT 33 SIERRA CROSSINGS T-27
473-170-014-000	B	147.20	147.20	1	LOT 15 SIERRA CROSSINGS T-27
473-170-019-000	B	147.20	147.20	1	LOT 30 SIERRA CROSSINGS T-27
473-170-020-000	B	147.20	147.20	1	LOT 31 SIERRA CROSSINGS T-27
473-170-012-000	B	147.20	147.20	1	LOT 13 SIERRA CROSSINGS T-27
473-170-017-000	B	147.20	147.20	1	LOT 28 SIERRA CROSSINGS T-27
473-170-010-000	B	147.20	147.20	1	LOT 11 SIERRA CROSSINGS T-27
473-170-015-000	B	147.20	147.20	1	LOT 16 SIERRA CROSSINGS T-27
473-170-025-000	B	147.20	147.20	1	LOT 36 SIERRA CROSSINGS T-27
473-170-013-000	B	147.20	147.20	1	LOT 14 SIERRA CROSSINGS T-27
473-170-023-000	B	147.20	147.20	1	LOT 34 SIERRA CROSSINGS T-27
473-170-011-000	B	147.20	147.20	1	LOT 12 SIERRA CROSSINGS T-27
473-170-021-000	B	147.20	147.20	1	LOT 32 SIERRA CROSSINGS T-27
473-170-026-000	B	147.20	147.20	1	LOT 37 SIERRA CROSSINGS T-27
473-170-044-000	B	147.20	147.20	1	LOT 55 SIERRA CROSSINGS T-27
473-170-036-000	B	147.20	147.20	1	LOT 47 SIERRA CROSSINGS T-27
473-180-005-000	B	147.20	147.20	1	LOT 22 SIERRA CROSSINGS T-27
475-060-003-000	A	100.00	100.00	1	LOT 15 PARKLAND ESTATES MOR BK Q PG 88
473-170-042-000	B	147.20	147.20	1	LOT 53 SIERRA CROSSINGS T-27
473-170-034-000	B	147.20	147.20	1	LOT 45 SIERRA CROSSINGS T-27
473-180-003-000	B	147.20	147.20	1	LOT 20 SIERRA CROSSINGS T-27
473-170-040-000	B	147.20	147.20	1	LOT 51 SIERRA CROSSINGS T-27
473-170-029-000	B	147.20	147.20	1	LOT 40 SIERRA CROSSINGS T-27
473-170-032-000	B	147.20	147.20	1	LOT 43 SIERRA CROSSINGS T-27
473-180-010-000	B	147.20	147.20	1	LOT 27 SIERRA CROSSINGS T-27
473-170-039-000	B	147.20	147.20	1	LOT 50 SIERRA CROSSINGS T-27
473-180-009-000	B	147.20	147.20	1	LOT 26 SIERRA CROSSINGS T-27
473-170-037-000	B	147.20	147.20	1	LOT 48 SIERRA CROSSINGS T-27
473-170-030-000	B	147.20	147.20	1	LOT 41 SIERRA CROSSINGS T-27
473-180-007-000	B	147.20	147.20	1	LOT 24 SIERRA CROSSINGS T-27
473-170-035-000	B	147.20	147.20	1	LOT 46 SIERRA CROSSINGS T-27
473-180-004-000	B	147.20	147.20	1	LOT 21 SIERRA CROSSINGS T-27
475-060-002-000	A	100.00	100.00	1	LOT 13 PARKLAND ESTATES MOR BK Q PG 88
473-170-027-000	B	147.20	147.20	1	LOT 38 SIERRA CROSSINGS T-27
473-170-033-000	B	147.20	147.20	1	LOT 44 SIERRA CROSSINGS T-27
473-180-002-000	B	147.20	147.20	1	LOT 19 SIERRA CROSSINGS T-27
473-170-043-000	B	147.20	147.20	1	LOT 54 SIERRA CROSSINGS T-27
473-170-031-000	B	147.20	147.20	1	LOT 42 SIERRA CROSSINGS T-27
473-180-008-000	B	147.20	147.20	1	LOT 25 SIERRA CROSSINGS T-27
473-180-001-000	B	147.20	147.20	1	LOT 18 SIERRA CROSSINGS T-27
473-170-041-000	B	147.20	147.20	1	LOT 52 SIERRA CROSSINGS T-27
473-170-028-000	B	147.20	147.20	1	LOT 39 SIERRA CROSSINGS T-27
473-180-006-000	B	147.20	147.20	1	LOT 23 SIERRA CROSSINGS T-27
475-060-001-000	A	100.00	100.00	1	LOT 12 PARKLAND ESTATES MOR BK Q PG 88
473-170-038-000	B	147.20	147.20	1	LOT 49 SIERRA CROSSINGS T-27
475-060-011-000	A	100.00	100.00	1	LOT 22 PARKLAND ESTATES MOR BK Q PG 88
475-060-028-000	A	100.00	100.00	1	LOT 39 PARKLAND ESTATES MOR BK Q PG 88
475-060-046-000	A	100.00	100.00	1	L57 PARKLAND ESTATES Q-88

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-100-008-000	A	100.00	100.00	1	L 7 AUTUMN GLEN UNIT 1 MOR Q-16
475-060-038-000	A	100.00	100.00	1	LOT 49 PARKLAND ESTATES MOR BK Q PG 88
475-060-056-000	A	100.00	100.00	1	POR L46 PARKLAND ESTATES Q-88
475-060-021-000	A	100.00	100.00	1	LOT 32 PARKLAND ESTATES MOR BK Q PG 88
475-060-031-000	A	100.00	100.00	1	LOT 42 PARKLAND ESTATES MOR BK Q PG 88
476-100-006-000	A	100.00	100.00	1	L 5 AUTUMN GLEN UNIT 1
475-060-013-000	A	100.00	100.00	1	LOT 24 PARKLAND ESTATES MOR BK Q PG 88
475-060-048-000	A	100.00	100.00	1	L59 PARKLAND ESTATES Q-88
475-060-023-000	A	100.00	100.00	1	LOT 34 PARKLAND ESTATES MOR BK Q PG 88
475-060-041-000	A	100.00	100.00	1	LOT 52 PARKLAND ESTATES MOR BK Q PG 88
475-060-005-000	A	100.00	100.00	1	LOT 16 PARKLAND ESTATES MOR BK Q PG 88
476-100-016-000	A	100.00	100.00	1	LOT 34 AUTUMN GLEN UNIT 2 MOR Q-23
475-060-058-000	A	100.00	100.00	1	L54&POR 45&46 PARKLAND EST Q88
476-100-004-000	A	100.00	100.00	1	LOT 3 AUTUMN GLEN UNIT #1 MOR Q-16
475-060-051-000	A	100.00	100.00	1	L62 PARKLAND ESTATES Q-88
475-060-015-000	A	100.00	100.00	1	LOT 26 PARKLAND ESTATES MOR BK Q PG 88
476-100-014-000	A	100.00	100.00	1	LOT 32 AUTUMN GLEN UNIT 2 MOR Q-23
475-060-025-000	A	100.00	100.00	1	LOT 36 PARKLAND ESTATES MOR BK Q PG 88
475-060-007-000	A	100.00	100.00	1	LOT 18 PARKLAND ESTATES MOR BK Q PG 88
475-060-017-000	A	100.00	100.00	1	LOT 28 PARKLAND ESTATES MOR BK Q PG 88
476-100-002-000	A	100.00	100.00	1	L 1 AUTUMN GLEN UNIT 1
475-060-053-000	A	100.00	100.00	1	L64 PARKLAND ESTATES Q-88
475-060-010-000	A	100.00	100.00	1	LOT 21 PARKLAND ESTATES MOR BK Q PG 88
475-060-027-000	A	100.00	100.00	1	LOT 38 PARKLAND ESTATES MOR BK Q PG 88
475-060-009-000	A	100.00	100.00	1	LOT 20 PARKLAND ESTATES MOR BK Q PG 88
475-060-020-000	A	100.00	100.00	1	LOT 31 PARKLAND ESTATES MOR BK Q PG 88
475-060-055-000	A	100.00	100.00	1	POR L45 PARKLAND ESTATES Q-88
475-060-037-000	A	100.00	100.00	1	LOT 48 PARKLAND ESTATES MOR BK Q PG 88
475-060-019-000	A	100.00	100.00	1	LOT 30 PARKLAND ESTATES MOR BK Q PG 88
476-100-017-000	A	100.00	100.00	1	LOT 35 AUTUMN GLEN UNIT 2 MOR Q-23
475-060-030-000	A	100.00	100.00	1	LOT 41 PARKLAND ESTATES MOR BK Q PG 88
476-100-010-000	A	100.00	100.00	1	L 9 AUTUMN GLEN UNIT 1
475-060-047-000	A	100.00	100.00	1	L58 PARKLAND ESTATES Q-88
476-100-009-000	A	100.00	100.00	1	L 8 AUTUMN GLEN UNIT 1
475-060-012-000	A	100.00	100.00	1	LOT 23 PARKLAND ESTATES MOR BK Q PG 88
475-060-029-000	A	100.00	100.00	1	LOT 40 PARKLAND ESTATES MOR BK Q PG 88
476-100-015-000	A	100.00	100.00	1	LOT 33 AUTUMN GLEN UNIT 2 MOR Q-23
475-060-057-000	A	100.00	100.00	1	L53 & POR 46 PARKLAND EST Q-88
475-060-004-000	A	100.00	100.00	1	LOT 14 PARKLAND ESTATES MOR BK Q PG 88
475-060-040-000	A	100.00	100.00	1	LOT 51 PARKLAND ESTATES MOR BK Q PG 88
475-060-022-000	A	100.00	100.00	1	LOT 33 PARKLAND ESTATES MOR PG Q PG 88
475-060-039-000	A	100.00	100.00	1	LOT 50 PARKLAND ESTATES MOR BK Q PG 88
475-060-014-000	A	100.00	100.00	1	LOT 25 PARKLAND ESTATES MOR BK Q PG 88
475-060-050-000	A	100.00	100.00	1	L61 PARKLAND ESTATES Q-88
476-100-007-000	A	100.00	100.00	1	L 6 AUTUMN GLEN UNIT 1
475-060-032-000	A	100.00	100.00	1	LOT 43 PARKLAND ESTATES MOR BK Q PG 88
475-060-049-000	A	100.00	100.00	1	L60 PARKLAND ESTATES Q-88
475-060-006-000	A	100.00	100.00	1	LOT 17 PARKLAND ESTATES MOR BK Q PG 88
475-060-060-000	A	100.00	100.00	1	L56 & POR44&45 PARKLAND EST Q88
475-060-024-000	A	100.00	100.00	1	LOT 35 PARKLAND ESTATES MOR BK Q PG 88
475-060-059-000	A	100.00	100.00	1	L55 & POR 45 PARKLAND EST Q-88
476-100-005-000	A	100.00	100.00	1	L 4 AUTUMN GLEN UNIT 1
475-060-016-000	A	100.00	100.00	1	LOT 27 PARKLAND ESTATES MOR BK Q PG 88
475-060-052-000	A	100.00	100.00	1	L63 PARKLAND ESTATES Q-88
476-100-011-000	A	100.00	100.00	1	L 10 AUTUMN GLEN UNIT 1
475-060-008-000	A	100.00	100.00	1	LOT 19 PARKLAND ESTATES MOR BK Q PG 88
475-060-026-000	A	100.00	100.00	1	LOT 37 PARKLAND ESTATES MOR BK Q PG 88
475-060-018-000	A	100.00	100.00	1	LOT 29 PARKLAND ESTATES MOR BK Q PG 88
475-060-054-000	A	100.00	100.00	1	POR PCL A LOT 44 PARKLAND ESTATES MOR Q-88
476-100-003-000	A	100.00	100.00	1	L 2 AUTUMN GLEN UNIT 1
475-060-036-000	A	100.00	100.00	1	LOT 47 PARKLAND ESTATES MOR BK Q PG 88
476-110-021-000	A	100.00	100.00	1	L 30 AUTUMN GLEN UNIT 2 Q-23
476-110-003-000	A	100.00	100.00	1	L 12 AUTUMN GLEN UNIT 1
476-110-038-000	A	100.00	100.00	1	LOT 79 AUTUMN GLEN UNIT 3 MOR Q24
476-110-056-000	A	100.00	100.00	1	LOT 120 AUTUMN GLEN UNIT 3 MOR Q-24

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-100-062-000	A	100.00	100.00	1	LOT 98 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-026-000	A	100.00	100.00	1	LOT 44 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-044-000	A	100.00	100.00	1	LOT 62 AUTUMN GLEN UNIT 2 Q-23
476-120-007-000	A	100.00	100.00	1	L 7 SILVERADO OAKS #4 Q-20
476-110-028-000	A	100.00	100.00	1	L 69 AUTUMN GLEN UNIT 2 Q-23
476-110-046-000	A	100.00	100.00	1	LOT 110 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-064-000	A	100.00	100.00	1	LOT 128 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-018-000	A	100.00	100.00	1	LOT 36 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-036-000	A	100.00	100.00	1	LOT 54 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-054-000	A	100.00	100.00	1	LOT 90 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-011-000	A	100.00	100.00	1	L 20 AUTUMN GLEN UNIT 1
476-110-023-000	A	100.00	100.00	1	LOT 64 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-049-000	A	100.00	100.00	1	L 85 AUTUMN GLEN UNIT 3 Q-24
476-100-067-000	A	100.00	100.00	1	LOT 103 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-005-000	A	100.00	100.00	1	L 14 AUTUMN GLEN UNIT 1
476-110-048-000	A	100.00	100.00	1	LOT 112 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-024-000	A	100.00	100.00	1	LOT 42 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-042-000	A	100.00	100.00	1	LOT 60 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-060-000	A	100.00	100.00	1	LOT 96 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-041-000	A	100.00	100.00	1	LOT 105 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-013-000	A	100.00	100.00	1	LOT 22 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-059-000	A	100.00	100.00	1	LOT 95 AUTUMN GLEN UNIT 3 MOR Q-24
476-120-009-000	A	100.00	100.00	1	L 9 SILVERADO OAKS #4 Q-20
476-110-066-000	A	100.00	100.00	1	LOT 130 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-034-000	A	100.00	100.00	1	LOT 52 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-052-000	A	100.00	100.00	1	LOT 88 AUTUMN GLEN UNIT 3 MOR Q-24
476-120-010-000	A	100.00	100.00	1	L 10 SILVERADO OAKS #4 Q-20
476-110-031-000	A	100.00	100.00	1	LOT 72 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-029-000	A	100.00	100.00	1	LOT 47 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-025-000	A	100.00	100.00	1	LOT 66 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-007-000	A	100.00	100.00	1	L 16 AUTUMN GLEN UNIT 1
476-100-022-000	A	100.00	100.00	1	LOT 40 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-040-000	A	100.00	100.00	1	LOT 58 AUTUMN GLEN UNIT 2 MOR Q-23
476-120-011-000	A	100.00	100.00	1	L 11 SILVERADO OAKS #4 Q-20
476-110-043-000	A	100.00	100.00	1	LOT 107 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-057-000	A	100.00	100.00	1	LOT 93 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-061-000	A	100.00	100.00	1	LOT 125 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-039-000	A	100.00	100.00	1	LOT 57 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-015-000	A	100.00	100.00	1	L 24 AUTUMN GLEN UNIT 2 MOR Q-23
476-120-003-000	A	100.00	100.00	1	L 3 SILVERADO OAKS #4 Q-20
476-110-058-000	A	100.00	100.00	1	LOT 122 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-032-000	A	100.00	100.00	1	LOT 50 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-050-000	A	100.00	100.00	1	LOT 86 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-033-000	A	100.00	100.00	1	LOT 74 AUTUMN GLEN UNIT 3 MOR Q24
476-110-051-000	A	100.00	100.00	1	LOT 115 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-020-000	A	100.00	100.00	1	LOT 38 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-027-000	A	100.00	100.00	1	LOT 68 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-009-000	A	100.00	100.00	1	L 18 AUTUMN GLEN UNIT 1
476-110-045-000	A	100.00	100.00	1	LOT 109 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-063-000	A	100.00	100.00	1	LOT 127 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-019-000	A	100.00	100.00	1	LOT 37 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-037-000	A	100.00	100.00	1	LOT 55 AUTUMN GLEN UNIT 2 Q-23
476-100-055-000	A	100.00	100.00	1	LOT 91 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-010-000	A	100.00	100.00	1	L 19 AUTUMN GLEN UNIT 1
476-100-030-000	A	100.00	100.00	1	LOT 48 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-017-000	A	100.00	100.00	1	LOT 26 AUTUMN GLEN UNIT 2 MOR Q-23
476-120-005-000	A	100.00	100.00	1	L 5 SILVERADO OAKS #4 Q-20
476-110-035-000	A	100.00	100.00	1	LOT 76 AUTUMN GLEN UNIT 3 MOR Q24
476-110-053-000	A	100.00	100.00	1	LOT 117 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-047-000	A	100.00	100.00	1	LOT 83 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-065-000	A	100.00	100.00	1	LOT 101 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-030-000	A	100.00	100.00	1	LOT 71 AUTUMN GLEN UNIT 2 MOR Q-23
476-120-006-000	A	100.00	100.00	1	L 6 SILVERADO OAKS #4 Q-20
476-110-012-000	A	100.00	100.00	1	L 21 AUTUMN GLEN UNIT 1
476-100-053-000	A	100.00	100.00	1	LOT 89 AUTUMN GLEN UNIT 3 MOR Q-24

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-110-047-000	A	100.00	100.00	1	LOT 111 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-065-000	A	100.00	100.00	1	LOT 129 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-035-000	A	100.00	100.00	1	LOT 53 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-002-000	A	100.00	100.00	1	LOT 11 AUTUMN GLEN UNIT 1 MOR Q-16
476-110-019-000	A	100.00	100.00	1	L 28 AUTUMN GLEN UNIT 2 Q-23
476-110-037-000	A	100.00	100.00	1	LOT 78 AUTUMN GLEN UNIT 3 MOR Q24
476-110-055-000	A	100.00	100.00	1	LOT 119 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-027-000	A	100.00	100.00	1	LOT 45 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-045-000	A	100.00	100.00	1	LOT 63 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-063-000	A	100.00	100.00	1	LOT 99 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-020-000	A	100.00	100.00	1	L 29 AUTUMN GLEN UNIT 2 Q-23
476-100-058-000	A	100.00	100.00	1	LOT 94 AUTUMN GLEN UNIT 3 MOR Q-24
476-120-008-000	A	100.00	100.00	1	LOT 8 SILVERADO OAKS #4 Q-20
476-110-014-000	A	100.00	100.00	1	LOT 23 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-039-000	A	100.00	100.00	1	LOT 80 AUTUMN GLEN UNIT 3 MOR Q24
476-100-033-000	A	100.00	100.00	1	LOT 51 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-051-000	A	100.00	100.00	1	LOT 87 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-032-000	A	100.00	100.00	1	L 73 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-050-000	A	100.00	100.00	1	L 114 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-022-000	A	100.00	100.00	1	LOT 31 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-004-000	A	100.00	100.00	1	L 13 AUTUMN GLEN UNIT 1
476-100-068-000	A	100.00	100.00	1	LOT 104 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-043-000	A	100.00	100.00	1	LOT 61 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-057-000	A	100.00	100.00	1	LOT 121 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-029-000	A	100.00	100.00	1	LOT 70 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-061-000	A	100.00	100.00	1	LOT 97 AUTUMN GLEN UNIT 3 MOR Q-24
476-120-001-000	A	100.00	100.00	1	L 1 SILVERADO OAKS #4 Q-20
476-100-025-000	A	100.00	100.00	1	LOT 43 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-040-000	A	100.00	100.00	1	LOT 81 AUTUMN GLEN UNIT 3 MOR Q24
476-120-002-000	A	100.00	100.00	1	L 2 SILVERADO OAKS #4 Q-20
476-110-016-000	A	100.00	100.00	1	LOT 25 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-059-000	A	100.00	100.00	1	LOT 123 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-031-000	A	100.00	100.00	1	LOT 49 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-034-000	A	100.00	100.00	1	LOT 75 AUTUMN GLEN UNIT 3 MOR Q24
476-110-052-000	A	100.00	100.00	1	LOT 116 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-066-000	A	100.00	100.00	1	L 102 AUTUMN GLEN UNIT 3 Q-24
476-110-024-000	A	100.00	100.00	1	LOT 65 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-048-000	A	100.00	100.00	1	LOT 84 AUTUMN GLEN UNIT 3 Q-24
476-110-006-000	A	100.00	100.00	1	L 15 AUTUMN GLEN UNIT 1
476-110-049-000	A	100.00	100.00	1	LOT 113 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-067-000	A	100.00	100.00	1	LOT 131 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-023-000	A	100.00	100.00	1	LOT 41 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-041-000	A	100.00	100.00	1	LOT 59 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-042-000	A	100.00	100.00	1	L 106 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-060-000	A	100.00	100.00	1	LOT 124 AUTUMN GLEN UNIT 3 MOR Q-24
476-120-004-000	A	100.00	100.00	1	L 4 SILVERADO OAKS #4 Q-20
476-110-018-000	A	100.00	100.00	1	L 27 AUTUMN GLEN UNIT 2 Q-23
476-110-036-000	A	100.00	100.00	1	LOT 77 AUTUMN GLEN UNIT 3 MOR Q24
476-110-054-000	A	100.00	100.00	1	LOT 118 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-028-000	A	100.00	100.00	1	LOT 46 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-046-000	A	100.00	100.00	1	L 82 AUTUMN GLEN UNIT 3 Q-24
476-100-064-000	A	100.00	100.00	1	LOT 100 AUTUMN GLEN UNIT 3 MOR Q-24
476-110-026-000	A	100.00	100.00	1	L 67 AUTUMN GLEN UNIT 2 Q-23
476-110-008-000	A	100.00	100.00	1	L 17 AUTUMN GLEN UNIT 1
476-110-044-000	A	100.00	100.00	1	LOT 108 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-021-000	A	100.00	100.00	1	LOT 39 AUTUMN GLEN UNIT 2 MOR Q-23
476-110-062-000	A	100.00	100.00	1	LOT 126 AUTUMN GLEN UNIT 3 MOR Q-24
476-100-038-000	A	100.00	100.00	1	LOT 56 AUTUMN GLEN UNIT 2 MOR Q-23
476-100-056-000	A	100.00	100.00	1	LOT 92 AUTUMN GLEN UNIT 3 MOR Q-24
476-150-029-000	A	100.00	100.00	1	LOT 145 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-046-000	A	100.00	100.00	1	LOT 193 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-051-000	A	100.00	100.00	1	L 51 SILVERADO OAKS #4 Q-20
476-170-028-000	A	100.00	100.00	1	LOT 105 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-020-000	A	100.00	100.00	1	L 94 SILVERADO OAKS #4 Q-20
476-120-033-000	A	100.00	100.00	1	L 33 SILVERADO OAKS #4 Q-20

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-120-015-000	A	100.00	100.00	1	L 15 SILVERADO OAKS #4 Q-20
476-150-004-000	A	100.00	100.00	1	LOT 20 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-022-000	A	100.00	100.00	1	LOT 138 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-002-000	A	100.00	100.00	1	L 76 SILVERADO OAKS #4 Q-20
476-160-016-000	A	100.00	100.00	1	LOT 160 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-058-000	A	100.00	100.00	1	L 58 SILVERADO OAKS #4 Q-20
476-130-073-000	A	100.00	100.00	1	L 147 SILVERADO OAKS #4 Q-20
476-130-055-000	A	100.00	100.00	1	L 129 SILVERADO OAKS #4 Q-20
476-170-011-000	A	100.00	100.00	1	LOT 88 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-034-000	A	100.00	100.00	1	LOT 178 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-037-000	A	100.00	100.00	1	L 111 SILVERADO OAKS #4 Q-20
476-130-019-000	A	100.00	100.00	1	L 93 SILVERADO OAKS #4 Q-20
476-120-025-000	A	100.00	100.00	1	LOT 25 SILVERADO OAKS #4 Q-20
476-120-061-000	A	100.00	100.00	1	L 61 SILVERADO OAKS #4 MOR Q-20
476-170-003-000	A	100.00	100.00	1	LOT 80 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-021-000	A	100.00	100.00	1	LOT 98 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-038-000	A	100.00	100.00	1	LOT 185 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-030-000	A	100.00	100.00	1	L 104 SILVERADO OAKS #4 Q-20
476-120-043-000	A	100.00	100.00	1	L 43 SILVERADO OAKS #4 Q-20
476-150-032-000	A	100.00	100.00	1	LOT 148 SILVERADO OAKS #5 PH B MOR R-27
476-130-012-000	A	100.00	100.00	1	L 86 SILVERADO OAKS #4 Q-20
476-120-068-000	A	100.00	100.00	1	L 68 SILVERADO OAKS #4 Q-20
476-160-006-000	A	100.00	100.00	1	LOT 114 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-014-000	A	100.00	100.00	1	LOT 130 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-024-000	A	100.00	100.00	1	LOT 168 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-065-000	A	100.00	100.00	1	L 139 SILVERADO OAKS #4 Q-20
476-130-047-000	A	100.00	100.00	1	L 121 SILVERADO OAKS #4 Q-20
476-120-035-000	A	100.00	100.00	1	L 35 SILVERADO OAKS #4 Q-20
476-120-017-000	A	100.00	100.00	1	L 17 SILVERADO OAKS #4 Q-20
476-120-071-000	A	100.00	100.00	1	L 71 SILVERADO OAKS #4 Q-20
476-130-029-000	A	100.00	100.00	1	L 103 SILVERADO OAKS #4 Q-20
476-160-001-000	A	100.00	100.00	1	LOT 109 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-031-000	A	100.00	100.00	1	LOT 108 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-013-000	A	100.00	100.00	1	LOT 90 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-020-000	A	100.00	100.00	1	LOT 136 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-053-000	A	100.00	100.00	1	L 53 SILVERADO OAKS #4 Q-20
476-130-022-000	A	100.00	100.00	1	L 96 SILVERADO OAKS #4 Q-20
476-160-018-000	A	100.00	100.00	1	LOT 162 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-040-000	A	100.00	100.00	1	L 114 SILVERADO OAKS #4 Q-20
476-150-002-000	A	100.00	100.00	1	LOT 118 SILVERADO OAKS #5 PH B MOR R-27
476-130-004-000	A	100.00	100.00	1	L 78 SILVERADO OAKS #4 Q-20
476-160-036-000	A	100.00	100.00	1	LOT 196 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-019-000	A	100.00	100.00	1	LOT 135 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-057-000	A	100.00	100.00	1	L 131 SILVERADO OAKS #4 Q-20
476-130-039-000	A	100.00	100.00	1	L 113 SILVERADO OAKS #4 Q-20
476-170-005-000	A	100.00	100.00	1	LOT 82 SILVERADO OAKS #5 PH B MOR R-27
476-170-023-000	A	100.00	100.00	1	LOT 100 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-045-000	A	100.00	100.00	1	L 45 SILVERADO OAKS #4 Q-20
476-120-027-000	A	100.00	100.00	1	LOT 27 SILVERADO OAKS #4 MOR Q-20
476-170-041-000	A	100.00	100.00	1	LOT 188 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-030-000	A	100.00	100.00	1	LOT 146 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-063-000	A	100.00	100.00	1	L 63 SILVERADO OAKS #4 Q-20
476-130-050-000	A	100.00	100.00	1	L 124 SILVERADO OAKS #4 Q-20
476-160-008-000	A	100.00	100.00	1	LOT 116 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-012-000	A	100.00	100.00	1	LOT 128 SILVERADO OAKS #5 PH B MOR R-27
476-130-032-000	A	100.00	100.00	1	L 106 SILVERADO OAKS #4 Q-20
476-160-026-000	A	100.00	100.00	1	LOT 170 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-014-000	A	100.00	100.00	1	L 88 SILVERADO OAKS #4 Q-20
476-170-033-000	A	100.00	100.00	1	LOT 180 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-067-000	A	100.00	100.00	1	L 141 SILVERADO OAKS #4 Q-20
476-170-015-000	A	100.00	100.00	1	LOT 92 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-030-000	A	100.00	100.00	1	LOT 174 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-049-000	A	100.00	100.00	1	L 123 SILVERADO OAKS #4 Q-20
476-120-046-000	A	100.00	100.00	1	L 46 SILVERADO OAKS #4 Q-20
476-120-028-000	A	100.00	100.00	1	L 28 SILVERADO OAKS #4 Q-20

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-120-064-000	A	100.00	100.00	1	L 64 SILVERADO OAKS #4 Q-20
476-130-060-000	A	100.00	100.00	1	LOT 134 SILVERADO OAKS #4 MOR Q-20
476-130-024-000	A	100.00	100.00	1	L 98 SILVERADO OAKS #4 Q-20
476-130-042-000	A	100.00	100.00	1	L 116 SILVERADO OAKS #4 Q-20
476-150-008-000	A	100.00	100.00	1	LOT 124 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-026-000	A	100.00	100.00	1	LOT 142 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-006-000	A	100.00	100.00	1	L 80 SILVERADO OAKS #4 Q-20
476-160-012-000	A	100.00	100.00	1	LOT 156 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-043-000	A	100.00	100.00	1	LOT 190 SILVERADO OAKS #5 PH B MOR R-27
476-160-020-000	A	100.00	100.00	1	LOT 164 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-059-000	A	100.00	100.00	1	L 133 SILVERADO OAKS #4 Q-20
476-120-056-000	A	100.00	100.00	1	L 56 SILVERADO OAKS #4 MOR Q-20
476-120-038-000	A	100.00	100.00	1	L 38 SILVERADO OAKS #4 Q-20
476-120-021-000	A	100.00	100.00	1	L 21 SILVERADO OAKS #4 Q-20
476-150-001-000	A	100.00	100.00	1	LOT 117 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-074-000	A	100.00	100.00	1	LOT 74 SILVERADO OAKS #4 MOR BK Q PG 20
476-170-007-000	A	100.00	100.00	1	LOT 84 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-025-000	A	100.00	100.00	1	LOT 102 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-037-000	A	100.00	100.00	1	LOT 197 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-019-000	A	100.00	100.00	1	LOT 163 SILVERADO OAKS #5 PH B MOR
476-130-070-000	A	100.00	100.00	1	L 144 SILVERADO OAKS #4 Q-20
476-130-052-000	A	100.00	100.00	1	L 126 SILVERADO OAKS #4 Q-20
476-130-034-000	A	100.00	100.00	1	L 108 SILVERADO OAKS #4 Q-20
476-150-036-000	A	100.00	100.00	1	LOT 152 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-016-000	A	100.00	100.00	1	L 90 SILVERADO OAKS #4 Q-20
476-160-002-000	A	100.00	100.00	1	LOT 110 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-018-000	A	100.00	100.00	1	LOT 134 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-069-000	A	100.00	100.00	1	L 143 SILVERADO OAKS #4 Q-20
476-120-066-000	A	100.00	100.00	1	L 66 SILVERADO OAKS #4 Q-20
476-120-031-000	A	100.00	100.00	1	L 31 SILVERADO OAKS #4 Q-20
476-120-013-000	A	100.00	100.00	1	L 13 SILVERADO OAKS #4 Q-20
476-170-035-000	A	100.00	100.00	1	LOT 182 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-017-000	A	100.00	100.00	1	LOT 94 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-024-000	A	100.00	100.00	1	LOT 140 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-062-000	A	100.00	100.00	1	LOT 136 SILVERADO OAKS #4 MOR Q-20
476-130-026-000	A	100.00	100.00	1	L 100 SILVERADO OAKS #4 Q-20
476-160-014-000	A	100.00	100.00	1	LOT 158 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-044-000	A	100.00	100.00	1	L 118 SILVERADO OAKS #4 Q-20
476-150-006-000	A	100.00	100.00	1	LOT 122 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-008-000	A	100.00	100.00	1	L 82 SILVERADO OAKS #4 Q-20
476-160-032-000	A	100.00	100.00	1	LOT 176 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-009-000	A	100.00	100.00	1	LOT 86 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-027-000	A	100.00	100.00	1	LOT 104 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-041-000	A	100.00	100.00	1	L 41 SILVERADO OAKS #4 Q-20
476-160-029-000	A	100.00	100.00	1	LOT 173 SILVERADO OAKS #5 PH MOR BK R PG 27
476-130-001-000	A	100.00	100.00	1	L 75 SILVERADO OAKS #4 Q-20
476-120-023-000	A	100.00	100.00	1	L 23 SILVERADO OAKS #4 Q-20
476-170-045-000	A	100.00	100.00	1	LOT 192 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-034-000	A	100.00	100.00	1	LOT 150 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-072-000	A	100.00	100.00	1	L 146 SILVERADO OAKS #4 Q-20
476-130-054-000	A	100.00	100.00	1	L 128 SILVERADO OAKS #4 Q-20
476-120-048-000	A	100.00	100.00	1	L 48 SILVERADO OAKS #4 Q-20
476-160-004-000	A	100.00	100.00	1	LOT 112 SILVERADO OAKS #5 PH B MOR R-27
476-150-016-000	A	100.00	100.00	1	LOT 132 SILVERADO OAKS UNIT #5 PHASE B MOR R-27
476-130-036-000	A	100.00	100.00	1	L 110 SILVERADO OAKS #4 Q-20
476-170-010-000	A	100.00	100.00	1	LOT 87 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-022-000	A	100.00	100.00	1	LOT 166 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-018-000	A	100.00	100.00	1	L 92 SILVERADO OAKS #4 Q-20
476-120-060-000	A	100.00	100.00	1	L 60 SILVERADO OAKS #4 Q-20
476-170-002-000	A	100.00	100.00	1	LOT 79 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-037-000	A	100.00	100.00	1	LOT 184 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-019-000	A	100.00	100.00	1	LOT 96 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-042-000	A	100.00	100.00	1	L 42 SILVERADO OAKS #4 Q-20
476-130-011-000	A	100.00	100.00	1	L 85 SILVERADO OAKS #4 Q-20
476-120-024-000	A	100.00	100.00	1	L 24 SILVERADO OAKS #4 Q-20

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-150-013-000	A	100.00	100.00	1	LOT 129 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-031-000	A	100.00	100.00	1	LOT 147 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-025-000	A	100.00	100.00	1	LOT 169 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-067-000	A	100.00	100.00	1	L 67 SILVERADO OAKS #4 Q-20
476-160-007-000	A	100.00	100.00	1	LOT 115 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-064-000	A	100.00	100.00	1	L 138 SILVERADO OAKS #4 Q-20
476-120-049-000	A	100.00	100.00	1	L 49 SILVERADO OAKS #4 Q-20
476-170-020-000	A	100.00	100.00	1	LOT 97 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-028-000	A	100.00	100.00	1	L 102 SILVERADO OAKS #4 Q-20
476-130-046-000	A	100.00	100.00	1	LOT 120 SILVERADO OAKS #4 MOR BK Q PG 20
476-120-016-000	A	100.00	100.00	1	L 16 SILVERADO OAKS #4 Q-20
476-120-070-000	A	100.00	100.00	1	L 70 SILVERADO OAKS #4 Q-20
476-170-012-000	A	100.00	100.00	1	LOT 89 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-052-000	A	100.00	100.00	1	L 52 SILVERADO OAKS #4 Q-20
476-120-034-000	A	100.00	100.00	1	L 34 SILVERADO OAKS #4 Q-20
476-130-003-000	A	100.00	100.00	1	L 77 SILVERADO OAKS #4 Q-20
476-130-021-000	A	100.00	100.00	1	L 95 SILVERADO OAKS #4 Q-20
476-150-005-000	A	100.00	100.00	1	LOT 121 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-023-000	A	100.00	100.00	1	LOT 139 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-033-000	A	100.00	100.00	1	LOT 177 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-030-000	A	100.00	100.00	1	LOT 107 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-015-000	A	100.00	100.00	1	LOT 159 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-059-000	A	100.00	100.00	1	L 59 SILVERADO OAKS #4 Q-20
476-130-074-000	A	100.00	100.00	1	L 148 SILVERADO OAKS #4 Q-20
476-130-056-000	A	100.00	100.00	1	L 130 SILVERADO OAKS #4 Q-20
476-130-038-000	A	100.00	100.00	1	LOT 112 SILVERADO OAKS #4 MOR Q-20
476-120-044-000	A	100.00	100.00	1	L 44 SILVERADO OAKS #4 Q-20
476-120-062-000	A	100.00	100.00	1	LOT 62 SILVERADO OAKS #4 MOR Q-20
476-160-010-000	A	100.00	100.00	1	LOT 154 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-004-000	A	100.00	100.00	1	LOT 81 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-026-000	A	100.00	100.00	1	L 26 SILVERADO OAKS #4 Q-20
476-170-040-000	A	100.00	100.00	1	LOT 187 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-022-000	A	100.00	100.00	1	LOT 99 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-011-000	A	100.00	100.00	1	LOT 127 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-031-000	A	100.00	100.00	1	L 105 SILVERADO OAKS #4 Q-20
476-160-027-000	A	100.00	100.00	1	LOT 171 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-013-000	A	100.00	100.00	1	L 87 SILVERADO OAKS #4 Q-20
476-120-069-000	A	100.00	100.00	1	L 69 SILVERADO OAKS #4 Q-20
476-160-009-000	A	100.00	100.00	1	LOT 153 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-029-000	A	100.00	100.00	1	LOT 106 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-028-000	A	100.00	100.00	1	LOT 144 SILVERADO OAKS #5 PH B MOR R-28
476-130-066-000	A	100.00	100.00	1	L 140 SILVERADO OAKS #4 Q-20
476-170-014-000	A	100.00	100.00	1	LOT 91 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-072-000	A	100.00	100.00	1	L 72 SILVERADO OAKS #4 Q-20
476-120-054-000	A	100.00	100.00	1	L 54 SILVERADO OAKS #4 Q-20
476-130-048-000	A	100.00	100.00	1	L 122 SILVERADO OAKS #4 Q-20
476-120-036-000	A	100.00	100.00	1	L 36 SILVERADO OAKS #4 Q-20
476-120-018-000	A	100.00	100.00	1	L 18 SILVERADO OAKS #4 Q-20
476-170-032-000	A	100.00	100.00	1	LOT 179 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-021-000	A	100.00	100.00	1	LOT 137 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-041-000	A	100.00	100.00	1	L 115 SILVERADO OAKS #4 Q-20
476-130-005-000	A	100.00	100.00	1	L 79 SILVERADO OAKS #4 Q-20
476-170-039-000	A	100.00	100.00	1	LOT 186 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-035-000	A	100.00	100.00	1	LOT 195 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-023-000	A	100.00	100.00	1	L 97 SILVERADO OAKS #4 Q-20
476-150-003-000	A	100.00	100.00	1	LOT 119 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-017-000	A	100.00	100.00	1	LOT 161 SILVERADO OAKS #5 PH B MOR R-27
476-130-058-000	A	100.00	100.00	1	LOT 132 SILVERADO OAKS #4 MOR Q-20
476-170-042-000	A	100.00	100.00	1	LOT 189 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-055-000	A	100.00	100.00	1	L 55 SILVERADO OAKS #4 Q-20
476-170-024-000	A	100.00	100.00	1	LOT 101 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-037-000	A	100.00	100.00	1	L 37 SILVERADO OAKS #4 Q-20
476-120-019-000	A	100.00	100.00	1	L 19 SILVERADO OAKS #4 Q-20
476-120-073-000	A	100.00	100.00	1	L 73 SILVERADO OAKS #4 Q-20
476-170-006-000	A	100.00	100.00	1	LOT 83 SILVERADO OAKS #5 PH B MOR BK R PG 27

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-130-051-000	A	100.00	100.00	1	L 125 SILVERADO OAKS #4 Q-20
476-130-033-000	A	100.00	100.00	1	L 107 SILVERADO OAKS #4 Q-20
476-130-015-000	A	100.00	100.00	1	L 89 SILVERADO OAKS #4 Q-20
476-120-020-000	A	100.00	100.00	1	L 20 SILVERADO OAKS #4 Q-20
476-150-017-000	A	100.00	100.00	1	LOT 133 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-035-000	A	100.00	100.00	1	LOT 151 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-021-000	A	100.00	100.00	1	LOT 165 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-003-000	A	100.00	100.00	1	LOT 111 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-034-000	A	100.00	100.00	1	LOT 181 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-068-000	A	100.00	100.00	1	L 142 SILVERADO OAKS #4 Q-20
476-160-011-000	A	100.00	100.00	1	LOT 155 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-047-000	A	100.00	100.00	1	L 47 SILVERADO OAKS #4 Q-20
476-120-012-000	A	100.00	100.00	1	L 12 SILVERADO OAKS #4 Q-20
476-120-065-000	A	100.00	100.00	1	L 65 SILVERADO OAKS #4 Q-20
476-170-016-000	A	100.00	100.00	1	LOT 93 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-010-000	A	100.00	100.00	1	LOT 126 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-160-028-000	A	100.00	100.00	1	LOT 172 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-061-000	A	100.00	100.00	1	L 135 SILVERADO OAKS #4 Q-20
476-120-030-000	A	100.00	100.00	1	L 30 SILVERADO OAKS #4 Q-20
476-130-043-000	A	100.00	100.00	1	L 117 SILVERADO OAKS #4 Q-20
476-130-007-000	A	100.00	100.00	1	L 81 SILVERADO OAKS #4 MOR Q-20
476-130-025-000	A	100.00	100.00	1	L 99 SILVERADO OAKS #4 Q-20
476-150-009-000	A	100.00	100.00	1	LOT 125 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-027-000	A	100.00	100.00	1	LOT 143 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-057-000	A	100.00	100.00	1	L 57 SILVERADO OAKS #4 Q-20
476-120-040-000	A	100.00	100.00	1	L 40 SILVERADO OAKS #4 Q-20
476-170-008-000	A	100.00	100.00	1	LOT 85 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-022-000	A	100.00	100.00	1	L 22 SILVERADO OAKS #4 Q-20
476-170-044-000	A	100.00	100.00	1	LOT 191 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-026-000	A	100.00	100.00	1	LOT 103 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-150-015-000	A	100.00	100.00	1	LOT 131 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-071-000	A	100.00	100.00	1	L 145 SILVERADO OAKS #4 Q-20
476-130-053-000	A	100.00	100.00	1	L 127 SILVERADO OAKS #4 Q-20
476-150-033-000	A	100.00	100.00	1	LOT 149 SILVERADO OAKS #5 PH B MOR R-27
476-130-035-000	A	100.00	100.00	1	L 109 SILVERADO OAKS #4 MOR Q-20
476-160-023-000	A	100.00	100.00	1	LOT 167 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-017-000	A	100.00	100.00	1	L 91 SILVERADO OAKS #4 Q-20
476-120-029-000	A	100.00	100.00	1	L 29 SILVERADO OAKS #4 Q-20
476-160-005-000	A	100.00	100.00	1	LOT 113 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-170-018-000	A	100.00	100.00	1	LOT 95 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-120-050-000	A	100.00	100.00	1	L 50 SILVERADO OAKS #4 Q-20
476-120-032-000	A	100.00	100.00	1	L 32 SILVERADO OAKS #4 Q-20
476-120-014-000	A	100.00	100.00	1	L 14 SILVERADO OAKS #4 Q-20
476-170-036-000	A	100.00	100.00	1	LOT 183 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-010-000	A	100.00	100.00	1	L 84 SILVERADO OAKS #4 Q-20
476-170-001-000	A	100.00	100.00	1	LOT 78 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-063-000	A	100.00	100.00	1	L 137 SILVERADO OAKS #4 Q-20
476-120-039-000	A	100.00	100.00	1	L 39 SILVERADO OAKS #4 Q-20
476-130-045-000	A	100.00	100.00	1	L 119 SILVERADO OAKS #4 Q-20
476-150-025-000	A	100.00	100.00	1	LOT 141 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-009-000	A	100.00	100.00	1	L 83 SILVERADO OAKS #4 Q-20
476-160-031-000	A	100.00	100.00	1	LOT 175 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-130-027-000	A	100.00	100.00	1	L 101 SILVERADO OAKS #4 Q-20
476-150-007-000	A	100.00	100.00	1	LOT 123 SILVERADO OAKS #5 PH B MOR R-27
476-160-013-000	A	100.00	100.00	1	LOT 157 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-280-002-000	A	100.00	100.00	1	LOT 62 PROSPECTOR POINT R-72
476-280-020-000	A	100.00	100.00	1	LOT 80 PROSPECTOR POINT R-72
476-260-056-000	A	100.00	100.00	1	LOT 233 PROSPECTOR POINT R-72
476-260-038-000	A	100.00	100.00	1	LOT 200 PROSPECTOR POINT R-72
476-180-076-000	A	100.00	100.00	1	LOT 76 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-230-024-000	A	100.00	100.00	1	LOT 69 SILVERADO VILLAGE R-71
476-200-031-000	A	100.00	100.00	1	POR LOT 76 KERRY DOWNS UNIT NO 1 R-69
476-220-030-000	A	100.00	100.00	1	LOT 30 SILVERADO VILLAGE R-71
476-250-008-000	A	100.00	100.00	1	LOT 132 SILVERADO VILLAGE MOR BK R PG 71
476-180-005-000	A	100.00	100.00	1	LOT 5 SILVERADO OAKS #5 PH A MOR BK R PG 26

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-180-023-000	A	100.00	100.00	1	LOT 23 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-013-000	A	100.00	100.00	1	LOT 61 KERRY DOWNS UNIT NO 1 R-69
476-230-006-000	A	100.00	100.00	1	LOT 51 SILVERADO VILLAGE R-71
476-250-044-000	A	100.00	100.00	1	LOT 168 SILVERADO VILLAGE MOR BK R PG 71
476-260-003-000	A	100.00	100.00	1	LOT 3 PROSPECTOR POINT R-2
476-260-021-000	A	100.00	100.00	1	LOT 35 PROSPECTOR POINT R-72
476-170-064-000	A	100.00	100.00	1	LOT 214 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-250-026-000	A	100.00	100.00	1	LOT 150 SILVERADO VILLAGE MOR BK R PG 71
476-180-041-000	A	100.00	100.00	1	LOT 41 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-280-019-000	A	100.00	100.00	1	LOT 79 PROSPECTOR POINT R-72
476-280-037-000	A	100.00	100.00	1	LOT 109 PROSPECTOR POINT R-72
476-240-032-000	A	100.00	100.00	1	LOT 118 SILVERADO VILLAGE R-71
476-210-035-000	A	100.00	100.00	1	LOT 42 KERRY DOWNS UNIT NO 1 MOR R-69
476-210-017-000	A	100.00	100.00	1	LOT 24 KERRY DOWNS UNIT NO 1 MOR R-69
476-220-012-000	A	100.00	100.00	1	LOT 12 SILVERADO VILLAGE R-71
476-180-048-000	A	100.00	100.00	1	LOT 48 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-270-007-000	A	100.00	100.00	1	LOT 26 PROSPECTOR POINT R-72
476-240-014-000	A	100.00	100.00	1	LOT 100 SILVERADO VILLAGE R-71
476-270-025-000	A	100.00	100.00	1	LOT 59 PROSPECTOR POINT R-72
476-260-046-000	A	100.00	100.00	1	LOT 208 PROSPECTOR POINT R-72
476-280-030-000	A	100.00	100.00	1	LOT 102 PROSPECTOR POINT R-72
476-180-066-000	A	100.00	100.00	1	LOT 66 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-028-000	A	100.00	100.00	1	LOT 42 PROSPECTOR POINT R-72
476-220-020-000	A	100.00	100.00	1	LOT 20 SILVERADO VILLAGE R-71
476-230-034-000	A	100.00	100.00	1	LOT 79 SILVERADO VILLAGE R-71
476-260-064-000	A	100.00	100.00	1	LOT 241 PROSPECTOR POINT R-72
476-250-018-000	A	100.00	100.00	1	LOT 142 SILVERADO VILLAGE R-71
476-170-056-000	A	100.00	100.00	1	LOT 206 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-230-016-000	A	100.00	100.00	1	LOT 61 SILVERADO VILLAGE R-71
476-240-029-000	A	100.00	100.00	1	LOT 115 SILVERADO VILLAGE R-71
476-180-013-000	A	100.00	100.00	1	LOT 13 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-210-010-000	A	100.00	100.00	1	LOT 17 KERRY DOWNS UNIT NO 1 MOR R-69
476-200-005-000	A	100.00	100.00	1	LOT 5 KERRY DOWNS UNIT NO 1 R-69
476-180-031-000	A	100.00	100.00	1	LOT 31 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-250-036-000	A	100.00	100.00	1	LOT 160 SILVERADO VILLAGE MOR BK R PG 71
476-280-047-000	A	100.00	100.00	1	LOT 119 PROSPECTOR POINT R-72
476-270-015-000	A	100.00	100.00	1	LOT 49 PROSPECTOR POINT R-72
476-260-011-000	A	100.00	100.00	1	LOT 11 PROSPECTOR POINT R-72
476-270-033-000	A	100.00	100.00	1	LOT 87 PROSPECTOR POINT R-72
476-220-037-000	A	100.00	100.00	1	LOT 37 SILVERADO VILLAGE R-71
476-220-019-000	A	100.00	100.00	1	LOT 19 SILVERADO VILLAGE R-71
476-240-004-000	A	100.00	100.00	1	LOT 90 SILVERADO VILLAGE MOR BK R PG 71
476-240-022-000	A	100.00	100.00	1	LOT 108 SILVERADO VILLAGE R-71
476-220-002-000	A	100.00	100.00	1	LOT 2 SILVERADO VILLAGE MOR BK R PG 71
476-210-045-000	A	100.00	100.00	1	LOT 52 KERRY DOWNS UNIT NO 1 MOR R-69
476-250-001-000	A	100.00	100.00	1	LOT 125 SILVERADO VILLAGE MOR BK R PG 71
476-210-027-000	A	100.00	100.00	1	LOT 34 KERRY DOWNS UNIT NO 1 MOR R-69
476-280-012-000	A	100.00	100.00	1	LOT 72 PROSPECTOR POINT R-72
476-210-009-000	A	100.00	100.00	1	LOT 16 KERRY DOWNS UNIT NO 1 MOR R-69
476-180-056-000	A	100.00	100.00	1	LOT 56 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-180-038-000	A	100.00	100.00	1	LOT 38 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-250-024-000	A	100.00	100.00	1	LOT 148 SILVERADO VILLAGE R-71
476-240-030-000	A	100.00	100.00	1	LOT 116 SILVERADO VILLAGE R-71
476-280-004-000	A	100.00	100.00	1	LOT 64 PROSPECTOR POINT R-72
476-180-074-000	A	100.00	100.00	1	LOT 74 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-250-042-000	A	100.00	100.00	1	LOT 166 SILVERADO VILLAGE MOR BK R PG 71
476-220-039-000	A	100.00	100.00	1	LOT 39 SILVERADO VILLAGE R-71
476-260-005-000	A	100.00	100.00	1	LOT 5 PROSPECTOR POINT R-72
476-260-023-000	A	100.00	100.00	1	LOT 37 PROSPECTOR POINT R-72
476-230-026-000	A	100.00	100.00	1	LOT 71 SILVERADO VILLAGE R-71
476-170-066-000	A	100.00	100.00	1	LOT 216 SILVERADO OAKS #5 PH B MOR R-27
476-270-010-000	A	100.00	100.00	1	LOT 29 PROSPECTOR POINT R-72
476-180-003-000	A	100.00	100.00	1	LOT 3 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-250-006-000	A	100.00	100.00	1	LOT 130 SILVERADO VILLAGE R-71
476-260-041-000	A	100.00	100.00	1	LOT 203 PROSPECTOR POINT R-72

City of Roseville
Northwest Roseville Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-180-021-000	A	100.00	100.00	1	LOT 21 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-230-008-000	A	100.00	100.00	1	LOT 53 SILVERADO VILLAGE R-71
476-280-029-000	A	100.00	100.00	1	LOT 101 PROSPECTOR POINT R-72
476-250-049-000	A	100.00	100.00	1	LOT 173 SILVERADO VILLAGE MOR BK R PG 71
476-210-033-000	A	100.00	100.00	1	LOT 40 KERRY DOWNS UNIT NO 1 MOR R-69
476-210-015-000	A	100.00	100.00	1	LOT 22 KERRY DOWNS UNIT NO 1 MOR R-69
476-200-011-000	A	100.00	100.00	1	LOT 59 KERRY DOWNS UNIT NO 1 MOR R-69
476-270-009-000	A	100.00	100.00	1	LOT 28 PROSPECTOR POINT MOR R-72
476-220-032-000	A	100.00	100.00	1	LOT 32 SILVERADO VILLAGE R-71
476-270-027-000	A	100.00	100.00	1	LOT 81 PROSPECTOR POINT R-72
476-240-012-000	A	100.00	100.00	1	LOT 98 SILVERADO VILLAGE R-71
476-260-048-000	A	100.00	100.00	1	LOT 210 PROSPECTOR POINT R-72
476-280-022-000	A	100.00	100.00	1	LOT 94 PROSPECTOR POINT R-72
476-280-040-000	A	100.00	100.00	1	LOT 112 PROSPECTOR POINT R-72
476-220-014-000	A	100.00	100.00	1	LOT 14 SILVERADO VILLAGE R-71
476-180-028-000	A	100.00	100.00	1	LOT 28 SILVERADO OAKS #5 PH A MOR R-26
476-180-046-000	A	100.00	100.00	1	LOT 46 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-066-000	A	100.00	100.00	1	LOT 243 PROSPECTOR POINT R-72
476-250-034-000	A	100.00	100.00	1	LOT 158 SILVERADO VILLAGE MOR BK R PG 71
476-240-020-000	A	100.00	100.00	1	LOT 106 SILVERADO VILLAGE R-71
476-180-064-000	A	100.00	100.00	1	LOT 64 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-021-000	A	100.00	100.00	1	LOT 69 KERRY DOWNS UNIT NO 1 R-69
476-230-036-000	A	100.00	100.00	1	LOT 81 SILVERADO VILLAGE R-71
476-200-003-000	A	100.00	100.00	1	LOT 3 KERRY DOWNS UNIT NO 1 MOR R-69
476-220-029-000	A	100.00	100.00	1	LOT 29 SILVERADO VILLAGE R-71
476-260-031-000	A	100.00	100.00	1	LOT 45 PROSPECTOR POINT R-72
476-250-016-000	A	100.00	100.00	1	LOT 140 SILVERADO VILLAGE MOR BK R PG 71
476-260-013-000	A	100.00	100.00	1	LOT 13 PROPSCTOR POINT R-72
476-230-018-000	A	100.00	100.00	1	LOT 63 SILVERADO VILLAGE R-71
476-280-039-000	A	100.00	100.00	1	LOT 111 PROSPECTOR POINT R-72
476-180-011-000	A	100.00	100.00	1	LOT 11 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-240-019-000	A	100.00	100.00	1	LOT 105 SILVERADO VILLAGE R-71
476-170-048-000	A	100.00	100.00	1	LOT 198 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-210-043-000	A	100.00	100.00	1	LOT 50 KERRY DOWNS UNIT NO 1 MOR R-69
476-240-037-000	A	100.00	100.00	1	LOT 123 SILVERADO VILLAGE R-71
476-220-022-000	A	100.00	100.00	1	LOT 22 SILVERADO VILLAGE R-71
476-210-025-000	A	100.00	100.00	1	LOT 32 KERRY DOWNS UNIT NO 1 MOR R-69
476-220-040-000	A	100.00	100.00	1	LOT 40 SILVERADO VILLAGE R-71
476-280-014-000	A	100.00	100.00	1	LOT 74 PROSPECTOR POINT R-72
476-210-007-000	A	100.00	100.00	1	LOT 14 KERRY DOWNS UNIT NO 1 MOR R-69
476-280-032-000	A	100.00	100.00	1	LOT 104 PROSPECTOR POINT R-72
476-240-002-000	A	100.00	100.00	1	LOT 88 SILVERADO VILLAGE R-71
476-270-017-000	A	100.00	100.00	1	LOT 51 PROSPECTOR POINT R-72
476-230-001-000	A	100.00	100.00	1	LOT 46 SILVERADO VILLAGE R-71
476-220-004-000	A	100.00	100.00	1	LOT 4 SILVERADO VILLAGE R-71
476-270-035-000	A	100.00	100.00	1	LOT 89 PROSPECTOR POINT R-72
476-250-004-000	A	100.00	100.00	1	LOT 128 SILVERADO VILLAGE MOR R-71
476-180-009-000	A	100.00	100.00	1	LOT 9 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-180-027-000	A	100.00	100.00	1	LOT 27 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-240-001-000	A	100.00	100.00	1	LOT 87 SILVERADO VILLAGE R-71
476-230-002-000	A	100.00	100.00	1	LOT 47 SILVERADO VILLAGE R-71
476-200-017-000	A	100.00	100.00	1	LOT 65 KERRY DOWNS UNIT NO 1 MOR R-69
476-250-040-000	A	100.00	100.00	1	LOT 164 SILVERADO VILLAGE MOR BK R PG 71
476-260-007-000	A	100.00	100.00	1	LOT 7 PROSPECTOR POINT R-72
476-180-063-000	A	100.00	100.00	1	LOT 63 SILVERADO OAKS #5 PH A MOR R-26
476-260-025-000	A	100.00	100.00	1	LOT 39 PROSPECTOR POINT R-72
476-250-022-000	A	100.00	100.00	1	LOT 146 SILVERADO VILLAGE MOR BK R PG 71
476-180-045-000	A	100.00	100.00	1	LOT 45 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-170-051-000	A	100.00	100.00	1	LOT 201 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-260-061-000	A	100.00	100.00	1	LOT 238 PROSPECTOR POINT R-72
476-280-006-000	A	100.00	100.00	1	LOT 66 PROSPECTOR POINT R-72
476-260-043-000	A	100.00	100.00	1	LOT 205 PROSPECTOR POINT R-72
476-230-019-000	A	100.00	100.00	1	LOT 64 SILVERADO VILLAGE R-71
476-200-035-000	A	100.00	100.00	1	LOT 73 & POR 77 & 78 KERRY DOWNS UNIT #1 MOR R-69
476-230-037-000	A	100.00	100.00	1	LOT 82 SILVERADO VILLAGE R-71

City of Roseville
Northwest Roseville Landscaping & Lighting District
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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-240-036-000	A	100.00	100.00	1	LOT 122 SILVERADO VILLAGE R-71
476-210-031-000	A	100.00	100.00	1	LOT 38 KERRY DOWNS UNIT NO 1 MOR R-69
476-210-013-000	A	100.00	100.00	1	LOT 20 KERRY DOWNS UNIT NO 1 MOR R-69
476-180-010-000	A	100.00	100.00	1	LOT 10 SILVERADO OAKS #5 PH A MOR R-26
476-220-016-000	A	100.00	100.00	1	LOT 16 SILVERADO VILLAGE R-71
476-250-029-000	A	100.00	100.00	1	LOT 153 SILVERADO VILLAGE R-71
476-270-003-000	A	100.00	100.00	1	LOT 22 PROSPECTOR POINT R-72
476-170-058-000	A	100.00	100.00	1	LOT 208 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-240-018-000	A	100.00	100.00	1	LOT 104 SILVERADO VILLAGE R-71
476-270-021-000	A	100.00	100.00	1	LOT 55 PROSPECTOR POINT R-72
476-260-068-000	A	100.00	100.00	1	LOT 245 PROSPECTOR POINT MOR R-72
476-270-038-000	A	100.00	100.00	1	LOT 92 PROSPECTOR POINT R-72
476-280-024-000	A	100.00	100.00	1	LOT 96 PROSPECTOR POINT R-72
476-280-042-000	A	100.00	100.00	1	LOT 114 PROSPECTOR POINT MOR R-72
476-230-020-000	A	100.00	100.00	1	LOT 65 SILVERADO VILLAGE R-71
476-220-034-000	A	100.00	100.00	1	LOT 34 SILVERADO VILLAGE R-71
476-170-061-000	A	100.00	100.00	1	LOT 211 SILVERADO OAKS #5 PH B MOR BK R BK 27
476-210-048-000	A	100.00	100.00	1	LOT 55 KERRY DOWNS NO UNIT NO 1 R-69
476-250-014-000	A	100.00	100.00	1	LOT 138 SILVERADO VILLAGE R-71
476-250-050-000	A	100.00	100.00	1	LOT 174 SILVERADO VILLAGE MOR BK R PG 71
476-230-012-000	A	100.00	100.00	1	LOT 57 SILVERADO VILLAGE R-71
476-180-017-000	A	100.00	100.00	1	LOT 17 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-009-000	A	100.00	100.00	1	LOT 57 KERRY DOWNS UNIT NO 1 MOR R-69
476-250-032-000	A	100.00	100.00	1	LOT 156 SILVERADO VILLAGE R-71
476-180-035-000	A	100.00	100.00	1	LOT 35 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-033-000	A	100.00	100.00	1	LOT 47 PROSPECTOR POINT R-72
476-270-011-000	A	100.00	100.00	1	LOT 30 PROSPECTOR POINT R-72
476-180-071-000	A	100.00	100.00	1	LOT 71 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-015-000	A	100.00	100.00	1	LOT 15 PROSPECTOR POINT R-72
476-180-053-000	A	100.00	100.00	1	LOT 53 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-027-000	A	100.00	100.00	1	LOT 75 KERRY DOWNS UNIT NO 1 R-69
476-260-051-000	A	100.00	100.00	1	LOT 213 PROSPECTOR POINT R-72
476-240-026-000	A	100.00	100.00	1	LOT 112 SILVERADO VILLAGE R-71
476-210-041-000	A	100.00	100.00	1	LOT 48 KERRY DOWNS UNIT NO 1 MOR R-69
476-250-039-000	A	100.00	100.00	1	LOT 163 SILVERADO VILLAGE MOR BK R PG 71
476-220-006-000	A	100.00	100.00	1	LOT 6 SILVERADO VILLAGE MOR R-71
476-200-010-000	A	100.00	100.00	1	LOT 58 KERRY DOWNS UNIT NO 1 MOR R-69
476-210-023-000	A	100.00	100.00	1	LOT 30 KERRY DOWNS UNIT NO 1 MOR R-69
476-280-016-000	A	100.00	100.00	1	LOT 76 PROSPECTOR POINT R-72
476-170-068-000	A	100.00	100.00	1	LOT 218 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-210-005-000	A	100.00	100.00	1	LOT 12 KERRY DOWNS UNIT NO 1 MOR R-69
476-240-008-000	A	100.00	100.00	1	LOT 94 SILVERADO VILLAGE R-71
476-280-034-000	A	100.00	100.00	1	LOT 106 PROSPECTOR POINT R-72
476-270-028-000	A	100.00	100.00	1	LOT 82 PROSPECTOR POINT R-72
476-220-024-000	A	100.00	100.00	1	LOT 24 SILVERADO VILLAGE R-71
476-230-030-000	A	100.00	100.00	1	LOT 75 SILVERADO VILLAGE R-71
476-220-042-000	A	100.00	100.00	1	LOT 42 SILVERADO VILLAGE R-71
476-260-058-000	A	100.00	100.00	1	LOT 235 PROSPECTOR POINT R-72
476-260-009-000	A	100.00	100.00	1	LOT 9 PROSPECTOR POINT R-72
476-230-022-000	A	100.00	100.00	1	LOT 67 SILVERADO VILLAGE R-71
476-260-027-000	A	100.00	100.00	1	LOT 41 PROSPECTOR POINT MOR R-72
476-230-040-000	A	100.00	100.00	1	LOT 85 SILVERADO VILLAGE R-71
476-200-033-000	A	100.00	100.00	1	LOT 71 & POR 79 & 80 KERRY DOWNS UNIT 1 R-69
476-170-053-000	A	100.00	100.00	1	LOT 203 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-260-063-000	A	100.00	100.00	1	LOT 240 PROSPECTOR POINT R-72
476-220-001-000	A	100.00	100.00	1	LOT 1 SILVERADO VILLAGE MOR BK R PG 71
476-250-002-000	A	100.00	100.00	1	LOT 126 SILVERADO VILLAGE R-71
476-180-007-000	A	100.00	100.00	1	LOT 7 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-180-025-000	A	100.00	100.00	1	LOT 25 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-045-000	A	100.00	100.00	1	LOT 207 PROSPECTOR POINT R-72
476-170-071-000	A	100.00	100.00	1	LOT 221 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-230-004-000	A	100.00	100.00	1	LOT 49 SILVERADO VILLAGE R-71
476-180-061-000	A	100.00	100.00	1	LOT 61 SILVERADO OAKS #5 PH A MOR R-26
476-250-019-000	A	100.00	100.00	1	LOT 143 SILVERADO VILLAGE MOR BK R PG 71
476-180-043-000	A	100.00	100.00	1	LOT 43 SILVERADO OAKS #5 PH A MOR BK R PG 26

City of Roseville
Northwest Roseville Landscaping & Lighting District
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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-280-008-000	A	100.00	100.00	1	LOT 68 PROSPECTOR POINT R-72
476-250-037-000	A	100.00	100.00	1	LOT 161 SILVERADO VILLAGE MOR BK R PG 71
476-210-011-000	A	100.00	100.00	1	LOT 18 KERRY DOWNS UNIT NO 1 R-69
476-200-015-000	A	100.00	100.00	1	LOT 63 KERRY DOWNS UNIT NO 1 MOR R-69
476-260-010-000	A	100.00	100.00	1	LOT 10 PROSPECTOR POINT R-72
476-270-005-000	A	100.00	100.00	1	LOT 24 PROSPECTOR POINT R-72
476-240-016-000	A	100.00	100.00	1	LOT 102 SILVERADO VILLAGE R-71
476-220-036-000	A	100.00	100.00	1	LOT 36 SILVERADO VILLAGE R-71
476-270-023-000	A	100.00	100.00	1	LOT 57 PROSPECTOR POINT R-72
476-230-029-000	A	100.00	100.00	1	LOT 74 SILVERADO VILLAGE R-71
476-280-026-000	A	100.00	100.00	1	LOT 98 PROSPECTOR POINT R-72
476-280-044-000	A	100.00	100.00	1	LOT 116 PROSPECTOR POINT R-72
476-220-018-000	A	100.00	100.00	1	LOT 18 SILVERADO VILLAGE R-71
476-250-020-000	A	100.00	100.00	1	LOT 144 SILVERADO VILLAGE MOR BK R PG 71
476-210-046-000	A	100.00	100.00	1	LOT 53 KERRY DOWNS UNIT NO 1 MOR R-69
476-240-034-000	A	100.00	100.00	1	LOT 120 SILVERADO VILLAGE R-71
476-180-068-000	A	100.00	100.00	1	LOT 68 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-210-028-000	A	100.00	100.00	1	LOT 35 KERRY DOWNS UNIT NO 1 MOR R-69
476-230-032-000	A	100.00	100.00	1	LOT 77 SILVERADO VILLAGE R-71
476-200-007-000	A	100.00	100.00	1	LOT 7 KERRY DOWNS UNIT NO 1 MOR R-69
476-260-035-000	A	100.00	100.00	1	LOT 197 PROSPECTOR POINT R-72
476-250-012-000	A	100.00	100.00	1	LOT 136 SILVERADO VILLAGE MOR BK R PG 71
476-260-017-000	A	100.00	100.00	1	LOT 17 PROSPECTOR POINT MOR R-72
476-230-014-000	A	100.00	100.00	1	LOT 59 SILVERADO VILLAGE R-71
476-180-015-000	A	100.00	100.00	1	LOT 15 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-053-000	A	100.00	100.00	1	LOT 230 PROSPECTOR POINT R-72
476-180-033-000	A	100.00	100.00	1	LOT 33 SILVERADO OAKS #5 PH A MOR R26
476-170-063-000	A	100.00	100.00	1	LOT 213 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-250-047-000	A	100.00	100.00	1	LOT 171 SILVERADO VILLAGE MOR BK R PG 71
476-260-071-000	A	100.00	100.00	1	LOT 248 PROSPECTOR POINT R-72
476-180-051-000	A	100.00	100.00	1	LKOT 51 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-220-026-000	A	100.00	100.00	1	LOT 26 SILVERADO VILLAGE R-71
476-220-044-000	A	100.00	100.00	1	LOT 44 SILVERADO VILLAGE R-71
476-210-021-000	A	100.00	100.00	1	LOT 28 KERRY DOWNS UNIT NO 1 MOR R-69
476-280-018-000	A	100.00	100.00	1	LOT 78 PROSPECTOR POINT R-72
476-230-039-000	A	100.00	100.00	1	LOT 84 SILVERADO VILLAGE R-71
476-240-006-000	A	100.00	100.00	1	LOT 92 SILVERADO VILLAGE R-71
476-210-003-000	A	100.00	100.00	1	LOT 10 KERRY DOWNS UNIT NO 1 MOR R-69
476-280-036-000	A	100.00	100.00	1	LOT 108 PROSPECTOR POINT R-72
476-270-013-000	A	100.00	100.00	1	LOT 32 PROSPECTOR POINT R-72
476-220-008-000	A	100.00	100.00	1	LOT 8 SILVERADO VILLAGE R-71
476-270-031-000	A	100.00	100.00	1	LOT 85 PROSPECTOR POINT R-72
476-250-030-000	A	100.00	100.00	1	LOT 154 SILVERADO VILLAGE R-71
476-180-058-000	A	100.00	100.00	1	LOT 58 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-240-024-000	A	100.00	100.00	1	LOT 110 SILVERADO VILLAGE R-71
476-280-001-000	A	100.00	100.00	1	LOT 61 PROSPECTOR POINT R-72
476-210-038-000	A	100.00	100.00	1	LOT 45 KERRY DOWNS UNIT NO 1 MOR R-69
476-260-065-000	A	100.00	100.00	1	LOT 242 PROSPECTOR POINT R-72
476-280-011-000	A	100.00	100.00	1	LOT 71 PROSPECTOR POINT R-72
476-260-047-000	A	100.00	100.00	1	LOT 209 PROSPECTOR POINT R-72
476-230-015-000	A	100.00	100.00	1	LOT 60 SILVERADO VILLAGE R-71
476-230-033-000	A	100.00	100.00	1	LOT 78 SILVERADO VILLAGE R-71
476-200-022-000	A	100.00	100.00	1	LOT 70 KERRY DOWNS UNIT NO 1 MOR R-69
476-180-014-000	A	100.00	100.00	1	LOT 14 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-012-000	A	100.00	100.00	1	LOT 12 PROSPECTOR POINT R-72
476-180-050-000	A	100.00	100.00	1	LOT 50 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-004-000	A	100.00	100.00	1	LOT 4 KERRY DOWNS UNIT NO 1 MOR R-69
476-180-032-000	A	100.00	100.00	1	LOT 32 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-250-035-000	A	100.00	100.00	1	LOT 159 SILVERADO VILLAGE MOR BK R PG 71
476-170-055-000	A	100.00	100.00	1	LOT 205 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-250-017-000	A	100.00	100.00	1	LOT 141 SILVERADO VILLAGE MOR BK R PG 71
476-270-034-000	A	100.00	100.00	1	LOT 88 PROSPECTOR POINT R-72
476-280-028-000	A	100.00	100.00	1	LOT 100 PROSPECTOR POINT R-72
476-260-030-000	A	100.00	100.00	1	LOT 44 PROSPECTOR POINT R-72
476-280-046-000	A	100.00	100.00	1	LOT 118 PROSPECTOR POINT R-72

City of Roseville
Northwest Roseville Landscaping & Lighting District
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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-220-038-000	A	100.00	100.00	1	LOT 38 SILVERADO VILLAGE R-71
476-210-044-000	A	100.00	100.00	1	LOT 51 KERRY DOWNS UNIT NO 1 MOR R-69
476-220-003-000	A	100.00	100.00	1	LOT 3 SILVERADO VILLAGE R-71
476-220-021-000	A	100.00	100.00	1	LOT 21 SILVERADO VILLAGE R-71
476-240-005-000	A	100.00	100.00	1	LOT 91 SILVERADO VILLAGE R-71
476-210-026-000	A	100.00	100.00	1	LOT 33 KERRY DOWNS UNIT NO 1 R-69
476-210-008-000	A	100.00	100.00	1	LOT 15 KERRY DOWNS UNIT NO 1 MOR R-69
476-240-023-000	A	100.00	100.00	1	LOT 109 SILVERADO VILLAGE R-71
476-270-016-000	A	100.00	100.00	1	LOT 50 PROSPECTOR POINT R-72
476-180-039-000	A	100.00	100.00	1	LOT 39 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-037-000	A	100.00	100.00	1	LOT 199 PROSPECTOR POINT R-72
476-180-075-000	A	100.00	100.00	1	LOT 75 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-180-057-000	A	100.00	100.00	1	LOT 57 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-280-003-000	A	100.00	100.00	1	LOT 63 PROSPECTOR POINT R-72
476-260-019-000	A	100.00	100.00	1	LOT 19 PROSPECTOR POINT R-72
476-220-011-000	A	100.00	100.00	1	LOT 11 SILVERADO VILLAGE R-71
476-260-055-000	A	100.00	100.00	1	LOT 232 PROSPECTOR POINT R-72
476-170-065-000	A	100.00	100.00	1	LOT 215 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-250-027-000	A	100.00	100.00	1	LOT 151 SILVERADO VILLAGE MOR BK R PG 71
476-250-045-000	A	100.00	100.00	1	LOT 169 SILVERADO VILLAGE MOR BK R PG 71
476-230-007-000	A	100.00	100.00	1	LOT 52 SILVERADO VILLAGE R-71
476-250-009-000	A	100.00	100.00	1	LOT 133 SILVERADO VILLAGE MOR BK R PG 71
476-170-047-000	A	100.00	100.00	1	LOT 194 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-180-004-000	A	100.00	100.00	1	LOT 4 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-230-025-000	A	100.00	100.00	1	LOT 70 SILVERADO VILLAGE R-71
476-180-022-000	A	100.00	100.00	1	LOT 22 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-014-000	A	100.00	100.00	1	LOT 62 KERRY DOWNS UNIT NO 1 R-69
476-180-040-000	A	100.00	100.00	1	LOT 40 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-002-000	A	100.00	100.00	1	LOT 2 PROSPECTOR POINT R-72
476-210-001-000	A	100.00	100.00	1	LOT 8 KERRY DOWNS UNIT NO 1 MOR R-69
476-280-038-000	A	100.00	100.00	1	LOT 110 PROSPECTOR POINT R-72
476-270-024-000	A	100.00	100.00	1	LOT 58 PROSPECTOR POINT R-72
476-260-020-000	A	100.00	100.00	1	LOT 34 PROSPECTOR POINT R-72
476-220-028-000	A	100.00	100.00	1	LOT 28 SILVERADO VILLAGE R-71
476-240-013-000	A	100.00	100.00	1	LOT 99 SILVERADO VILLAGE R-71
476-250-010-000	A	100.00	100.00	1	LOT 134 SILVERADO VILLAGE MOR BK R PG 71
476-240-031-000	A	100.00	100.00	1	LOT 117 SILVERADO VILLAGE R-71
476-210-036-000	A	100.00	100.00	1	LOT 43 KERRY DOWNS UNIT NO 1 MOR R-69
476-210-018-000	A	100.00	100.00	1	LOT 25 KERRY DOWNS UNIT NO 1 MOR R-69
476-180-029-000	A	100.00	100.00	1	LOT 29 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-270-006-000	A	100.00	100.00	1	LOT 25 PROSPECTOR POINT R-72
476-280-021-000	A	100.00	100.00	1	LOT 93 PROSPECTOR POINT R-72
476-250-051-000	A	100.00	100.00	1	LOT 175 SILVERADO VILLAGE MOR BK R PG 71
476-250-033-000	A	100.00	100.00	1	LOT 157 SILVERADO VILLAGE MOR BK R PG 71
476-180-065-000	A	100.00	100.00	1	LOT 65 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-250-015-000	A	100.00	100.00	1	LOT 139 SILVERADO VILLAGE R-71
476-180-047-000	A	100.00	100.00	1	LOT 47 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-019-000	A	100.00	100.00	1	LOT 67 KERRY DOWNS UNIT NO 1 R-69
476-230-017-000	A	100.00	100.00	1	LOT 62 SILVERADO VILLAGE R-71
476-200-002-000	A	100.00	100.00	1	LOT 2 KERRY DOWNS UNIT NO 1 MOR R-69
476-260-014-000	A	100.00	100.00	1	LOT 14 PROSPECTOR POINT R-72
476-270-001-000	A	100.00	100.00	1	LOT 20 PROSPECTOR POINT R-72
476-230-035-000	A	100.00	100.00	1	LOT 80 SILVERADO VILLAGE R-71
476-170-057-000	A	100.00	100.00	1	LOT 207 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-260-050-000	A	100.00	100.00	1	LOT 212 PROSPECTOR POINT R-72
476-180-012-000	A	100.00	100.00	1	LOT 12 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-032-000	A	100.00	100.00	1	LOT 46 PROSPECTOR POINT R-72
476-180-030-000	A	100.00	100.00	1	LOT 30 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-210-042-000	A	100.00	100.00	1	LOT 49 KERRY DOWNS UNIT NO 1 MOR R-69
476-240-038-000	A	100.00	100.00	1	LOT 124 SILVERADO VILLAGE R-71
476-200-020-000	A	100.00	100.00	1	LOT 68 KERRY DOWNS UNIT NO 1 MOR BK R PG 69
476-210-024-000	A	100.00	100.00	1	LOT 31 KERRY DOWNS UNIT NO 1 MOR BK R PG 69
476-210-006-000	A	100.00	100.00	1	LOT 13 KERRY DOWNS UNIT NO 1 R-69
476-240-021-000	A	100.00	100.00	1	LOT 107 SILVERADO VILLAGE R-71
476-270-018-000	A	100.00	100.00	1	LOT 52 PROSPECTOR POINT R-72

City of Roseville
Northwest Roseville Landscaping & Lighting District
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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-220-041-000	A	100.00	100.00	1	LOT 41 SILVERADO VILLAGE MOR R-71
476-220-005-000	A	100.00	100.00	1	LOT 5 SILVERADO VILLAGE R-71
476-280-013-000	A	100.00	100.00	1	LOT 73 POSPECTOR POINT R-72
476-260-039-000	A	100.00	100.00	1	LOT 201 PROSPECTOR POINT R-72
476-270-036-000	A	100.00	100.00	1	LOT 90 PROSPECTOR POINT R-72
476-280-031-000	A	100.00	100.00	1	LOT 103 PROSPECTOR POINT R-72
476-220-023-000	A	100.00	100.00	1	LOT 23 SILVERADO VILLAGE R-71
476-240-003-000	A	100.00	100.00	1	LOT 89 SILVERADO VILLAGE R-71
476-180-019-000	A	100.00	100.00	1	LOT 19 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-180-037-000	A	100.00	100.00	1	LOT 37 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-057-000	A	100.00	100.00	1	LOT 234 PROSECTOR POINT R-72
476-240-011-000	A	100.00	100.00	1	LOT 97 SILVERADO VILLAGE R-71
476-180-073-000	A	100.00	100.00	1	LOT 73 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-170-050-000	A	100.00	100.00	1	LOT 200 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-250-043-000	A	100.00	100.00	1	LOT 167 SILVERADO VILLAGE R-71
476-180-055-000	A	100.00	100.00	1	LOT 55 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-280-005-000	A	100.00	100.00	1	LOT 65 PROSPECTOR POINT R-72
476-200-012-000	A	100.00	100.00	1	LOT 60 KERRY DOWNS UNIT NO 1 R-69
476-260-004-000	A	100.00	100.00	1	LOT 4 PROSPECTOR POINT R-72
476-250-025-000	A	100.00	100.00	1	LOT 149 SILVERADO VILLAGE MOR BK R PG 71
476-260-040-000	A	100.00	100.00	1	LOT 202 PROSPECTOR POINT R-72
476-230-009-000	A	100.00	100.00	1	LOT 54 SILVERADO VILLAGE R-71
476-280-048-000	A	100.00	100.00	1	LOT 120 PROSPECTOR POINT R-72
476-180-002-000	A	100.00	100.00	1	LOT 2 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-230-027-000	A	100.00	100.00	1	LOT 72 SILVERADO VILLAGE R-71
476-250-007-000	A	100.00	100.00	1	LOT 131 SILVERADO VILLAGE MOR BK R PG 71
476-260-022-000	A	100.00	100.00	1	LOT 36 PROSPECTOR POINT R-72
476-180-020-000	A	100.00	100.00	1	LOT 20 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-240-028-000	A	100.00	100.00	1	LOT 114 SILVERADO VILLAG R-71
476-210-034-000	A	100.00	100.00	1	LOT 41 KERRY DOWNS UNIT NO 1 R-69
476-220-031-000	A	100.00	100.00	1	LOT 31 SILVERADO VILLAGE R-71
476-210-016-000	A	100.00	100.00	1	LOT 23 KERRY DOWNS UNIT NO 1 MOR R-69
476-220-013-000	A	100.00	100.00	1	LOT 13 SILVERADO VILLAGE R-71
476-270-008-000	A	100.00	100.00	1	LOT 27 PROSPECTOR POINT R-72
476-280-023-000	A	100.00	100.00	1	LOT 95 PROSPECTOR POINT R-72
476-280-041-000	A	100.00	100.00	1	LOT 113 PROSPECTOR POINT R-72
476-270-026-000	A	100.00	100.00	1	LOT 60 PROSPECTOR POINT R-72
476-260-029-000	A	100.00	100.00	1	LOT 43 PROSPECTOR POINT R-72
476-230-010-000	A	100.00	100.00	1	LOT 55 SILVERADO VILLAGE R-71
476-210-029-000	A	100.00	100.00	1	LOT 36 KERRY DOWNS UNIT NO 1 MOR R-69
476-180-018-000	A	100.00	100.00	1	LKOT 18 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-008-000	A	100.00	100.00	1	LOT 56 KERRY DOWNS UNIT NO 1 MOR R-69
476-260-016-000	A	100.00	100.00	1	LOT 16 PROSPECTOR POINT R-72
476-180-054-000	A	100.00	100.00	1	LOT 54 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-250-031-000	A	100.00	100.00	1	LOT 155 SILVERADO VILLAGE MOR BK R PG 71
476-180-036-000	A	100.00	100.00	1	LOT 36 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-170-060-000	A	100.00	100.00	1	LOT 210 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-240-010-000	A	100.00	100.00	1	LOT 96 SILVERADO VILLAGE R-71
476-250-013-000	A	100.00	100.00	1	LOT 137 SILVERADO VILLAGE MOR BK R PG 71
476-260-070-000	A	100.00	100.00	1	LOT 247 PROSPECTOR POINT R-72
476-260-052-000	A	100.00	100.00	1	LOT 214 PROSPECTOR POINT R-72
476-270-030-000	A	100.00	100.00	1	LOT 84 PROSPECTOR POINT R-72
476-260-034-000	A	100.00	100.00	1	LOT 48 PROSPECTOR POINT R-72
476-180-072-000	A	100.00	100.00	1	LOT 72 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-230-028-000	A	100.00	100.00	1	LOT 73 SILVERADO VILLAGE R-71
476-210-040-000	A	100.00	100.00	1	LOT 47 KERRY DOWNS UNIT NO 1 R-69
476-220-007-000	A	100.00	100.00	1	LOT 7 SILVERADO VILLAGE R-71
476-180-001-000	A	100.00	100.00	1	LOT 1 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-220-025-000	A	100.00	100.00	1	LOT 25 SILVERADO VILLAGE R-71
476-210-022-000	A	100.00	100.00	1	LOT 29 KERRY DOWNS UNIT NO 1 MOR R-69
476-170-067-000	A	100.00	100.00	1	LOT 217 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-240-009-000	A	100.00	100.00	1	LOT 95 SILVERADO VILLAGE R-71
476-210-004-000	A	100.00	100.00	1	LOT 11 KERRY DOWNS UNIT NO 1 MOR R-69
476-170-049-000	A	100.00	100.00	1	LOT 199 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-270-012-000	A	100.00	100.00	1	LOT 31 PROSPECTOR POINT R-72

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-240-027-000	A	100.00	100.00	1	LOT 113 SILVERADO VILLAGE R-71
476-280-015-000	A	100.00	100.00	1	LOT 75 PROSPECTOR POINT R-72
476-280-033-000	A	100.00	100.00	1	LOT 105 PROSPECTOR POINT R-72
476-230-011-000	A	100.00	100.00	1	LOT 56 SILVERADO VILLAGE R-71
476-220-043-000	A	100.00	100.00	1	LOT 43 SILVERADO VILLAGE R-71
476-260-059-000	A	100.00	100.00	1	LOT 236 PROSPECTOR POINT
476-250-023-000	A	100.00	100.00	1	LOT 147 SILVERADO VILLAGE MOR BK R PG 71
476-170-070-000	A	100.00	100.00	1	LOT 220 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-210-039-000	A	100.00	100.00	1	LOT 46 KERRY DOWNS UNIT NO 1 MOR R-69
476-250-041-000	A	100.00	100.00	1	LOT 165 SILVERADO VILLAGE R-71
476-230-003-000	A	100.00	100.00	1	LOT 48 SILVERADO VILLAGE R-71
476-170-052-000	A	100.00	100.00	1	LOT 202 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-230-021-000	A	100.00	100.00	1	LOT 66 SILVERADO VILLAGE R-71
476-180-008-000	A	100.00	100.00	1	LOT 8 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-250-005-000	A	100.00	100.00	1	LOT 129 SILVERADO VILLAGE MOR BK R PG 71
476-180-026-000	A	100.00	100.00	1	LOT 26 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-180-044-000	A	100.00	100.00	1	LOT 44 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-018-000	A	100.00	100.00	1	LOT 66 KERRY DOWNS UNIT NO 1 R-69
476-260-006-000	A	100.00	100.00	1	LOT 6 PROSPECTOR POINT R-72
476-260-042-000	A	100.00	100.00	1	LOT 204 PROSPECTOR POINT R-72
476-270-020-000	A	100.00	100.00	1	LOT 54 PROSPECTOR POINT R-72
476-280-007-000	A	100.00	100.00	1	LOT 67 PROSPECTOR POINT R-72
476-260-024-000	A	100.00	100.00	1	LOT 38 PROSPECTOR POINT R-72
476-180-062-000	A	100.00	100.00	1	LOT 62 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-036-000	A	100.00	100.00	1	LOT 74 & POR 76 & 77 KERRY DOWNS UNIT 1 R-69
476-230-038-000	A	100.00	100.00	1	LOT 83 SILVERADO VILLAGE R-71
476-260-060-000	A	100.00	100.00	1	LOT 237 PROSPECTOR POINT R-72
476-240-017-000	A	100.00	100.00	1	LOT 103 SILVERADO VILLAGE R-71
476-250-048-000	A	100.00	100.00	1	LOT 172 SILVERADO VILLAGE MOR BK R PG 71
476-240-035-000	A	100.00	100.00	1	LOT 121 SILVERADO VILLAGE R-71
476-210-032-000	A	100.00	100.00	1	LOT 39 KERRY DOWNS UNIT NO 1 MOR R-69
476-210-014-000	A	100.00	100.00	1	LOT 21 KERRY DOWNS UNIT NO 1 MOR R-69
476-200-001-000	A	100.00	100.00	1	LOT 1 KERRY DOWNS UNIT 1 R-69
476-280-025-000	A	100.00	100.00	1	LOT 97 PROSPECTOR POINT R-72
476-270-002-000	A	100.00	100.00	1	LOT 21 PROSPECTOR POINT R-72
476-170-059-000	A	100.00	100.00	1	LOT 209 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-280-043-000	A	100.00	100.00	1	LOT 115 PROSPECTOR POINT R-72
476-270-019-000	A	100.00	100.00	1	LOT 53 PROSPECTOR POINT R-72
476-180-069-000	A	100.00	100.00	1	LOT 69 SILVERADO OAKS #5 PHASE A MOR BK R PG 26
476-260-067-000	A	100.00	100.00	1	LOT 244 PROSPECTOR POINT R-72
476-270-037-000	A	100.00	100.00	1	LOT 91 PROSPECTOR POINT R-72
476-220-033-000	A	100.00	100.00	1	LOT 33 SILVERADO VILLAGE R-71
476-220-015-000	A	100.00	100.00	1	LOT 15 SILVERADO VILLAGE R-71
476-260-049-000	A	100.00	100.00	1	LOT 211 PROSPECTOR POINT R-72
476-260-018-000	A	100.00	100.00	1	LOT 18 PROSPECTOR POINT R-72
476-200-006-000	A	100.00	100.00	1	LOT 6 KERRY DOWNS UNIT NO 1 R-69
476-230-013-000	A	100.00	100.00	1	LOT 58 SILVERADO VILLAGE R-71
476-170-062-000	A	100.00	100.00	1	LOT 212 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-230-031-000	A	100.00	100.00	1	LOT 76 SILVERADO VILLAGE R-71
476-260-054-000	A	100.00	100.00	1	LOT 231 PROSPECTOR POINT R-72
476-260-036-000	A	100.00	100.00	1	LOT 198 PROSPECTOR POINT R-72
476-180-016-000	A	100.00	100.00	1	LOT 16 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-220-010-000	A	100.00	100.00	1	LOT 10 SILVERADO VILLAGE R-71
476-180-052-000	A	100.00	100.00	1	LOT 52 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-180-034-000	A	100.00	100.00	1	LOT 34 SILVERADO OAKS #5 PH A MOR R-26
476-250-028-000	A	100.00	100.00	1	LOT 152 SILVERADO VILLAGE MOR BK R PG 71
476-260-072-000	A	100.00	100.00	1	LOT 249 PROSPECTOR POINT R-72
476-210-020-000	A	100.00	100.00	1	LOT 27 KERRY DOWNS UNIT NO 1 R-69
476-250-046-000	A	100.00	100.00	1	LOT 170 SILVERADO VILLAGE MOR BK R PG 71
476-180-070-000	A	100.00	100.00	1	LOT 70 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-001-000	A	100.00	100.00	1	LOT 1 PROSPECTOR POINT R-72
476-170-069-000	A	100.00	100.00	1	LOT 219 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-240-007-000	A	100.00	100.00	1	LOT 93 SILVERADO VILLAGE R-71
476-210-002-000	A	100.00	100.00	1	LOT 9 KERRY DOWNS UNIT NO 1 R-69
476-270-014-000	A	100.00	100.00	1	LOT 33 PROSPECTOR POINT R-72

City of Roseville
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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-240-025-000	A	100.00	100.00	1	LOT 111 SILVERADO VILLAGE R-71
476-220-045-000	A	100.00	100.00	1	LOT 45 SILVERADO VILLAGE R-71
476-220-009-000	A	100.00	100.00	1	LOT 9 SILVERADO VILLAGE MOR R-71
476-280-017-000	A	100.00	100.00	1	LOT 77 PROSPECTOR POINT R-72
476-270-032-000	A	100.00	100.00	1	LOT 86 PROSPECTOR POINT R-72
476-220-027-000	A	100.00	100.00	1	LOT 27 SILVERADO VILLAGE MOR R-71
476-280-035-000	A	100.00	100.00	1	LOT 107 PROSPECTOR POINT R-72
476-250-011-000	A	100.00	100.00	1	LOT 135 SILVERADO VILLAGE MOR BK R PG 71
476-210-037-000	A	100.00	100.00	1	LOT 44 KERRY DOWNS UNIT NO 1 MOR R-69
476-180-077-000	A	100.00	100.00	1	LOT 77 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-210-019-000	A	100.00	100.00	1	LOT 26 KERRY DOWNS UNIT NO 1 MOR R-69
476-180-059-000	A	100.00	100.00	1	LOT 59 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-200-034-000	A	100.00	100.00	1	LOT 72 & POR 78 & 79 KERRY DOWNS UNIT 1 R-69
476-230-041-000	A	100.00	100.00	1	LOT 86 SILVERADO VILLAGE R-71
476-200-016-000	A	100.00	100.00	1	LOT 64 KERRY DOWNS UNIT NO 1 MOR R-69
476-260-008-000	A	100.00	100.00	1	LOT 8 PROSPECTOR POINT R-72
476-250-021-000	A	100.00	100.00	1	LOT 145 SILVERADO VILLAGE MOR BK R PG 71
476-170-072-000	A	100.00	100.00	1	LOT 222 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-260-044-000	A	100.00	100.00	1	LOT 206 PROSPECTOR POINT R-72
476-230-005-000	A	100.00	100.00	1	LOT 50 SILVERADO VILLAGE R-71
476-270-029-000	A	100.00	100.00	1	LOT 83 PROSPECTOR POINT R-72
476-230-023-000	A	100.00	100.00	1	LOT 68 SILVERADO VILLAGE R-71
476-250-003-000	A	100.00	100.00	1	LOT 127 SILVERADO VILLAGE MOR BK R PG 71
476-180-006-000	A	100.00	100.00	1	LOT 6 SILVERADO OAKS #5 PH A MOR R-26
476-260-026-000	A	100.00	100.00	1	LOT 40 PROSPECTOR POINT R-72
476-180-024-000	A	100.00	100.00	1	LOT 24 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-180-042-000	A	100.00	100.00	1	LOT 42 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-062-000	A	100.00	100.00	1	LOT 239 PROSPECTOR POINT R-72
476-250-038-000	A	100.00	100.00	1	LOT 162 SILVERADO VILLAGE MOR BK R PG 71
476-170-054-000	A	100.00	100.00	1	LOT 204 SILVERADO OAKS #5 PH B MOR BK R PG 27
476-280-009-000	A	100.00	100.00	1	LOT 69 PROSPECTOR POINT R-72
476-180-060-000	A	100.00	100.00	1	LOT 60 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-210-030-000	A	100.00	100.00	1	LOT 37 KERRY DOWNS UNIT NO 1 R-69
476-220-035-000	A	100.00	100.00	1	LOT 35 SILVERADO VILLAGE R-71
476-210-012-000	A	100.00	100.00	1	LOT 19 KERRY DOWNS UNIT NO 1 MOR R-69
476-220-017-000	A	100.00	100.00	1	LOT 17 SILVERADO VILLAGE R-71
476-280-027-000	A	100.00	100.00	1	LOT 99 PROSPECTOR POINT R-72
476-270-004-000	A	100.00	100.00	1	LOT 23 PROSPECTOR POINT R-72
476-280-045-000	A	100.00	100.00	1	LOT 117 PROSPECTOR POINT R-72
476-270-022-000	A	100.00	100.00	1	LOT 56 PROSPECTOR POINT R-72
476-240-015-000	A	100.00	100.00	1	LOT 101 SILVERADO VILLAGE R-71
476-280-010-000	A	100.00	100.00	1	LOT 70 PROSPECTOR POINT R-72
476-180-067-000	A	100.00	100.00	1	LOT 67 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-240-033-000	A	100.00	100.00	1	LOT 119 SILVERADO VILLAGE R-71
476-210-047-000	A	100.00	100.00	1	LOT 54 KERRY DOWNS UNIT NO 1 MOR R-69
476-180-049-000	A	100.00	100.00	1	LOT 49 SILVERADO OAKS #5 PH A MOR BK R PG 26
476-260-069-000	A	100.00	100.00	1	LOT 246 PROSPECTOR POINT R-72
476-310-022-000	A	100.00	100.00	1	LOT 64 CALIFORNIA LEGEND UNIT 1 R-93
476-340-036-000	A	100.00	100.00	1	LOT 106 CALIFORNIA LEGEND UNIT 2R-94
476-340-018-000	A	100.00	100.00	1	LOT 82 CALIFORNIA LEGEND UNIT 2 R-94
477-151-045-000	A	100.00	100.00	1	LOT 62 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-320-016-000	A	100.00	100.00	1	LOT 132 CALIFORNIA LEGEND UNIT 3 R-95
477-160-025-000	A	100.00	100.00	1	LOT 38 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-350-048-000	A	100.00	100.00	1	LOT 90 SILVERADO OAKS UNIT 6 PHASE A S-9
476-300-010-000	A	100.00	100.00	1	LOT 15 CALIFORNIA LEGEND UNIT 1 R-93
477-151-027-000	A	100.00	100.00	1	LOT 44 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-370-012-000	A	100.00	100.00	1	LOT 125 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-050-000	A	100.00	100.00	1	LOT 177 PROSPECTOR POINT R-72
476-310-004-000	A	100.00	100.00	1	LOT 4 CALIFORNIA LEGEND UNIT 1 R-93
477-160-007-000	A	100.00	100.00	1	LOT 7 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-151-009-000	A	100.00	100.00	1	LOT 26 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-141-015-000	A	100.00	100.00	1	LOT 15 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
477-130-064-000	A	100.00	100.00	1	LOT 111 PLEASANT GROVE UNIT 3 Q82
476-290-032-000	A	100.00	100.00	1	LOT 159 PROSPECTOR POINT R-72
476-380-042-000	A	100.00	100.00	1	LOT 173 SILVERADO OAKS UNIT 6 PHASE B S-10

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-420-012-000	A	100.00	100.00	1	LOT 111 KERRY DOWNS UNIT 2 S-69
477-130-046-000	A	100.00	100.00	1	LOT 93 PLEASANT GROVE UNIT 3 Q82
477-160-043-000	A	100.00	100.00	1	LOT 56 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-180-067-000	A	100.00	100.00	1	LOT 113 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-380-060-000	A	100.00	100.00	1	LOT 191 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-014-000	A	100.00	100.00	1	LOT 141 PROSPECTOR POINT MOR BK R PG 72
476-320-034-000	A	100.00	100.00	1	LOT 150 CALIFORNIA LEGEND UNIT 3 R-95
477-160-061-000	A	100.00	100.00	1	LOT 74 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-180-049-000	A	100.00	100.00	1	LOT 79 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-320-052-000	A	100.00	100.00	1	LOT 168 CALIFORNIA LEGEND UNIT 3 R-95
476-410-017-000	A	100.00	100.00	1	LOT 93 KERRY DOWNS UNIT 2 S-69
477-151-063-000	A	100.00	100.00	1	LOT 80 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-130-028-000	A	100.00	100.00	1	LOT 75 PLEASANT GROVE UNIT 3 Q82
476-350-005-000	A	100.00	100.00	1	LOT 5 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-023-000	A	100.00	100.00	1	LOT 65 SILVERADO OAKS UNIT 6 PHASE A S-9
477-120-016-000	A	100.00	100.00	1	LOT 118 PLEASANT GROVE UNIT 3 Q82
476-340-001-000	A	100.00	100.00	1	LOT 65 CALIFORNIA LEGEND UNIT 2 R-94
477-170-012-000	A	100.00	100.00	1	LOT 33 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-300-027-000	A	100.00	100.00	1	LOT 32 CALIFORNIA LEGEND UNIT 1 R-93
476-330-021-000	A	100.00	100.00	1	LOT 211 CALIFORNIA LEGEND UNIT 4 R-96
477-151-010-000	A	100.00	100.00	1	LOT 27 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-280-055-000	A	100.00	100.00	1	LOT 127 PROSPECTOR POINT R-72
476-360-017-000	A	100.00	100.00	1	LOT 31 SILVERADO OAKS UNIT 6 PHASE A S-9
476-330-003-000	A	100.00	100.00	1	LOT 193 CALIFORNIA LEGEND UNIT 4 R-96
476-350-041-000	A	100.00	100.00	1	LOT 83 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-006-000	A	100.00	100.00	1	LOT 6 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-009-000	A	100.00	100.00	1	LOT 14 CALIFORNIA LEGEND UNIT 1 R-93
476-380-034-000	A	100.00	100.00	1	LOT 165 SILVERADO OAKS UNIT 6 PHASE B S-10
476-360-035-000	A	100.00	100.00	1	LOT 49 SILVERADO OAKS UNIT 6 PHASE A S-9
476-370-030-000	A	100.00	100.00	1	LOT 219 SILVERADO OAKS UNIT 6 PHASE B S-10
477-160-068-000	A	100.00	100.00	1	LOT 81 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-077-000	A	100.00	100.00	1	LOT 225 CALIFORNIA LEGEND UNIT 4 R-96
477-060-003-000	A	100.00	100.00	1	13.8AC PAR 1 PMOR 34-125
477-180-042-000	A	100.00	100.00	1	LOT 72 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-380-016-000	A	100.00	100.00	1	LOT 147 SILVERADO OAKS UNIT 6 PHASE B S-10
477-010-061-000	A	100.00	100.00	1	LOT 32 PLEASANT GROVE UNIT 3 Q82
477-190-001-000	A	100.00	100.00	1	LOT 10 WOODCREEK OAKS VILLAGE 8 UNIT A MOR S-3
476-290-039-000	A	100.00	100.00	1	LOT 166 PROSPECTOR POINT MOR BK R PG 72
476-320-059-000	A	100.00	100.00	1	LOT 175 CALIFORNIA LEGEND UNIT 3 R-95
477-141-033-000	A	100.00	100.00	1	LOT 98 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
477-180-024-000	A	100.00	100.00	1	LOT 54 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-010-043-000	A	100.00	100.00	1	LOT 14 PLEASANT GROVE UNIT 3 Q82
476-330-038-000	A	100.00	100.00	1	LOT 231 CALIFORNIA LEGEND UNIT 4 R-96
476-380-049-000	A	100.00	100.00	1	LOT 180 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-060-000	A	100.00	100.00	1	LOT 106 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-011-000	A	100.00	100.00	1	LOT 58 PLEASANT GROVE UNIT 3 Q82
476-380-067-000	A	100.00	100.00	1	LOT 198 SILVERADO OAKS UNIT 6 PHASE B S-10
476-430-016-000	A	100.00	100.00	1	LOT 16 SILVERADO OAKS UNIT 6C T-43
477-130-003-000	A	100.00	100.00	1	LOT 50 PLEASANT GROVE UNIT 3 Q82
476-340-008-000	A	100.00	100.00	1	LOT 72 CALIFORNIA LEGEND UNIT 2 R-94
477-030-057-000	A	100.00	100.00	1	LOT 2 PLEASANT GROVE UNIT 3 Q82
477-130-021-000	A	100.00	100.00	1	LOT 68 PLEASANT GROVE UNIT 3 Q82
477-151-035-000	A	100.00	100.00	1	LOT 52 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-151-017-000	A	100.00	100.00	1	LOT 34 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-420-019-000	A	100.00	100.00	1	LOT 118 KERRY DOWNS UNIT 2 S-69
476-320-006-000	A	100.00	100.00	1	LOT 122 CALIFORNIA LEGEND UNIT 3R-95
476-360-010-000	A	100.00	100.00	1	LOT 24 SILVERADO OAKS UNIT 6 PHASE A S-9
476-340-044-000	A	100.00	100.00	1	LOT 114 CALIFORNIA LEGEND UNIT 2 R-94
476-340-026-000	A	100.00	100.00	1	LOT 91 CALIFORNIA LEGEND UNIT 2 R-94
476-310-014-000	A	100.00	100.00	1	LOT 56 CALIFORNIA LEGEND UNIT 1 R-93
476-290-057-000	A	100.00	100.00	1	LOT 184 PROSPECTOR POINT MOR BK R PG 72
476-290-040-000	A	100.00	100.00	1	LOT 167 PROSPECTOR POINT MOR BK R PG 72
476-370-002-000	A	100.00	100.00	1	LOT 115 SILVERADO OAKS UNIT 6 PHASE B S-10
476-370-019-000	A	100.00	100.00	1	LOT 208 SILVERADO OAKS UNIT 6 PHASE B S-10
477-141-025-000	A	100.00	100.00	1	LOT 90 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-160-051-000	A	100.00	100.00	1	LOT 64 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-141-007-000	A	100.00	100.00	1	LOT 7 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-370-037-000	A	100.00	100.00	1	LOT 226 SILVERADO OAKS UNIT 6 PHASE B S-10
476-410-009-000	A	100.00	100.00	1	LOT 85 KERRY DOWNS UNIT 2 S-69
476-380-052-000	A	100.00	100.00	1	LOT 183 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-022-000	A	100.00	100.00	1	LOT 149 PROSPECTOR POINT MOR BK R PG 72
476-290-075-000	A	100.00	100.00	1	LOT 220 PROSPECTO POINT MOR BK R PG 72
476-330-011-000	A	100.00	100.00	1	LOT 201 CALIFORNIA LEGEND UNIT 4 R-96
477-190-008-000	A	100.00	100.00	1	LOT 17 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-320-060-000	A	100.00	100.00	1	LOT 176 CALIFORNIA LEGEND UNIT 3 R-95
477-160-015-000	A	100.00	100.00	1	LOT 15 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-010-058-000	A	100.00	100.00	1	LOT 29 PLEASANT GROVE UNIT 3 Q82
476-290-004-000	A	100.00	100.00	1	LOT 131 PROSPECTOR POINT MOR R-72
476-320-024-000	A	100.00	100.00	1	LOT 140 CALIFORNIA LEGEND UNIT 3 R-95
477-130-056-000	A	100.00	100.00	1	LOT 103 PLEASANT GROVE UNIT 3 Q82
476-380-070-000	A	100.00	100.00	1	LOT 201 SILVERADO OAKS UNIT 6 PHASE B S-10
476-420-002-000	A	100.00	100.00	1	LOT 101 KERRY DOWNS UNIT 2 S-69
476-320-042-000	A	100.00	100.00	1	LOT 158 CALIFORNIA LEGEND UNIT 3R-95
477-160-033-000	A	100.00	100.00	1	LOT 46 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-038-000	A	100.00	100.00	1	LOT 85 PLEASANT GROVE UNIT 3 Q82
477-151-053-000	A	100.00	100.00	1	LOT 70 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-180-059-000	A	100.00	100.00	1	LOT 105 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-410-027-000	A	100.00	100.00	1	LOT 124 KERRY DOWNS UNIT 2 S-69
476-360-009-000	A	100.00	100.00	1	LOT 23 SILVERADO OAKS UNIT 6 PHASE A S-9
476-300-035-000	A	100.00	100.00	1	LOT 40 CALIFORNIA LEGEND UNIT 1 R-93
477-120-006-000	A	100.00	100.00	1	LOT 39 PLEASANT GROVE UNIT 3 Q82
476-300-017-000	A	100.00	100.00	1	LOT 22 CALIFORNIA LEGEND UNIT 1 R-93
476-360-027-000	A	100.00	100.00	1	LOT 41 SILVERADO OAKS UNIT 6 PHASE A S-9
476-420-020-000	A	100.00	100.00	1	LOT 119 KERRY DOWNS UNIT 2 S-69
476-350-031-000	A	100.00	100.00	1	LOT 73 SILVERADO OAKS UNIT 6 PHASE A S-9
477-170-002-000	A	100.00	100.00	1	LOT 23 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-350-013-000	A	100.00	100.00	1	LOT 13 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-024-000	A	100.00	100.00	1	LOT 155 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-016-000	A	100.00	100.00	1	LOT 46 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-290-029-000	A	100.00	100.00	1	LOT 156 PROSPECTOR POINT R-72
476-320-049-000	A	100.00	100.00	1	LOT 165 CALIFORNIA LEGEND UNIT 3 R-95
476-320-067-000	A	100.00	100.00	1	LOT 183 CALIFORNIA LEGEND UNIT 3 R-95
476-410-010-000	A	100.00	100.00	1	LOT 86 KERRY DOWNS UNIT 2 S-69
477-180-052-000	A	100.00	100.00	1	LOT 82 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-370-020-000	A	100.00	100.00	1	LOT 209 SILVERADO OAKS UNIT 6 PHASE B S-10
476-380-006-000	A	100.00	100.00	1	LOT 137 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-034-000	A	100.00	100.00	1	LOT 64 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-330-028-000	A	100.00	100.00	1	LOT 218 CALIFORNIA LEGEND UNIT 4 R-96
477-160-058-000	A	100.00	100.00	1	LOT 71 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-380-059-000	A	100.00	100.00	1	LOT 190 SILVERADO OAKS UNIT 6 PHASE B S-10
476-350-066-000	A	100.00	100.00	1	LOT 108 SILVERADO OAKS UNIT 6 PHASE A S-9
477-010-051-000	A	100.00	100.00	1	LOT 22 PLEASANT GROVE UNIT #3 MOR Q-82
476-430-006-000	A	100.00	100.00	1	LOT 6 SILVERADO OAKS UNIT 6C T-43
477-180-070-000	A	100.00	100.00	1	LOT 116 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-330-046-000	A	100.00	100.00	1	LOT 103 CALIFORNIA LEGEND UNIT 2 R-94
477-130-031-000	A	100.00	100.00	1	LOT 78 PLEASANT GROVE UNIT 3 Q82
477-160-045-000	A	100.00	100.00	1	LOT 58 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-036-000	A	100.00	100.00	1	LOT 152 CALIFORNIA LEGEND UNIT 3 R-95
477-151-025-000	A	100.00	100.00	1	LOT 42 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-160-063-000	A	100.00	100.00	1	LOT 76 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-310-002-000	A	100.00	100.00	1	LOT 2 CALIFORNIA LEGEND UNIT 1 MOR BK R PG 93
476-370-014-000	A	100.00	100.00	1	LOT 127 SILVERADO OAKS UNIT 6 PHASE B S-10
477-130-013-000	A	100.00	100.00	1	LOT 60 PLEASANT GROVE UNIT 3 Q82
477-160-009-000	A	100.00	100.00	1	LOT 9 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-054-000	A	100.00	100.00	1	LOT 170 CALIFORNIA LEGEND UNIT 3 R-95
477-151-007-000	A	100.00	100.00	1	LOT 24 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-151-061-000	A	100.00	100.00	1	LOT 78 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-410-015-000	A	100.00	100.00	1	LOT 91 KERRY DOWNS UNIT 2 S-69
476-330-048-000	A	100.00	100.00	1	LOT 105 CALIFORNIA LEGEND UNIT 2R-94
476-370-032-000	A	100.00	100.00	1	LOT 221 SILVERADO OAKS UNIT 6 PHASE B S-10

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-340-016-000	A	100.00	100.00	1	LOT 80 CALIFORNIA LEGEND UNIT 2 R-94
476-320-018-000	A	100.00	100.00	1	LOT 134 CALIFORNIA LEGEND UNIT 3 R-95
476-410-033-000	A	100.00	100.00	1	POR LOT 77 KERRY DOWNS UNIT 2 S-69
477-160-027-000	A	100.00	100.00	1	LOT 40 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-120-001-000	A	100.00	100.00	1	LOT 34 PLEASANT GROVE UNIT 3 Q82
476-380-044-000	A	100.00	100.00	1	LOT 175 SILVERADO OAKS UNIT 6 PHASE B S-10
476-420-014-000	A	100.00	100.00	1	LOT 113 KERRY DOWNS UNIT 2 S-69
476-290-012-000	A	100.00	100.00	1	LOT 139 PROSPECTOR POINT MOR BK R PG 72
476-430-001-000	A	100.00	100.00	1	LOT 1 SILVERADO OAKS UNIT 6C T-43
477-180-069-000	A	100.00	100.00	1	LOT 115 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-290-047-000	A	100.00	100.00	1	LOT 174 PROSPECTOR POINT MOR BK R PG 72
476-380-062-000	A	100.00	100.00	1	LOT 193 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-065-000	A	100.00	100.00	1	LOT 192 PROSPECTOR POINT MOR BK R PG 72
477-141-017-000	A	100.00	100.00	1	LOT 17 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-340-034-000	A	100.00	100.00	1	LOT 99 CALIFORNIA LEGEND UNIT 2 R-94
476-290-083-000	A	100.00	100.00	1	LOT 228 PROSPECTOR POINT R-72
476-310-019-000	A	100.00	100.00	1	LOT 61 CALIFORNIA LEGEND UNIT 1 R-93
477-151-043-000	A	100.00	100.00	1	LOT 60 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-320-072-000	A	100.00	100.00	1	LOT 186 CALIFORNIA LEGEND UNIT 4 R-96
476-380-001-000	A	100.00	100.00	1	LOT 132 SILVERADO OAKS UNIT 6 PHASE B S-10
476-330-023-000	A	100.00	100.00	1	LOT 213 CALIFORNIA LEGEND UNIT 4 R-96
476-300-025-000	A	100.00	100.00	1	LOT 30 CALIFORNIA LEGEND UNIT 1 R-93
477-160-010-000	A	100.00	100.00	1	LOT 10 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-066-000	A	100.00	100.00	1	LOT 113 PLEASANT GROVE UNIT 3 Q82
476-330-005-000	A	100.00	100.00	1	LOT 195 CALIFORNIA LEGEND UNIT 4 R-96
477-180-008-000	A	100.00	100.00	1	LOT 8 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-007-000	A	100.00	100.00	1	LOT 12 CALIFORNIA LEGEND UNIT 1 R-93
476-350-003-000	A	100.00	100.00	1	LOT 3 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-021-000	A	100.00	100.00	1	LOT 63 SILVERADO OAKS UNIT 6 PHASE A S-9
477-120-018-000	A	100.00	100.00	1	LOT 120 PLEASANT GROVE UNIT 3 Q82
477-180-044-000	A	100.00	100.00	1	LOT 74 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-320-001-000	A	100.00	100.00	1	LOT 117 CALIFORNIA LEGEND UNIT 3R-95
477-141-035-000	A	100.00	100.00	1	LOT 100 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-370-039-000	A	100.00	100.00	1	LOT 228 SILVERADO OAKS UNIT 6 PHASE B S-10
477-010-045-000	A	100.00	100.00	1	LOT 16 PLEASANT GROVE UNIT 3 Q82
477-180-026-000	A	100.00	100.00	1	LOT 56 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-290-030-000	A	100.00	100.00	1	LOT 157 PROSPECTOR POINT MOR BK R PG 72
476-360-015-000	A	100.00	100.00	1	LOT 29 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-056-000	A	100.00	100.00	1	LOT 98 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-062-000	A	100.00	100.00	1	LOT 108 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-350-038-000	A	100.00	100.00	1	LOT 80 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-033-000	A	100.00	100.00	1	LOT 47 SILVERADO OAKS UNIT 6 PHASE A S-9
476-430-018-000	A	100.00	100.00	1	LOT 18 SILVERADO OAKS UNIT 6C T-43
476-380-036-000	A	100.00	100.00	1	LOT 167 SILVERADO OAKS UNIT 6 PHASE B S-10
476-380-069-000	A	100.00	100.00	1	LOT 200 SILVERADO OAKS UNIT 6 PHASE B S-10
476-310-020-000	A	100.00	100.00	1	LOT 62 CALIFORNIA LEGEND UNIT 1 R-93
476-320-079-000	A	100.00	100.00	1	LOT 227 CALIFORNIA LEGEND UNIT 4 R-96
476-380-018-000	A	100.00	100.00	1	LOT 149 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-080-000	A	100.00	100.00	1	LOT 126 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-160-017-000	A	100.00	100.00	1	LOT 17 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-180-001-000	A	100.00	100.00	1	LOT 1 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-320-026-000	A	100.00	100.00	1	LOT 142 CALIFORNIA LEGEND UNIT 3 R-95
476-320-044-000	A	100.00	100.00	1	LOT 160 CALIFORNIA LEGEND UNIT 3 R-95
477-130-041-000	A	100.00	100.00	1	LOT 88 PLEASANT GROVE UNIT 3 Q82
477-160-035-000	A	100.00	100.00	1	LOT 48 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-310-012-000	A	100.00	100.00	1	LOT 54 CALIFORNIA LEGEND UNIT 1 R-93
476-340-006-000	A	100.00	100.00	1	LOT 70 CALIFORNIA LEGEND UNIT 2 R-94
477-130-005-000	A	100.00	100.00	1	LOT 52 PLEASANT GROVE UNIT 3 Q82
477-130-023-000	A	100.00	100.00	1	LOT 70 PLEASANT GROVE UNIT 3 Q82
476-290-037-000	A	100.00	100.00	1	LOT 164 PROSPECTOR POINT MOR BK R PG 72
476-370-022-000	A	100.00	100.00	1	LOT 211 SILVERADO OAKS UNIT 6 PHASE B S-10
476-380-054-000	A	100.00	100.00	1	LOT 185 SILVERADO OAKS UNIT 6 PHASE B S-10
476-320-008-000	A	100.00	100.00	1	LOT 124 CALIFORNIA LEGEND UNIT 3R-95
476-290-019-000	A	100.00	100.00	1	LOT 146 PROSPECTOR POINT MOR BK R PG 72
476-290-002-000	A	100.00	100.00	1	LOT 129 PROSPECTOR POINT R-72

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-380-072-000	A	100.00	100.00	1	LOT 203 SILVERADO OAKS UNIT 6 PHASE B S-10
476-420-004-000	A	100.00	100.00	1	LOT 103 KERRY DOWNS UNIT 2 S-69
476-340-024-000	A	100.00	100.00	1	LOT 89 CALIFORNIA LEGEND UNIT 2 R-94
476-350-011-000	A	100.00	100.00	1	LOT 11 SILVERADO OAKS UNIT 6 PHASE A S-9
476-410-025-000	A	100.00	100.00	1	LOT 122 KERRY DOWNS UNIT 2 S-69
477-151-051-000	A	100.00	100.00	1	LOT 68 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-290-055-000	A	100.00	100.00	1	LOT 182 PROSPECTOR POINT MOR BK R PG 72
476-370-004-000	A	100.00	100.00	1	LOT 117 SILVERADO OAKS UNIT 6 PHASE B S-10
477-141-027-000	A	100.00	100.00	1	LOT 92 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-320-080-000	A	100.00	100.00	1	LOT 233 CALIFORNIA LEGEND UNIT 4 R-96
477-151-033-000	A	100.00	100.00	1	LOT 50 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-160-053-000	A	100.00	100.00	1	LOT 66 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-410-007-000	A	100.00	100.00	1	LOT 83 KERRY DOWNS UNIT 2 S-69
477-180-079-000	A	100.00	100.00	1	LOT 125 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-141-009-000	A	100.00	100.00	1	LOT 9 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
477-151-015-000	A	100.00	100.00	1	LOT 32 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-290-073-000	A	100.00	100.00	1	LOT 218 PROSPECTOR POINT R-72
476-320-062-000	A	100.00	100.00	1	LOT 178 CALIFORNIA LEGEND UNIT 3 R-95
477-190-006-000	A	100.00	100.00	1	LOT 15 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-340-042-000	A	100.00	100.00	1	LOT 112 CALIFORNIA LEGEND UNIT 2R-94
477-130-048-000	A	100.00	100.00	1	LOT 95 PLEASANT GROVE UNIT 3 Q82
477-170-004-000	A	100.00	100.00	1	LOT 25 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-330-031-000	A	100.00	100.00	1	LOT 221 CALIFORNIA LEGEND UNIT 4 R-96
477-180-018-000	A	100.00	100.00	1	LOT 48 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-120-008-000	A	100.00	100.00	1	LOT 41 PLEASANT GROVE UNIT 3 Q82
476-360-007-000	A	100.00	100.00	1	LOT 21 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-054-000	A	100.00	100.00	1	LOT 91 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-290-020-000	A	100.00	100.00	1	LOT 147 PROSPECTOR POINT R-72
477-180-036-000	A	100.00	100.00	1	LOT 66 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-360-025-000	A	100.00	100.00	1	LOT 39 SILVERADO OAKS UNIT 6 PHASE A S-9
476-370-029-000	A	100.00	100.00	1	LOT 218 SILVERADO OAKS UNIT 6 PHASE B S-10
476-330-013-000	A	100.00	100.00	1	LOT 203 CALIFORNIA LEGEND UNIT 4R-96
476-350-046-000	A	100.00	100.00	1	LOT 88 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-064-000	A	100.00	100.00	1	LOT 106 SILVERADO OAKS UNIT 6 PHASE A S-9
477-151-058-000	A	100.00	100.00	1	LOT 75 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-430-008-000	A	100.00	100.00	1	LOT 8 SILVERADO OAKS UNIT 6C T-43
477-010-053-000	A	100.00	100.00	1	LOT 24 PLEASANT GROVE UNIT 3 Q82
476-380-026-000	A	100.00	100.00	1	LOT 157 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-072-000	A	100.00	100.00	1	LOT 118 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-350-028-000	A	100.00	100.00	1	LOT 70 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-008-000	A	100.00	100.00	1	LOT 139 SILVERADO OAKS UNIT 6 PHASE B S-10
477-141-010-000	A	100.00	100.00	1	LOT 10 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-300-033-000	A	100.00	100.00	1	LOT 38 CALIFORNIA LEGEND UNIT 1 R-93
476-300-015-000	A	100.00	100.00	1	LOT 20 CALIFORNIA LEGEND UNIT 1 R-93
476-280-050-000	A	100.00	100.00	1	LOT 122 PROSPECTOR POINT R-72
476-370-034-000	A	100.00	100.00	1	LOT 223 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-072-000	A	100.00	100.00	1	LOT 217 PROSPECTOR POINT MOR BK R PG 72
476-410-031-000	A	100.00	100.00	1	LOT 128 KERRY DOWNS UNIT 2 S-69
477-130-051-000	A	100.00	100.00	1	LOT 98 PLEASANT GROVE UNIT 3 Q82
476-320-083-000	A	100.00	100.00	1	LOT 236 CALIFORNIA LEGEND UNIT 4 R-96
476-290-036-000	A	100.00	100.00	1	LOT 163 PROSPECTOR POINT MOR BK R PG 72
477-180-020-000	A	100.00	100.00	1	LOT 50 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-033-000	A	100.00	100.00	1	LOT 80 PLEASANT GROVE UNIT 3 Q82
477-160-038-000	A	100.00	100.00	1	LOT 51 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-420-016-000	A	100.00	100.00	1	LOT 115 KERRY DOWNS UNIT 2 S-69
476-320-047-000	A	100.00	100.00	1	LOT 163 CALIFORNIA LEGEND UNIT 3 R-95
476-380-055-000	A	100.00	100.00	1	LOT 186 SILVERADO OAKS UNIT 6 PHASE B S-10
476-320-065-000	A	100.00	100.00	1	LOT 181 CALIFORNIA LEGEND UNIT 3 R-95
476-290-018-000	A	100.00	100.00	1	LOT 145 PROSPECTOR POINT MOR BK R PG 72
477-130-015-000	A	100.00	100.00	1	LOT 62 PLEASANT GROVE UNIT 3 Q82
477-160-056-000	A	100.00	100.00	1	LOT 69 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-410-013-000	A	100.00	100.00	1	LOT 89 KERRY DOWNS UNIT 2 S-69
476-380-073-000	A	100.00	100.00	1	LOT 204 SILVERADO OAKS UNIT 6 PHASE B S-10
476-340-032-000	A	100.00	100.00	1	LOT 97 CALIFORNIA LEGEND UNIT 2 R-94
476-350-010-000	A	100.00	100.00	1	LOT 10 SILVERADO OAKS UNIT 6 PHASE A S-9

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-340-014-000	A	100.00	100.00	1	LOT 78 CALIFORNIA LEGEND UNIT 2 R-94
477-151-041-000	A	100.00	100.00	1	LOT 58 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-320-012-000	A	100.00	100.00	1	LOT 128 CALIFORNIA LEGEND UNIT 3 R-95
477-160-021-000	A	100.00	100.00	1	LOT 21 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-280-049-000	A	100.00	100.00	1	LOT 121 PROSPECTOR POINT R-72
477-151-023-000	A	100.00	100.00	1	LOT 40 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-310-008-000	A	100.00	100.00	1	LOT 50 CALIFORNIA LEGEND UNIT 1 R-93
477-160-003-000	A	100.00	100.00	1	LOT 3 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-370-016-000	A	100.00	100.00	1	LOT 129 SILVERADO OAKS UNIT 6 PHASE B S-10
477-141-028-000	A	100.00	100.00	1	LOT 93 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-290-054-000	A	100.00	100.00	1	LOT 181 PROSPECTOR POINT MOR BK R PG 72
477-151-005-000	A	100.00	100.00	1	LOT 22 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-380-030-000	A	100.00	100.00	1	LOT 161 SILVERADO OAKS UNIT 6 PHASE B S-10
477-010-056-000	A	100.00	100.00	1	LOT 27 PLEASANT GROVE UNIT 3 Q82
477-180-037-000	A	100.00	100.00	1	LOT 67 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-380-012-000	A	100.00	100.00	1	LOT 143 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-019-000	A	100.00	100.00	1	LOT 49 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-058-000	A	100.00	100.00	1	LOT 105 PLEASANT GROVE UNIT 3 Q82
476-290-079-000	A	100.00	100.00	1	LOT 224 PROSPECTOR POINT MOR BK R PG 72
476-330-043-000	A	100.00	100.00	1	LOT 86 CALIFORNIA LEGEND UNIT 2 R-94
477-180-073-000	A	100.00	100.00	1	LOT 119 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-320-030-000	A	100.00	100.00	1	LOT 146 CALIFORNIA LEGEND UNIT 3R-95
476-290-001-000	A	100.00	100.00	1	LOT 128 PROSPECTOR POINT MOR R-72
476-430-012-000	A	100.00	100.00	1	LOT 12 SILVERADO OAKS UNIT 6C T-43
477-180-055-000	A	100.00	100.00	1	LOT 92 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-151-048-000	A	100.00	100.00	1	LOT 65 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-120-012-000	A	100.00	100.00	1	LOT 45 PLEASANT GROVE UNIT 3 Q82
476-350-027-000	A	100.00	100.00	1	LOT 69 SILVERADO OAKS UNIT 6 PHASE A S-9
476-300-041-000	A	100.00	100.00	1	LOT 46 CALIFORNIA LEGEND UNIT 1 R-93
476-340-039-000	A	100.00	100.00	1	LOT 109 CALIFORNIA LEGEND UNIT 2R-94
476-350-009-000	A	100.00	100.00	1	LOT 9 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-063-000	A	100.00	100.00	1	LOT 105 SILVERADO OAKS UNIT 6 PHASE A S-9
476-330-025-000	A	100.00	100.00	1	LOT 215 CALIFORNIA LEGEND UNIT 4 R-96
476-300-023-000	A	100.00	100.00	1	LOT 28 CALIFORNIA LEGEND UNIT 1 R-93
476-360-013-000	A	100.00	100.00	1	LOT 27 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-045-000	A	100.00	100.00	1	LOT 87 SILVERADO OAKS UNIT 6 PHASE A S-9
476-330-007-000	A	100.00	100.00	1	LOT 197 CALIFORNIA LEGEND UNIT 4 R-96
477-180-002-000	A	100.00	100.00	1	LOT 2 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-005-000	A	100.00	100.00	1	LOT 10 CALIFORNIA LEGEND UNIT 1 R-93
476-360-031-000	A	100.00	100.00	1	LOT 45 SILVERADO OAKS UNIT 6 PHASE A S-9
477-141-011-000	A	100.00	100.00	1	LOT 11 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-320-073-000	A	100.00	100.00	1	LOT 187 CALIFORNIA LEGEND UNIT 4 R-96
477-160-064-000	A	100.00	100.00	1	LOT 77 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-141-021-000	A	100.00	100.00	1	LOT 86 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-370-006-000	A	100.00	100.00	1	LOT 119 SILVERADO OAKS UNIT 6 PHASE B S-10
476-370-024-000	A	100.00	100.00	1	LOT 213 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-062-000	A	100.00	100.00	1	LOT 189 PROSPECTOR POINT R-72
476-380-047-000	A	100.00	100.00	1	LOT 178 SILVERADO OAKS UNIT 6 PHASE B S-10
476-320-055-000	A	100.00	100.00	1	LOT 171 CALIFORNIA LEGEND UNIT 3 R-95
476-290-026-000	A	100.00	100.00	1	LOT 153 PROSPECTSOR POINT MOR BK R PG 72
476-410-005-000	A	100.00	100.00	1	LOT 81 KERRY DOWNS UNIT 2 S-69
476-290-080-000	A	100.00	100.00	1	LOT 225 PROSPECTOR POINT MOR BK R PG 72
477-141-003-000	A	100.00	100.00	1	LOT 3 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
477-180-030-000	A	100.00	100.00	1	LOT 60 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-380-065-000	A	100.00	100.00	1	LOT 196 SILVERADO OAKS UNIT 6 PHASE B S-10
477-190-004-000	A	100.00	100.00	1	LOT 13 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-061-000	A	100.00	100.00	1	LOT 108 PLEASANT GROVE UNIT 3 Q82
476-320-019-000	A	100.00	100.00	1	LOT 135 CALIFORNIA LEGEND UNIT 3 R-95
476-420-006-000	A	100.00	100.00	1	LOT 105 KERRY DOWNS UNIT 2 S-69
477-160-028-000	A	100.00	100.00	1	LOT 41 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-290-008-000	A	100.00	100.00	1	LOT 135 PROSPECTOR POINT MOR R-72
477-160-046-000	A	100.00	100.00	1	LOT 59 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-043-000	A	100.00	100.00	1	LOT 90 PLEASANT GROVE UNIT 3 Q82
476-320-037-000	A	100.00	100.00	1	LOT 153 CALIFORNIA LEGEND UNIT 3 R-95
476-410-023-000	A	100.00	100.00	1	LOT 99 KERRY DOWNS UNIT 2 S-69

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-430-020-000	A	100.00	100.00	1	LOT 20 SILVERADO OAKS UNIT 6C T-43
476-340-004-000	A	100.00	100.00	1	LOT 68 CALIFORNIA LEGEND UNIT 2 R-94
477-130-007-000	A	100.00	100.00	1	LOT 54 PLEASANT GROVE UNIT 3 Q82
477-030-062-000	A	100.00	100.00	1	LOT 7 PLEASANT GROVE UNIT 3 Q82
477-151-031-000	A	100.00	100.00	1	LOT 48 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-130-025-000	A	100.00	100.00	1	LOT 72 PLEASANT GROVE UNIT 3 Q82
477-151-013-000	A	100.00	100.00	1	LOT 30 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-320-002-000	A	100.00	100.00	1	LOT 118 CALIFORNIA LEGEND UNIT 3 R-95
476-340-040-000	A	100.00	100.00	1	LOT 110 CALIFORNIA LEGEND UNIT 2R-94
477-130-068-000	A	100.00	100.00	1	LOT 115 PLEASANT GROVE UNIT 3 Q82
476-340-022-000	A	100.00	100.00	1	LOT 87 CALIFORNIA LEGEND UNIT 2 R-94
476-380-020-000	A	100.00	100.00	1	LOT 151 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-044-000	A	100.00	100.00	1	LOT 171 PROSPECTOR POINT MOR BK R PG 72
476-310-018-000	A	100.00	100.00	1	LOT 60 CALIFORNIA LEGEND UNIT 1 R-93
477-180-065-000	A	100.00	100.00	1	LOT 111 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-010-046-000	A	100.00	100.00	1	LOT 17 PLEASANT GROVE UNIT 3 Q82
476-380-002-000	A	100.00	100.00	1	LOT 133 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-083-000	A	100.00	100.00	1	LOT 150 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-330-015-000	A	100.00	100.00	1	LOT 205 CALIFORNIA LEGEND UNIT 4 R-96
476-350-053-000	A	100.00	100.00	1	LOT 95 SILVERADO OAKS UNIT 6 PHASE A S-9
477-160-011-000	A	100.00	100.00	1	LOT 11 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-180-047-000	A	100.00	100.00	1	LOT 77 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-290-069-000	A	100.00	100.00	1	LOT 196 PROSPECTOR POINT R-72
476-320-020-000	A	100.00	100.00	1	LOT 136 CALIFORNIA LEGEND UNIT 3 R-95
476-330-033-000	A	100.00	100.00	1	LOT 223 CALIFORNIA LEGEND UNIT 4 R-96
476-350-071-000	A	100.00	100.00	1	LOT 113 SILVERADO OAKS UNIT 6 PHASE A S-9
476-430-002-000	A	100.00	100.00	1	LOT 2 SILVERADO OAKS UNIT 6C T-43
477-120-002-000	A	100.00	100.00	1	LOT 35 PLEASANT GROVE UNIT 3 Q82
476-360-005-000	A	100.00	100.00	1	LOT 19 SILVERADO OAKS UNIT 6 PHASE A S-9
476-300-031-000	A	100.00	100.00	1	LOT 36 CALIFORNIA LEGEND UNIT 1 R-93
476-430-019-000	A	100.00	100.00	1	LOT 19 SILVERADO OAKS UNIT 6C T-43
476-360-023-000	A	100.00	100.00	1	LOT 37 SILVERADO OAKS UNIT 6 PHASE A S-9
476-300-013-000	A	100.00	100.00	1	LOT 18 CALIFORNIA LEGEND UNIT 1 MOR R-93
476-280-052-000	A	100.00	100.00	1	LOT 124 PROSPECTOR POINT R-72
476-310-001-000	A	100.00	100.00	1	LOT 1 CALIFORNIA LEGEND UNIT #1 MOR R-93
476-340-029-000	A	100.00	100.00	1	LOT 94 CALIFORNIA LEGEND UNIT 2 R-94
476-350-035-000	A	100.00	100.00	1	LOT 77 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-037-000	A	100.00	100.00	1	LOT 168 SILVERADO OAKS UNIT 6 PHASE B S-10
477-170-006-000	A	100.00	100.00	1	LOT 27 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-350-017-000	A	100.00	100.00	1	LOT 59 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-019-000	A	100.00	100.00	1	LOT 150 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-012-000	A	100.00	100.00	1	LOT 42 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-360-041-000	A	100.00	100.00	1	LOT 55 SILVERADO OAKS UNIT 6 PHASE A S-9
476-420-018-000	A	100.00	100.00	1	LOT 117 KERRY DOWNS UNIT 2 S-69
476-380-057-000	A	100.00	100.00	1	LOT 188 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-016-000	A	100.00	100.00	1	LOT 143 PROSPECTOR POINT MOR BK R PG 72
476-350-068-000	A	100.00	100.00	1	LOT 110 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-011-000	A	100.00	100.00	1	LOT 25 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-039-000	A	100.00	100.00	1	LOT 170 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-052-000	A	100.00	100.00	1	LOT 179 PROSPECTOR POINT MOR BK R PG 72
477-141-013-000	A	100.00	100.00	1	LOT 13 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-380-075-000	A	100.00	100.00	1	LOT 206 SILVERADO OAKS UNIT 6 PHASE B S-10
477-151-056-000	A	100.00	100.00	1	LOT 73 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-290-070-000	A	100.00	100.00	1	LOT 215 PROSPECTOR POINT MOR BK R PG 72
477-130-053-000	A	100.00	100.00	1	LOT 100 PLEASANT GROVE UNIT 3 Q82
477-151-038-000	A	100.00	100.00	1	LOT 55 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-130-035-000	A	100.00	100.00	1	LOT 82 PLEASANT GROVE UNIT 3 Q82
477-160-041-000	A	100.00	100.00	1	LOT 54 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-151-021-000	A	100.00	100.00	1	LOT 38 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-320-032-000	A	100.00	100.00	1	LOT 148 CALIFORNIA LEGEND UNIT 3 R-95
476-330-010-000	A	100.00	100.00	1	LOT 200 CALIFORNIA LEGEND UNIT 4R-96
476-370-018-000	A	100.00	100.00	1	LOT 131 SILVERADO OAKS UNIT 6 PHASE B S-10
477-130-017-000	A	100.00	100.00	1	LOT 64 PLEASANT GROVE UNIT 3 Q82
476-310-006-000	A	100.00	100.00	1	LOT 48 CALIFORNIA LEGEND UNIT 1 R-93
477-160-005-000	A	100.00	100.00	1	LOT 5 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-320-050-000	A	100.00	100.00	1	LOT 166 CALIFORNIA LEGEND UNIT 3 R-95
477-170-001-000	A	100.00	100.00	1	LOT 22 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-151-003-000	A	100.00	100.00	1	LOT 20 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-370-036-000	A	100.00	100.00	1	LOT 225 SILVERADO OAKS UNIT 6 PHASE B S-10
477-010-048-000	A	100.00	100.00	1	LOT 19 PLEASANT GROVE UNIT 3 Q82
477-180-029-000	A	100.00	100.00	1	LOT 59 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-410-028-000	A	100.00	100.00	1	LOT 125 KERRY DOWNS UNIT 2 S-69
476-340-012-000	A	100.00	100.00	1	LOT 76 CALIFORNIA LEGEND UNIT 2 R-94
476-320-014-000	A	100.00	100.00	1	LOT 130 CALIFORNIA LEGEND UNIT 3 R-95
476-290-034-000	A	100.00	100.00	1	LOT 161 PROSPECTOR POINT MOR BK R PG 72
477-160-023-000	A	100.00	100.00	1	LOT 36 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-380-040-000	A	100.00	100.00	1	LOT 171 SILVERADO OAKS UNIT 6 PHASE B S-10
476-350-061-000	A	100.00	100.00	1	LOT 103 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-028-000	A	100.00	100.00	1	LOT 42 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-043-000	A	100.00	100.00	1	LOT 85 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-057-000	A	100.00	100.00	1	LOT 103 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-430-014-000	A	100.00	100.00	1	LOT 14 SILVERADO OAKS UNIT 6C T-43
476-340-030-000	A	100.00	100.00	1	LOT 95 CALIFORNIA LEGEND UNIT 2 R-94
476-380-032-000	A	100.00	100.00	1	LOT 163 SILVERADO OAKS UNIT 6 PHASE B S-10
476-420-001-000	A	100.00	100.00	1	LOT 100 KERRY DOWNS UNIT 2 S-69
476-290-059-000	A	100.00	100.00	1	LOT 186 PROSPECTOR POINT R-72
476-380-014-000	A	100.00	100.00	1	LOT 145 SILVERADO OAKS UNIT 6 PHASE B S-10
476-370-001-000	A	100.00	100.00	1	LOT 114 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-075-000	A	100.00	100.00	1	LOT 121 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-038-000	A	100.00	100.00	1	LOT 43 CALIFORNIA LEGEND UNIT 1 R-93
476-290-077-000	A	100.00	100.00	1	LOT 222 PROSPECTOR POINT R-72
476-330-027-000	A	100.00	100.00	1	LOT 217 CALIFORNIA LEGEND UNIT 4R-96
476-300-021-000	A	100.00	100.00	1	LOT 26 CALIFORNIA LEGEND UNIT 1 R-93
476-330-045-000	A	100.00	100.00	1	LOT 102 CALIFORNIA LEGEND UNIT 2 R-94
476-330-009-000	A	100.00	100.00	1	LOT 199 CALIFORNIA LEGEND UNIT 4R-96
477-180-004-000	A	100.00	100.00	1	LOT 4 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-160-048-000	A	100.00	100.00	1	LOT 61 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-410-011-000	A	100.00	100.00	1	LOT 87 KERRY DOWNS UNIT 2 S-69
476-320-039-000	A	100.00	100.00	1	LOT 155 CALIFORNIA LEGEND UNIT 3 R-95
476-300-003-000	A	100.00	100.00	1	LOT 8 CALIFORNIA LEGEND UNIT 1 R-93
477-030-059-000	A	100.00	100.00	1	LOT 4 PLEASANT GROVE UNIT 3 Q82
477-180-040-000	A	100.00	100.00	1	LOT 70 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-120-014-000	A	100.00	100.00	1	LOT 47 PLEASANT GROVE UNIT 3 Q82
476-350-025-000	A	100.00	100.00	1	LOT 67 SILVERADO OAKS UNIT 6 PHASE A S-9
477-141-031-000	A	100.00	100.00	1	LOT 96 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-350-007-000	A	100.00	100.00	1	LOT 7 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-022-000	A	100.00	100.00	1	LOT 52 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-010-041-000	A	100.00	100.00	1	LOT 12 PLEASANT GROVE UNIT 3 Q82
476-380-029-000	A	100.00	100.00	1	LOT 160 SILVERADO OAKS UNIT 6 PHASE B S-10
476-420-008-000	A	100.00	100.00	1	LOT 107 KERRY DOWNS UNIT 2 S-69
476-290-006-000	A	100.00	100.00	1	LOT 133 PROSPECTOR POINT MOR R-72
476-340-019-000	A	100.00	100.00	1	LOT 83 CALIFORNIA LEGEND UNIT 2 R-94
476-290-042-000	A	100.00	100.00	1	LOT 169 PROSPECTOR POINT R-72
476-410-021-000	A	100.00	100.00	1	LOT 97 KERRY DOWNS UNIT 2 S-69
477-141-023-000	A	100.00	100.00	1	LOT 88 WOODCREEK OAKS UNIT #6 (AMENDED MAP) T-28
476-370-008-000	A	100.00	100.00	1	LOT 121 SILVERADO OAKS UNIT 6 PHASE B S-10
477-160-066-000	A	100.00	100.00	1	LOT 79 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-075-000	A	100.00	100.00	1	LOT 189 CALIFORNIA LEGEND UNIT 4 R-96
477-151-046-000	A	100.00	100.00	1	LOT 63 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-290-060-000	A	100.00	100.00	1	LOT 187 PROSPECTOR POINT MOR BK R PG 72
476-350-058-000	A	100.00	100.00	1	LOT 100 SILVERADO OAKS UNIT 6 PHASE A S-9
476-320-057-000	A	100.00	100.00	1	LOT 173 CALIFORNIA LEGEND UNIT 3 R-95
476-300-011-000	A	100.00	100.00	1	LOT 16 CALIFORNIA LEGEND UNIT 1 R-93
477-141-005-000	A	100.00	100.00	1	LOT 5 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-340-037-000	A	100.00	100.00	1	LOT 107 CALIFORNIA LEGEND UNIT 2R-94
477-151-028-000	A	100.00	100.00	1	LOT 45 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-190-002-000	A	100.00	100.00	1	LOT 11 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-063-000	A	100.00	100.00	1	LOT 110 PLEASANT GROVE UNIT 3 MOR Q-82
476-320-022-000	A	100.00	100.00	1	LOT 138 CALIFORNIA LEGEND UNIT 3 R-95
477-160-031-000	A	100.00	100.00	1	LOT 44 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74

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477-130-045-000	A	100.00	100.00	1	LOT 92 PLEASANT GROVE UNIT 3 Q82
476-320-040-000	A	100.00	100.00	1	LOT 156 CALIFORNIA LEGEND UNIT 3 R-95
476-310-016-000	A	100.00	100.00	1	LOT 58 CALIFORNIA LEGEND UNIT 1 R-93
477-180-039-000	A	100.00	100.00	1	LOT 69 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-009-000	A	100.00	100.00	1	LOT 56 PLEASANT GROVE UNIT 3 Q82
477-030-060-000	A	100.00	100.00	1	LOT 5 PLEASANT GROVE UNIT 3 Q82
476-340-002-000	A	100.00	100.00	1	LOT 66 CALIFORNIA LEGEND UNIT 2 R-94
477-151-064-000	A	100.00	100.00	1	LOT 81 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-370-026-000	A	100.00	100.00	1	LOT 215 SILVERADO OAKS UNIT 6 PHASE B S-10
477-130-027-000	A	100.00	100.00	1	LOT 74 PLEASANT GROVE UNIT 3 Q82
476-380-050-000	A	100.00	100.00	1	LOT 181 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-024-000	A	100.00	100.00	1	LOT 151 PROSPECTOR POINT MOR BK R PG 72
477-160-013-000	A	100.00	100.00	1	LOT 13 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-004-000	A	100.00	100.00	1	LOT 120 CALIFORNIA LEGEND UNIT 3R-95
476-350-033-000	A	100.00	100.00	1	LOT 75 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-015-000	A	100.00	100.00	1	LOT 57 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-038-000	A	100.00	100.00	1	LOT 52 SILVERADO OAKS UNIT 6 PHASE A S-9
476-340-020-000	A	100.00	100.00	1	LOT 84 CALIFORNIA LEGEND UNIT 2 R-94
476-380-022-000	A	100.00	100.00	1	LOT 153 SILVERADO OAKS UNIT 6 PHASE B S-10
476-430-004-000	A	100.00	100.00	1	LOT 4 SILVERADO OAKS UNIT 6C T-43
476-290-049-000	A	100.00	100.00	1	LOT 176 PROSPECTOR POINT MOR BK R PG 72
477-180-085-000	A	100.00	100.00	1	POR LOT 123 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-380-004-000	A	100.00	100.00	1	LOT 135 SILVERADO OAKS UNIT 6 PHASE B S-10
476-300-028-000	A	100.00	100.00	1	LOT 33 CALIFORNIA LEGEND UNIT 1 R-93
477-151-011-000	A	100.00	100.00	1	LOT 28 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-350-051-000	A	100.00	100.00	1	LOT 93 SILVERADO OAKS UNIT 6 PHASE A S-9
476-290-067-000	A	100.00	100.00	1	LOT 194 PROSPECTOR POINT MOR BK R PG 72
476-280-054-000	A	100.00	100.00	1	LOT 126 PROSPECTOR POINT R-72
477-170-008-000	A	100.00	100.00	1	LOT 29 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-330-035-000	A	100.00	100.00	1	LOT 228 CALIFORNIA LEGEND UNIT 4 R-96
477-180-014-000	A	100.00	100.00	1	LOT 44 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-320-029-000	A	100.00	100.00	1	LOT 145 CALIFORNIA LEGEND UNIT 3 R-95
477-130-010-000	A	100.00	100.00	1	LOT 57 PLEASANT GROVE UNIT 3 Q82
476-360-003-000	A	100.00	100.00	1	LOT 17 SILVERADO OAKS UNIT 6 PHASE A S-9
477-120-004-000	A	100.00	100.00	1	LOT 37 PLEASANT GROVE UNIT 3 Q82
477-180-050-000	A	100.00	100.00	1	LOT 80 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-180-032-000	A	100.00	100.00	1	LOT 62 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-360-021-000	A	100.00	100.00	1	LOT 35 SILVERADO OAKS UNIT 6 PHASE A S-9
476-330-017-000	A	100.00	100.00	1	LOT 207 CALIFORNIA LEGEND UNIT 4 R-96
476-340-027-000	A	100.00	100.00	1	LOT 92 CALIFORNIA LEGEND UNIT 2 R-94
476-310-013-000	A	100.00	100.00	1	LOT 55 CALIFORNIA LEGEND UNIT 1 R-93
476-320-007-000	A	100.00	100.00	1	LOT 123 CALIFORNIA LEGEND UNIT 3R-95
476-340-045-000	A	100.00	100.00	1	LOT 115 CALIFORNIA LEGEND UNIT 2 R-94
477-151-054-000	A	100.00	100.00	1	LOT 71 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-340-009-000	A	100.00	100.00	1	LOT 73 CALIFORNIA LEGEND UNIT 2 R-94
477-160-016-000	A	100.00	100.00	1	LOT 16 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-002-000	A	100.00	100.00	1	LOT 49 PLEASANT GROVE UNIT 3 Q82
477-151-036-000	A	100.00	100.00	1	LOT 53 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-320-025-000	A	100.00	100.00	1	LOT 141 CALIFORNIA LEGEND UNIT 3 R-95
477-151-018-000	A	100.00	100.00	1	LOT 35 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-350-039-000	A	100.00	100.00	1	LOT 81 SILVERADO OAKS UNIT 6 PHASE A S-9
477-141-024-000	A	100.00	100.00	1	LOT 89 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-300-001-000	A	100.00	100.00	1	LOT 6 CALIFORNIA LEGEND UNIT 1 R-93
476-370-021-000	A	100.00	100.00	1	LOT 210 SILVERADO OAKS UNIT 6 PHASE B S-10
477-141-006-000	A	100.00	100.00	1	LOT 6 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-370-038-000	A	100.00	100.00	1	LOT 227 SILVERADO OAKS UNIT 6 PHASE B S-10
476-410-008-000	A	100.00	100.00	1	LOT 84 KERRY DOWNS UNIT 2 S-69
476-290-076-000	A	100.00	100.00	1	LOT 221 PROSPECTO POINT R-72
476-410-026-000	A	100.00	100.00	1	LOT 123 KERRY DOWNS UNIT 2 S-69
477-190-009-000	A	100.00	100.00	1	LOT 18 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-290-041-000	A	100.00	100.00	1	LOT 168 PROSPECTOR POINT R-72
476-370-003-000	A	100.00	100.00	1	LOT 116 SILVERADO OAKS UNIT 6 PHASE B S-10
477-160-070-000	A	100.00	100.00	1	LOT 83 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-055-000	A	100.00	100.00	1	LOT 102 PLEASANT GROVE UNIT 3 Q82
476-320-043-000	A	100.00	100.00	1	LOT 159 CALIFORNIA LEGEND UNIT 3 R-95

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477-160-034-000	A	100.00	100.00	1	LOT 47 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-037-000	A	100.00	100.00	1	LOT 84 PLEASANT GROVE UNIT 3 Q82
476-420-021-000	A	100.00	100.00	1	LOT 120 KERRY DOWNS UNIT 2 S-69
476-290-023-000	A	100.00	100.00	1	LOT 150 PROSPECTOR POINT MOR BK R PG 72
476-380-051-000	A	100.00	100.00	1	LOT 182 SILVERADO OAKS UNIT 6 PHASE B S-10
476-330-030-000	A	100.00	100.00	1	LOT 220 CALIFORNIA LEGEND UNIT 4 R-96
477-180-058-000	A	100.00	100.00	1	LOT 104 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-320-061-000	A	100.00	100.00	1	LOT 177 CALIFORNIA LEGEND UNIT 3 R-95
477-130-019-000	A	100.00	100.00	1	LOT 66 PLEASANT GROVE UNIT 3 Q82
477-010-059-000	A	100.00	100.00	1	LOT 30 PLEASANT GROVE UNIT 3 Q82
476-420-003-000	A	100.00	100.00	1	LOT 102 KERRY DOWNS UNIT 2 S-69
476-290-005-000	A	100.00	100.00	1	LOT 132 PROSPECTOR POINT MOR R-72
477-160-052-000	A	100.00	100.00	1	LOT 65 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-350-014-000	A	100.00	100.00	1	LOT 14 SILVERADO OAKS UNIT 6 PHASE A S-9
476-340-010-000	A	100.00	100.00	1	LOT 74 CALIFORNIA LEGEND UNIT 2 R-94
477-120-007-000	A	100.00	100.00	1	LOT 40 PLEASANT GROVE UNIT 3 Q82
476-300-036-000	A	100.00	100.00	1	LOT 41 CALIFORNIA LEGEND UNIT 1 R-93
476-360-008-000	A	100.00	100.00	1	LOT 22 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-026-000	A	100.00	100.00	1	LOT 40 SILVERADO OAKS UNIT 6 PHASE A S-9
476-300-018-000	A	100.00	100.00	1	LOT 23 CALIFORNIA LEGEND UNIT 1 R-93
476-350-050-000	A	100.00	100.00	1	LOT 92 SILVERADO OAKS UNIT 6 PHASE A S-9
476-330-012-000	A	100.00	100.00	1	LOT 202 CALIFORNIA LEGEND UNIT 4R-96
476-350-032-000	A	100.00	100.00	1	LOT 74 SILVERADO OAKS UNIT 6 PHASE A S-9
477-170-003-000	A	100.00	100.00	1	LOT 24 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-290-048-000	A	100.00	100.00	1	LOT 175 PROSPECTO POINT BK R PG 72
477-151-001-000	A	100.00	100.00	1	LOT 18 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-380-025-000	A	100.00	100.00	1	LOT 156 SILVERADO OAKS UNIT 6 PHASE B S-10
477-010-052-000	A	100.00	100.00	1	LOT 23 PLEASANT GROVE UNIT 3 Q82
477-180-033-000	A	100.00	100.00	1	LOT 63 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-180-015-000	A	100.00	100.00	1	LOT 45 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-160-059-000	A	100.00	100.00	1	LOT 72 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-068-000	A	100.00	100.00	1	LOT 184 CALIFORNIA LEGEND UNIT 3 R-95
476-380-007-000	A	100.00	100.00	1	LOT 138 SILVERADO OAKS UNIT 6 PHASE B S-10
476-430-007-000	A	100.00	100.00	1	LOT 7 SILVERADO OAKS UNIT 6C T-43
476-330-047-000	A	100.00	100.00	1	LOT 104 CALIFORNIA LEGEND UNIT 2 R-94
476-380-058-000	A	100.00	100.00	1	LOT 189 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-051-000	A	100.00	100.00	1	LOT 81 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-020-000	A	100.00	100.00	1	LOT 67 PLEASANT GROVE UNIT 3 Q82
477-151-044-000	A	100.00	100.00	1	LOT 61 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-130-012-000	A	100.00	100.00	1	LOT 59 PLEASANT GROVE UNIT 3 Q82
476-360-001-000	A	100.00	100.00	1	LOT 15 SILVERADO OAKS UNIT 6 PHASE A S-9
477-151-062-000	A	100.00	100.00	1	LOT 79 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-340-035-000	A	100.00	100.00	1	LOT 100 CALIFORNIA LEGEND UNIT 2R-94
477-151-026-000	A	100.00	100.00	1	LOT 43 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-310-005-000	A	100.00	100.00	1	LOT 5 CALIFORNIA LEGEND UNIT 1 R-93
477-160-006-000	A	100.00	100.00	1	LOT 6 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-151-008-000	A	100.00	100.00	1	LOT 25 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-350-029-000	A	100.00	100.00	1	LOT 71 SILVERADO OAKS UNIT 6 PHASE A S-9
476-340-017-000	A	100.00	100.00	1	LOT 81 CALIFORNIA LEGEND UNIT 2 R-94
477-160-060-000	A	100.00	100.00	1	LOT 73 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-410-036-000	A	100.00	100.00	1	POR LOT 78 KERRY DOWNS UNIT 2 S-69
476-290-031-000	A	100.00	100.00	1	LOT 158 PROSPECSTOR POINT MOR BK R PG 72
476-320-051-000	A	100.00	100.00	1	LOT 167 CALIFORNIA LEGEND UNIT 3 R-95
476-410-018-000	A	100.00	100.00	1	LOT 94 KERRY DOWNS UNIT 2 S-69
476-290-066-000	A	100.00	100.00	1	LOT 193 PROSPECTOR POINT R-72
476-380-043-000	A	100.00	100.00	1	LOT 174 SILVERADO OAKS UNIT 6 PHASE B S-10
476-370-028-000	A	100.00	100.00	1	LOT 217 SILVERADO OAKS UNIT 6 PHASE B S-10
477-141-016-000	A	100.00	100.00	1	LOT 16 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
477-170-011-000	A	100.00	100.00	1	LOT 32 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-290-013-000	A	100.00	100.00	1	LOT 140 PROSPECTOR POINT MOR BK R PG 72
476-330-020-000	A	100.00	100.00	1	LOT 210 CALIFORNIA LEGEND UNIT 4 MOR BK R PG 96
476-290-084-000	A	100.00	100.00	1	LOT 229 PROSPECTOR POINT R-72
476-380-061-000	A	100.00	100.00	1	LOT 192 SILVERADO OAKS UNIT 6 PHASE B S-10
476-320-015-000	A	100.00	100.00	1	LOT 131 CALIFORNIA LEGEND UNIT 3 R-95
477-160-024-000	A	100.00	100.00	1	LOT 37 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-130-047-000	A	100.00	100.00	1	LOT 94 PLEASANT GROVE UNIT 3 Q-82
477-160-042-000	A	100.00	100.00	1	LOT 55 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-180-068-000	A	100.00	100.00	1	LOT 114 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-010-049-000	A	100.00	100.00	1	LOT 20 PLEASANT GROVE UNIT 3 Q82
476-320-033-000	A	100.00	100.00	1	LOT 149 CALIFORNIA LEGEND UNIT 3 R-95
476-430-015-000	A	100.00	100.00	1	LOT 15 SILVERADO OAKS UNIT 6C T-43
476-420-011-000	A	100.00	100.00	1	LOT 110 KERRY DOWNS UNIT 2 S-69
476-300-026-000	A	100.00	100.00	1	LOT 31 CALIFORNIA LEGEND UNIT 1 R-93
476-350-004-000	A	100.00	100.00	1	LOT 4 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-018-000	A	100.00	100.00	1	LOT 32 SILVERADO OAKS UNIT 6 PHASE A S-9
477-130-065-000	A	100.00	100.00	1	LOT 112 PLEASANT GROVE UNIT 3 Q82
476-350-040-000	A	100.00	100.00	1	LOT 82 SILVERADO OAKS UNIT 6 PHASE A S-9
476-330-002-000	A	100.00	100.00	1	LOT 192 CALIFORNIA LEGEND UNIT 4 R-96
477-180-007-000	A	100.00	100.00	1	LOT 7 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-008-000	A	100.00	100.00	1	LOT 13 CALIFORNIA LEGEND UNIT 1 R-93
477-180-025-000	A	100.00	100.00	1	LOT 55 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-380-033-000	A	100.00	100.00	1	LOT 164 SILVERADO OAKS UNIT 6 PHASE B S-10
476-360-036-000	A	100.00	100.00	1	LOT 50 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-022-000	A	100.00	100.00	1	LOT 64 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-015-000	A	100.00	100.00	1	LOT 146 SILVERADO OAKS UNIT 6 PHASE B S-10
477-160-049-000	A	100.00	100.00	1	LOT 62 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-180-061-000	A	100.00	100.00	1	LOT 107 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-320-058-000	A	100.00	100.00	1	LOT 174 CALIFORNIA LEGEND UNIT 3 R-95
476-370-011-000	A	100.00	100.00	1	LOT 124 SILVERADO OAKS UNIT 6 PHASE B S-10
477-141-034-000	A	100.00	100.00	1	LOT 99 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
477-010-042-000	A	100.00	100.00	1	LOT 13 PLEASANT GROVE UNIT 3 Q82
477-160-067-000	A	100.00	100.00	1	LOT 80 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-180-043-000	A	100.00	100.00	1	LOT 73 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-350-057-000	A	100.00	100.00	1	LOT 99 SILVERADO OAKS UNIT 6 PHASE A S-9
476-330-019-000	A	100.00	100.00	1	LOT 209 CALIFORNIA LEGEND UNIT 4 R-96
476-380-068-000	A	100.00	100.00	1	LOT 199 SILVERADO OAKS UNIT 6 PHASE B S-10
477-130-030-000	A	100.00	100.00	1	LOT 77 PLEASANT GROVE UNIT 3 Q82
476-330-037-000	A	100.00	100.00	1	LOT 230 CALIFORNIA LEGEND UNIT 4 R-96
477-120-015-000	A	100.00	100.00	1	LOT 117 PLEASANT GROVE UNIT 3 Q82
477-010-060-000	A	100.00	100.00	1	LOT 31 PLEASANT GROVE UNIT 3 Q82
477-160-036-000	A	100.00	100.00	1	LOT 49 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-045-000	A	100.00	100.00	1	LOT 161 CALIFORNIA LEGEND UNIT 3 R-95
477-151-016-000	A	100.00	100.00	1	LOT 33 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-130-040-000	A	100.00	100.00	1	LOT 87 PLEASANT GROVE UNIT 3 Q82
476-320-063-000	A	100.00	100.00	1	LOT 179 CALIFORNIA LEGEND UNIT 3 R-95
476-330-039-000	A	100.00	100.00	1	LOT 232 CALIFORNIA LEGEND UNIT 4 R-96
477-030-056-000	A	100.00	100.00	1	LOT 1 PLEASANT GROVE UNIT 3 Q82
476-370-023-000	A	100.00	100.00	1	LOT 212 SILVERADO OAKS UNIT 6 PHASE B S-10
477-130-022-000	A	100.00	100.00	1	LOT 69 PLEASANT GROVE UNIT 3 Q82
477-160-054-000	A	100.00	100.00	1	LOT 67 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-340-025-000	A	100.00	100.00	1	LOT 90 CALIFORNIA LEGEND UNIT 2 R-94
476-320-009-000	A	100.00	100.00	1	LOT 125 CALIFORNIA LEGEND UNIT 3 R-95
476-410-024-000	A	100.00	100.00	1	LOT 121 KERRY DOWNS UNIT 2 S-69
477-120-010-000	A	100.00	100.00	1	LOT 43 PLEASANT GROVE UNIT 3 Q82
476-340-007-000	A	100.00	100.00	1	LOT 71 CALIFORNIA LEGEND UNIT 2 R-94
477-160-018-000	A	100.00	100.00	1	LOT 18 WOODCREEK OAKS UNIT #7 PHASE A R-74
477-130-004-000	A	100.00	100.00	1	LOT 51 PLEASANT GROVE UNIT 3 Q82
476-410-042-000	A	100.00	100.00	1	POR PCL 2 LOT 80 KERRY DOWNS UNIT #2 MOR S-69
476-290-038-000	A	100.00	100.00	1	LOT 165 PROSPECTOR POINT MOR BK R PG 72
476-320-027-000	A	100.00	100.00	1	LOT 143 CALIFORNIA LEGEND UNIT 3 R-95
476-380-053-000	A	100.00	100.00	1	LOT 184 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-078-000	A	100.00	100.00	1	LOT 124 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-290-021-000	A	100.00	100.00	1	LOT 148 PROSPECTOR POINT MOR BK R PG 72
476-290-056-000	A	100.00	100.00	1	LOT 183 PROSPECTOR POINT MOR BK R PG 72
476-350-030-000	A	100.00	100.00	1	LOT 72 SILVERADO OAKS UNIT 6 PHASE A S-9
477-141-026-000	A	100.00	100.00	1	LOT 91 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-420-005-000	A	100.00	100.00	1	LOT 104 KERRY DOWNS UNIT 2 S-69
476-290-003-000	A	100.00	100.00	1	LOT 130 PROSPECTOR POINT R-72
476-430-010-000	A	100.00	100.00	1	LOT 10 SILVERADO OAKS UNIT 6C T-43
476-380-071-000	A	100.00	100.00	1	LOT 202 SILVERADO OAKS UNIT 6 PHASE B S-10

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477-141-008-000	A	100.00	100.00	1	LOT 8 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-410-006-000	A	100.00	100.00	1	LOT 82 KERRY DOWNS UNIT 2 S-69
477-151-052-000	A	100.00	100.00	1	LOT 69 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-290-074-000	A	100.00	100.00	1	LOT 219 PROSPECTOR POINT MOR BK R PG 72
476-380-010-000	A	100.00	100.00	1	LOT 141 SILVERADO OAKS UNIT 6 PHASE B S-10
477-190-007-000	A	100.00	100.00	1	LOT 16 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-340-043-000	A	100.00	100.00	1	LOT 113 CALIFORNIA LEGEND UNIT 2R-94
476-370-005-000	A	100.00	100.00	1	LOT 118 SILVERADO OAKS UNIT 6 PHASE B S-10
476-320-081-000	A	100.00	100.00	1	LOT 234 CALIFORNIA LEGEND UNIT 4 MOR BK R PG 96
477-151-034-000	A	100.00	100.00	1	LOT 51 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-130-057-000	A	100.00	100.00	1	LOT 104 PLEASANT GROVE UNIT 3 Q82
476-330-032-000	A	100.00	100.00	1	LOT 222 CALIFORNIA LEGEND UNIT 4 R-96
476-300-016-000	A	100.00	100.00	1	LOT 21 CALIFORNIA LEGEND UNIT 1 R-93
477-130-029-000	A	100.00	100.00	1	LOT 76 PLEASANT GROVE UNIT 3 Q82
476-330-014-000	A	100.00	100.00	1	LOT 204 CALIFORNIA LEGEND UNIT 4 R-96
477-160-001-000	A	100.00	100.00	1	LOT 1 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-170-005-000	A	100.00	100.00	1	LOT 26 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-010-054-000	A	100.00	100.00	1	LOT 25 PLEASANT GROVE UNIT 3 Q82
477-151-059-000	A	100.00	100.00	1	LOT 76 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-350-012-000	A	100.00	100.00	1	LOT 12 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-035-000	A	100.00	100.00	1	LOT 65 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-180-017-000	A	100.00	100.00	1	LOT 47 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-120-009-000	A	100.00	100.00	1	LOT 42 PLEASANT GROVE UNIT 3 Q82
476-320-010-000	A	100.00	100.00	1	LOT 126 CALIFORNIA LEGEND UNIT 3 R-95
476-360-006-000	A	100.00	100.00	1	LOT 20 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-024-000	A	100.00	100.00	1	LOT 38 SILVERADO OAKS UNIT 6 PHASE A S-9
476-430-009-000	A	100.00	100.00	1	LOT 9 SILVERADO OAKS UNIT 6C T-43
477-180-071-000	A	100.00	100.00	1	LOT 117 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-360-042-000	A	100.00	100.00	1	LOT 56 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-047-000	A	100.00	100.00	1	LOT 89 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-053-000	A	100.00	100.00	1	LOT 83 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-380-027-000	A	100.00	100.00	1	LOT 158 SILVERADO OAKS UNIT 6 PHASE B S-10
476-310-011-000	A	100.00	100.00	1	LOT 53 CALIFORNIA LEGEND UNIT 1 R-93
476-350-065-000	A	100.00	100.00	1	LOT 107 SILVERADO OAKS UNIT 6 PHASE A S-9
476-300-034-000	A	100.00	100.00	1	LOT 39 CALIFORNIA LEGEND UNIT 1 R-93
476-380-009-000	A	100.00	100.00	1	LOT 140 SILVERADO OAKS UNIT 6 PHASE B S-10
476-310-003-000	A	100.00	100.00	1	LOT 3 CALIFORNIA LEGEND UNIT 1 R-93
476-320-017-000	A	100.00	100.00	1	LOT 133 CALIFORNIA LEGEND UNIT 3 R-95
477-160-008-000	A	100.00	100.00	1	LOT 8 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-160-026-000	A	100.00	100.00	1	LOT 39 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-050-000	A	100.00	100.00	1	LOT 97 PLEASANT GROVE UNIT 3 Q82
477-151-006-000	A	100.00	100.00	1	LOT 23 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-130-032-000	A	100.00	100.00	1	LOT 79 PLEASANT GROVE UNIT 3 Q82
476-310-021-000	A	100.00	100.00	1	LOT 63 CALIFORNIA LEGEND UNIT 1 R-93
477-160-044-000	A	100.00	100.00	1	LOT 57 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-180-010-000	A	100.00	100.00	1	LOT 40 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-320-035-000	A	100.00	100.00	1	LOT 151 CALIFORNIA LEGEND UNIT 3 R-95
476-370-013-000	A	100.00	100.00	1	LOT 126 SILVERADO OAKS UNIT 6 PHASE B S-10
477-130-014-000	A	100.00	100.00	1	LOT 61 PLEASANT GROVE UNIT 3 Q82
476-330-029-000	A	100.00	100.00	1	LOT 219 CALIFORNIA LEGEND UNIT 4 R-96
476-380-045-000	A	100.00	100.00	1	LOT 176 SILVERADO OAKS UNIT 6 PHASE B S-10
477-030-064-000	A	100.00	100.00	1	LOT 9 PLEASANT GROVE UNIT 3 Q82
477-151-060-000	A	100.00	100.00	1	LOT 77 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-290-028-000	A	100.00	100.00	1	LOT 155 PROSPECTOR POINT MOR BK R PG 72
476-370-031-000	A	100.00	100.00	1	LOT 220 SILVERADO OAKS UNIT 6 PHASE B S-10
476-380-063-000	A	100.00	100.00	1	LOT 194 SILVERADO OAKS UNIT 6 PHASE B S-10
476-340-015-000	A	100.00	100.00	1	LOT 79 CALIFORNIA LEGEND UNIT 2 R-94
476-350-020-000	A	100.00	100.00	1	LOT 62 SILVERADO OAKS UNIT 6 PHASE A S-9
476-290-046-000	A	100.00	100.00	1	LOT 173 PROSPECTOR POINT MOR BK R PG 72
477-160-062-000	A	100.00	100.00	1	LOT 75 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-071-000	A	100.00	100.00	1	LOT 185 CALIFORNIA LEGEND UNIT 4 R-96
477-151-042-000	A	100.00	100.00	1	LOT 59 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-290-064-000	A	100.00	100.00	1	LOT 191 PROSPECTOR POINT MOR BK R PG 72
476-320-053-000	A	100.00	100.00	1	LOT 169 CALIFORNIA LEGEND UNIT 3 R-95
476-410-016-000	A	100.00	100.00	1	LOT 92 KERRY DOWNS UNIT 2 S-69

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-141-018-000	A	100.00	100.00	1	LOT 83 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-420-013-000	A	100.00	100.00	1	LOT 112 KERRY DOWNS UNIT 2 S-69
476-340-033-000	A	100.00	100.00	1	LOT 98 CALIFORNIA LEGEND UNIT 2 R-94
476-290-082-000	A	100.00	100.00	1	LOT 227 PROSPECTOR POINT MOR BK R PG 72
477-151-024-000	A	100.00	100.00	1	LOT 41 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-180-009-000	A	100.00	100.00	1	LOT 9 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-330-004-000	A	100.00	100.00	1	LOT 194 CALIFORNIA LEGEND UNIT 4 R-96
477-180-027-000	A	100.00	100.00	1	LOT 57 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-006-000	A	100.00	100.00	1	LOT 11 CALIFORNIA LEGEND UNIT 1 R-93
477-130-039-000	A	100.00	100.00	1	LOT 86 PLEASANT GROVE UNIT 3 Q82
477-120-017-000	A	100.00	100.00	1	LOT 119 PLEASANT GROVE UNIT 3 Q82
477-180-063-000	A	100.00	100.00	1	LOT 109 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-010-044-000	A	100.00	100.00	1	LOT15 PLEASANT GROVE UNIT 3 Q82
476-290-011-000	A	100.00	100.00	1	LOT 138 PROSPECTOR POINT MOR BK R PG 72
476-350-002-000	A	100.00	100.00	1	LOT 2 SILVERADO OAKS UNIT 6 PHASE A S-9
476-330-022-000	A	100.00	100.00	1	LOT 212 CALIFORNIA LEGEND UNIT 4 R-96
477-170-013-000	A	100.00	100.00	1	LOT 34 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-360-016-000	A	100.00	100.00	1	LOT 30 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-045-000	A	100.00	100.00	1	LOT 75 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-350-037-000	A	100.00	100.00	1	LOT 79 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-034-000	A	100.00	100.00	1	LOT 48 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-035-000	A	100.00	100.00	1	LOT 166 SILVERADO OAKS UNIT 6 PHASE B S-10
476-350-019-000	A	100.00	100.00	1	LOT 61 SILVERADO OAKS UNIT 6 PHASE A S-9
477-151-049-000	A	100.00	100.00	1	LOT 66 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-010-062-000	A	100.00	100.00	1	LOT 33 PLEASANT GROVE UNIT 3 Q82
476-320-078-000	A	100.00	100.00	1	LOT 226 CALIFORNIA LEGEND UNIT 4 R-96
476-380-017-000	A	100.00	100.00	1	LOT 148 SILVERADO OAKS UNIT 6 PHASE B S-10
476-300-042-000	A	100.00	100.00	1	LOT 47 CALIFORNIA LEGEND UNIT 1 R-93
476-430-017-000	A	100.00	100.00	1	LOT 17 SILVERADO OAKS UNIT 6C T-43
477-180-081-000	A	100.00	100.00	1	LOT 127 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-024-000	A	100.00	100.00	1	LOT 29 CALIFORNIA LEGEND UNIT 1 R-93
477-141-001-000	A	100.00	100.00	1	LOT 1 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
477-160-069-000	A	100.00	100.00	1	LOT 82 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-350-055-000	A	100.00	100.00	1	LOT 97 SILVERADO OAKS UNIT 6 PHASE A S-9
477-141-002-000	A	100.00	100.00	1	LOT 2 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-290-081-000	A	100.00	100.00	1	LOT 226 PROSPECTOR POINT R-72
477-190-005-000	A	100.00	100.00	1	LOT 14 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-180-011-000	A	100.00	100.00	1	LOT 41 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-410-022-000	A	100.00	100.00	1	LOT 98 KERRY DOWNS UNIT 2 S-69
476-320-074-000	A	100.00	100.00	1	LOT 188 CALIFORNIA LEGEND UNIT 4 R-96
477-130-060-000	A	100.00	100.00	1	LOT 107 PLEASANT GROVE UNIT 3 Q82
476-370-007-000	A	100.00	100.00	1	LOT 120 SILVERADO OAKS UNIT 6 PHASE B S-10
476-380-046-000	A	100.00	100.00	1	LOT 177 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-027-000	A	100.00	100.00	1	LOT 154 PROSPECTOR POINT MOR BK R PG 72
477-160-047-000	A	100.00	100.00	1	LOT 60 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-042-000	A	100.00	100.00	1	LOT 89 PLEASANT GROVE UNIT 3 Q82
476-320-038-000	A	100.00	100.00	1	LOT 154 CALIFORNIA LEGEND UNIT 3 R-95
476-380-064-000	A	100.00	100.00	1	LOT 195 SILVERADO OAKS UNIT 6 PHASE B S-10
477-160-065-000	A	100.00	100.00	1	LOT 78 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-024-000	A	100.00	100.00	1	LOT 71 PLEASANT GROVE UNIT 3 Q82
476-420-007-000	A	100.00	100.00	1	LOT 106 KERRY DOWNS UNIT 2 S-69
477-030-063-000	A	100.00	100.00	1	LOT 8 PLEASANT GROVE UNIT 3 Q82
476-320-056-000	A	100.00	100.00	1	LOT 172 CALIFORNIA LEGEND UNIT 3 R-95
476-290-009-000	A	100.00	100.00	1	LOT 136 PROSPECTOR POINT MOR BK R PG 72
476-340-023-000	A	100.00	100.00	1	LOT 88 CALIFORNIA LEGEND UNIT 2 R-94
476-350-001-000	A	100.00	100.00	1	LOT 1 SILVERADO OAKS UNIT 6 PHASE A S-9
477-151-050-000	A	100.00	100.00	1	LOT 67 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-300-039-000	A	100.00	100.00	1	LOT 44 CALIFORNIA LEGEND UNIT 1 R-93
476-320-003-000	A	100.00	100.00	1	LOT 119 CALIFORNIA LEGEND UNIT 3R-95
476-340-041-000	A	100.00	100.00	1	LOT 111 CALIFORNIA LEGEND UNIT 2R-94
476-310-017-000	A	100.00	100.00	1	LOT 59 CALIFORNIA LEGEND UNIT 1 R-93
476-340-005-000	A	100.00	100.00	1	LOT 69 CALIFORNIA LEGEND UNIT 2 R-94
477-130-006-000	A	100.00	100.00	1	LOT 53 PLEASANT GROVE UNIT 3 Q82
476-320-021-000	A	100.00	100.00	1	LOT 137 CALIFORNIA LEGEND UNIT 3 R-95
477-151-032-000	A	100.00	100.00	1	LOT 49 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-151-014-000	A	100.00	100.00	1	LOT 31 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-160-012-000	A	100.00	100.00	1	LOT 12 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-290-045-000	A	100.00	100.00	1	LOT 172 PROSPECTOR POINT MOR BK R PG 72
476-360-029-000	A	100.00	100.00	1	LOT 43 SILVERADO OAKS UNIT 6 PHASE A S-9
476-290-063-000	A	100.00	100.00	1	LOT 190 PROSPECTOR POINT R-72
477-130-067-000	A	100.00	100.00	1	LOT 114 PLEASANT GROVE UNIT 3 Q82
477-141-019-000	A	100.00	100.00	1	LOT 84 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-370-025-000	A	100.00	100.00	1	LOT 214 SILVERADO OAKS UNIT 6 PHASE B S-10
476-380-021-000	A	100.00	100.00	1	LOT 152 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-046-000	A	100.00	100.00	1	LOT 76 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-049-000	A	100.00	100.00	1	LOT 96 PLEASANT GROVE UNIT 3 Q82
476-410-029-000	A	100.00	100.00	1	LOT 126 KERRY DOWNS UNIT 2 S-69
477-180-028-000	A	100.00	100.00	1	LOT 58 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-010-047-000	A	100.00	100.00	1	LOT 18 PLEASANT GROVE UNIT 3 Q82
476-380-003-000	A	100.00	100.00	1	LOT 134 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-082-000	A	100.00	100.00	1	LOT 149 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-290-010-000	A	100.00	100.00	1	LOT 137 PROSPECTOR POINT R-72
477-160-030-000	A	100.00	100.00	1	LOT 43 WOODCREEK OAKS UNIT#7 PHASE A MOR R 74
476-330-034-000	A	100.00	100.00	1	LOT 224 CALIFORNIA LEGEND UNIT 4 R-96
476-430-003-000	A	100.00	100.00	1	LOT 3 SILVERADO OAKS UNIT 6C T-43
477-180-064-000	A	100.00	100.00	1	LOT 110 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-430-021-000	A	100.00	100.00	1	LOT 21 SILVERADO OAKS UNIT 6C T-43
476-350-018-000	A	100.00	100.00	1	LOT 60 SILVERADO OAKS UNIT 6 PHASE A S-9
477-151-039-000	A	100.00	100.00	1	LOT 56 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-360-004-000	A	100.00	100.00	1	LOT 18 SILVERADO OAKS UNIT 6 PHASE A S-9
477-120-003-000	A	100.00	100.00	1	LOT 36 PLEASANT GROVE UNIT 3 Q-82
476-300-032-000	A	100.00	100.00	1	LOT 37 CALIFORNIA LEGEND UNIT 1 R-93
476-300-014-000	A	100.00	100.00	1	LOT 19 CALIFORNIA LEGEND UNIT 1 R-93
476-360-022-000	A	100.00	100.00	1	LOT 36 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-054-000	A	100.00	100.00	1	LOT 96 SILVERADO OAKS UNIT 6 PHASE A S-9
476-280-051-000	A	100.00	100.00	1	LOT 123 PROSPECTOR POINT R-72
476-330-016-000	A	100.00	100.00	1	LOT 206 CALIFORNIA LEGEND UNIT 4 R-96
476-360-040-000	A	100.00	100.00	1	LOT 54 SILVERADO OAKS UNIT 6 PHASE A S-9
477-141-020-000	A	100.00	100.00	1	LOT 85 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-350-036-000	A	100.00	100.00	1	LOT 78 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-038-000	A	100.00	100.00	1	LOT 169 SILVERADO OAKS UNIT 6 PHASE B S-10
477-170-007-000	A	100.00	100.00	1	LOT 28 WOODCREEK OAKS UNIT #7 PHASE A R-74
476-370-015-000	A	100.00	100.00	1	LOT 128 SILVERADO OAKS UNIT 6 PHASE B S-10
477-141-030-000	A	100.00	100.00	1	LOT 95 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-290-053-000	A	100.00	100.00	1	LOT 180 PROSPECTOR POINT MOR BK R PG 72
477-160-055-000	A	100.00	100.00	1	LOT 68 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-141-012-000	A	100.00	100.00	1	LOT 12 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-320-082-000	A	100.00	100.00	1	LOT 235 CALIFORNIA LEGEND UNIT 4 R-96
476-410-014-000	A	100.00	100.00	1	LOT 90 KERRY DOWNS UNIT 2 S-69
476-290-035-000	A	100.00	100.00	1	LOT 162 PROSPECTOR POINT MOR BK R PG 72
476-370-033-000	A	100.00	100.00	1	LOT 222 SILVERADO OAKS UNIT 6 PHASE B S-10
476-380-056-000	A	100.00	100.00	1	LOT 187 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-017-000	A	100.00	100.00	1	LOT 144 PROSPECTOR POINT MOR BK R PG 72
476-290-071-000	A	100.00	100.00	1	LOT 216 PROSPECTOR POINT MOR BK R PG 72
476-320-064-000	A	100.00	100.00	1	LOT 180 CALIFORNIA LEGEND UNIT 3 R-95
477-160-019-000	A	100.00	100.00	1	LOT 19 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-052-000	A	100.00	100.00	1	LOT 99 PLEASANT GROVE UNIT 3 Q82
476-320-028-000	A	100.00	100.00	1	LOT 144 CALIFORNIA LEGEND UNIT 3 R-95
476-380-074-000	A	100.00	100.00	1	LOT 205 SILVERADO OAKS UNIT 6 PHASE B S-10
477-130-034-000	A	100.00	100.00	1	LOT 81 PLEASANT GROVE UNIT 3 MOR BK Q PG 82
477-160-037-000	A	100.00	100.00	1	LOT 50 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-046-000	A	100.00	100.00	1	LOT 162 CALIFORNIA LEGEND UNIT 3 R-95
476-350-069-000	A	100.00	100.00	1	LOT 111 SILVERADO OAKS UNIT 6 PHASE A S-9
477-120-011-000	A	100.00	100.00	1	LOT 44 PLEASANT GROVE UNIT 3 Q82
477-151-057-000	A	100.00	100.00	1	LOT 74 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-300-029-000	A	100.00	100.00	1	LOT 34 CALIFORNIA LEGEND UNIT 1 R-93
477-130-016-000	A	100.00	100.00	1	LOT 63 PLEASANT GROVE UNIT 3 Q82
477-151-040-000	A	100.00	100.00	1	LOT 57 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-430-011-000	A	100.00	100.00	1	LOT 11 SILVERADO OAKS UNIT 6C T-43
476-420-015-000	A	100.00	100.00	1	LOT 114 KERRY DOWNS UNIT 2 S-69

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-151-022-000	A	100.00	100.00	1	LOT 39 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-360-039-000	A	100.00	100.00	1	LOT 53 SILVERADO OAKS UNIT 6 PHASE A S-9
477-160-002-000	A	100.00	100.00	1	LOT 2 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-310-009-000	A	100.00	100.00	1	LOT 51 CALIFORNIA LEGEND UNIT 1 R-93
476-340-031-000	A	100.00	100.00	1	LOT 96 CALIFORNIA LEGEND UNIT 2 R-94
477-151-004-000	A	100.00	100.00	1	LOT 21 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-380-011-000	A	100.00	100.00	1	LOT 142 SILVERADO OAKS UNIT 6 PHASE B S-10
476-340-013-000	A	100.00	100.00	1	LOT 77 CALIFORNIA LEGEND UNIT 2 R-94
477-180-056-000	A	100.00	100.00	1	LOT 93 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-330-024-000	A	100.00	100.00	1	LOT 214 CALIFORNIA LEGEND UNIT 4 R-96
476-410-039-000	A	100.00	100.00	1	POR LOT 79 KERRY DOWN UNIT 2 S-69
477-180-038-000	A	100.00	100.00	1	LOT 68 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-059-000	A	100.00	100.00	1	LOT 106 PLEASANT GROVE UNIT 3 Q82
476-320-011-000	A	100.00	100.00	1	LOT 127 CALIFORNIA LEGEND UNIT 3R-95
476-290-078-000	A	100.00	100.00	1	LOT 223 PROSPECTOR POINT MOR BK R PG 72
477-160-020-000	A	100.00	100.00	1	LOT 20 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-350-062-000	A	100.00	100.00	1	LOT 104 SILVERADO OAKS UNIT 6 PHASE A S-9
477-010-055-000	A	100.00	100.00	1	LOT 26 PLEASANT GROVE UNIT 3 Q82
477-180-074-000	A	100.00	100.00	1	LOT 120 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-040-000	A	100.00	100.00	1	LOT 45 CALIFORNIA LEGEND UNIT 1 R-93
476-350-008-000	A	100.00	100.00	1	LOT 8 SILVERADO OAKS UNIT 6 PHASE A S-9
477-151-029-000	A	100.00	100.00	1	LOT 46 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-300-022-000	A	100.00	100.00	1	LOT 27 CALIFORNIA LEGEND UNIT 1 R-93
476-360-014-000	A	100.00	100.00	1	LOT 28 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-003-000	A	100.00	100.00	1	LOT 3 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-330-006-000	A	100.00	100.00	1	LOT 196 CALIFORNIA LEGEND UNIT 4 R-96
476-350-044-000	A	100.00	100.00	1	LOT 86 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-032-000	A	100.00	100.00	1	LOT 46 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-021-000	A	100.00	100.00	1	LOT 51 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-004-000	A	100.00	100.00	1	LOT 9 CALIFORNIA LEGEND UNIT 1 R-93
476-380-028-000	A	100.00	100.00	1	LOT 159 SILVERADO OAKS UNIT 6 PHASE B S-10
476-310-010-000	A	100.00	100.00	1	LOT 52 CALIFORNIA LEGEND UNIT 1 R-93
476-350-026-000	A	100.00	100.00	1	LOT 68 SILVERADO OAKS UNIT 6 PHASE A S-9
476-290-025-000	A	100.00	100.00	1	LOT 152 PROSPECTOR POINT MOR BK R PG 72
476-360-020-000	A	100.00	100.00	1	LOT 34 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-066-000	A	100.00	100.00	1	LOT 197 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-043-000	A	100.00	100.00	1	LOT 170 PROSPECTOR POINT MOR BK R PG 72
477-141-022-000	A	100.00	100.00	1	LOT 87 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-290-061-000	A	100.00	100.00	1	LOT 188 PROSPECTOR POINT MOR BK R PG 72
476-420-009-000	A	100.00	100.00	1	LOT 108 KERRY DOWNS UNIT 2 S-69
476-290-007-000	A	100.00	100.00	1	LOT 134 PROSPECTOR POINT MOR R-72
476-340-038-000	A	100.00	100.00	1	LOT 108 CALIFORNIA LEGEND UNIT 2R-94
477-141-004-000	A	100.00	100.00	1	LOT 4 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-310-015-000	A	100.00	100.00	1	LOT 57 CALIFORNIA LEGEND UNIT 1 R-93
477-190-003-000	A	100.00	100.00	1	LOT 12 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-130-062-000	A	100.00	100.00	1	LOT 109 PLEASANT GROVE UNIT 3 Q82
476-320-076-000	A	100.00	100.00	1	LOT 190 CALIFORNIA LEGEND UNIT 4 R-96
476-370-009-000	A	100.00	100.00	1	LOT 122 SILVERADO OAKS UNIT 6 PHASE B S-10
477-151-047-000	A	100.00	100.00	1	LOT 64 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-300-030-000	A	100.00	100.00	1	LOT 35 CALIFORNIA LEGEND UNIT 1 R-93
476-350-059-000	A	100.00	100.00	1	LOT 101 SILVERADO OAKS UNIT 6 PHASE A S-9
477-160-032-000	A	100.00	100.00	1	LOT 45 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-170-010-000	A	100.00	100.00	1	LOT 31 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-041-000	A	100.00	100.00	1	LOT 157 CALIFORNIA LEGEND UNIT 3 R-95
477-130-044-000	A	100.00	100.00	1	LOT 91 PLEASANT GROVE UNIT 3 Q82
477-151-012-000	A	100.00	100.00	1	LOT 29 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-330-001-000	A	100.00	100.00	1	LOT 191 CALIFORNIA LEGEND UNIT 4 R-96
477-130-069-000	A	100.00	100.00	1	LOT 116 PLEASANT GROVE UNIT 3 Q82
477-151-065-000	A	100.00	100.00	1	LOT 82 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-030-061-000	A	100.00	100.00	1	LOT 6 PLEASANT GROVE UNIT 3 Q82
477-160-050-000	A	100.00	100.00	1	LOT 63 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-370-027-000	A	100.00	100.00	1	LOT 216 SILVERADO OAKS UNIT 6 PHASE B S-10
477-130-026-000	A	100.00	100.00	1	LOT 73 PLEASANT GROVE UNIT 3 Q82
476-410-019-000	A	100.00	100.00	1	LOT 95 KERRY DOWNS UNIT 2 S-69
476-340-021-000	A	100.00	100.00	1	LOT 85 CALIFORNIA LEGEND UNIT 2 R-94

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-010-039-000	A	100.00	100.00	1	LOT 10 PLEASANT GROVE UNIT 3 Q82
476-320-005-000	A	100.00	100.00	1	LOT 121 CALIFORNIA LEGEND UNIT 3R-95
477-160-014-000	A	100.00	100.00	1	LOT 14 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-008-000	A	100.00	100.00	1	LOT 55 PLEASANT GROVE UNIT 3 Q82
477-141-029-000	A	100.00	100.00	1	LOT 94 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-320-023-000	A	100.00	100.00	1	LOT 139 CALIFORNIA LEGEND UNIT 3 R-95
476-340-003-000	A	100.00	100.00	1	LOT 67 CALIFORNIA LEGEND UNIT 2 R-94
476-430-005-000	A	100.00	100.00	1	LOT 5 SILVERADO OAKS UNIT 6C T-43
476-360-037-000	A	100.00	100.00	1	LOT 51 SILVERADO OAKS UNIT 6 PHASE A S-9
476-420-010-000	A	100.00	100.00	1	LOT 109 KERRY DOWNS UNIT 2 S-69
476-350-070-000	A	100.00	100.00	1	LOT 112 SILVERADO OAKS UNIT 6 PHASE A S-9
476-350-052-000	A	100.00	100.00	1	LOT 94 SILVERADO OAKS UNIT 6 PHASE A S-9
476-360-019-000	A	100.00	100.00	1	LOT 33 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-066-000	A	100.00	100.00	1	LOT 112 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-350-034-000	A	100.00	100.00	1	LOT 76 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-023-000	A	100.00	100.00	1	LOT 154 SILVERADO OAKS UNIT 6 PHASE B S-10
476-290-068-000	A	100.00	100.00	1	LOT 195 PROSPECTOR POINT MOR BK R PG 72
476-380-005-000	A	100.00	100.00	1	LOT 136 SILVERADO OAKS UNIT 6 PHASE B S-10
477-151-030-000	A	100.00	100.00	1	LOT 47 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-300-012-000	A	100.00	100.00	1	LOT 17 CALIFORNIA LEGEND UNIT 1 R-93
476-330-036-000	A	100.00	100.00	1	LOT 229 CALIFORNIA LEGEND UNIT 4 R-96
476-330-018-000	A	100.00	100.00	1	LOT 208 CALIFORNIA LEGEND UNIT 4 R-96
476-280-053-000	A	100.00	100.00	1	LOT 125 PROSPECTOR POINT R-72
476-370-010-000	A	100.00	100.00	1	LOT 123 SILVERADO OAKS UNIT 6 PHASE B S-10
476-320-048-000	A	100.00	100.00	1	LOT 164 CALIFORNIA LEGEND UNIT 3 R-95
477-160-039-000	A	100.00	100.00	1	LOT 52 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-170-009-000	A	100.00	100.00	1	LOT 30 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-350-016-000	A	100.00	100.00	1	LOT 58 SILVERADO OAKS UNIT 6 PHASE A S-9
477-180-031-000	A	100.00	100.00	1	LOT 61 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-010-050-000	A	100.00	100.00	1	LOT 21 PLEASANT GROVE UNIT 3 Q82
477-180-013-000	A	100.00	100.00	1	LOT 43 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-410-020-000	A	100.00	100.00	1	LOT 96 KERRY DOWNS UNIT 2 S-69
476-360-002-000	A	100.00	100.00	1	LOT 16 SILVERADO OAKS UNIT 6 PHASE A S-9
477-120-005-000	A	100.00	100.00	1	LOT 38 PLEASANT GROVE UNIT 3 Q82
476-360-030-000	A	100.00	100.00	1	LOT 44 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-076-000	A	100.00	100.00	1	LOT 207 SILVERADO OAKS UNIT 6 PHASE B S-10
476-340-028-000	A	100.00	100.00	1	LOT 93 CALIFORNIA LEGEND UNIT 2 R-94
476-350-067-000	A	100.00	100.00	1	LOT 109 SILVERADO OAKS UNIT 6 PHASE A S-9
477-151-055-000	A	100.00	100.00	1	LOT 72 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-290-051-000	A	100.00	100.00	1	LOT 178 PROSPECTOR POINT R-72
477-141-014-000	A	100.00	100.00	1	LOT 14 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-410-012-000	A	100.00	100.00	1	LOT 88 KERRY DOWNS UNIT 2 S-69
477-151-037-000	A	100.00	100.00	1	LOT 54 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-160-057-000	A	100.00	100.00	1	LOT 70 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-350-049-000	A	100.00	100.00	1	LOT 91 SILVERADO OAKS UNIT 6 PHASE A S-9
476-420-017-000	A	100.00	100.00	1	LOT 116 KERRY DOWNS UNIT 2 S-69
477-151-019-000	A	100.00	100.00	1	LOT 36 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-340-046-000	A	100.00	100.00	1	LOT 116 CALIFORNIA LEGEND UNIT 2 MOR R-94
476-300-020-000	A	100.00	100.00	1	LOT 25 CALIFORNIA LEGEND UNIT 1 R-93
476-320-066-000	A	100.00	100.00	1	LOT 182 CALIFORNIA LEGEND UNIT 3 R-95
476-310-007-000	A	100.00	100.00	1	LOT 49 CALIFORNIA LEGEND UNIT 1 R-93
476-320-013-000	A	100.00	100.00	1	LOT 129 CALIFORNIA LEGEND UNIT 3 R-95
477-160-004-000	A	100.00	100.00	1	LOT 4 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-054-000	A	100.00	100.00	1	LOT 101 PLEASANT GROVE UNIT 3 Q82
477-151-002-000	A	100.00	100.00	1	LOT 19 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
477-160-022-000	A	100.00	100.00	1	LOT 35 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-130-036-000	A	100.00	100.00	1	LOT 83 PLEASANT GROVE UNIT 3 Q82
477-160-040-000	A	100.00	100.00	1	LOT 53 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
476-320-031-000	A	100.00	100.00	1	LOT 147 CALIFORNIA LEGEND UNIT 3 R-95
476-370-017-000	A	100.00	100.00	1	LOT 130 SILVERADO OAKS UNIT 6 PHASE B S-10
477-130-018-000	A	100.00	100.00	1	LOT 65 PLEASANT GROVE UNIT 3 Q82
477-180-048-000	A	100.00	100.00	1	LOT 78 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-290-033-000	A	100.00	100.00	1	LOT 160 PROSPECTOR POINT MOR BK R PG 72
476-380-041-000	A	100.00	100.00	1	LOT 172 SILVERADO OAKS UNIT 6 PHASE B S-10
476-370-035-000	A	100.00	100.00	1	LOT 224 SILVERADO OAKS UNIT 6 PHASE B S-10

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476-290-015-000	A	100.00	100.00	1	LOT 142 PROSPECTOR POINT MOR BK R PG 72
476-350-042-000	A	100.00	100.00	1	LOT 84 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-031-000	A	100.00	100.00	1	LOT 162 SILVERADO OAKS UNIT 6 PHASE B S-10
477-010-057-000	A	100.00	100.00	1	LOT 28 PLEASANT GROVE UNIT 3 Q82
476-350-024-000	A	100.00	100.00	1	LOT 66 SILVERADO OAKS UNIT 6 PHASE A S-9
476-380-013-000	A	100.00	100.00	1	LOT 144 SILVERADO OAKS UNIT 6 PHASE B S-10
476-340-011-000	A	100.00	100.00	1	LOT 75 CALIFORNIA LEGEND UNIT 2 R-94
477-180-076-000	A	100.00	100.00	1	LOT 122 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-037-000	A	100.00	100.00	1	LOT 42 CALIFORNIA LEGEND UNIT 1 R-93
476-430-013-000	A	100.00	100.00	1	LOT 13 SILVERADO OAKS UNIT 6C T-43
476-290-058-000	A	100.00	100.00	1	LOT 185 PROSPECTOR POINT MOR BK R PG 72
476-350-060-000	A	100.00	100.00	1	LOT 102 SILVERADO OAKS UNIT 6 PHASE A S-9
476-300-019-000	A	100.00	100.00	1	LOT 24 CALIFORNIA LEGEND UNIT 1 R-93
477-151-020-000	A	100.00	100.00	1	LOT 37 WOODCREEK OAKS UNIT NO 6 T-28 (AMENDED MAP)
476-330-008-000	A	100.00	100.00	1	LOT 198 CALIFORNIA LEGEND UNIT 4 R-96
477-180-005-000	A	100.00	100.00	1	LOT 5 WOODCREEK OAKS VILLAGE 8 UNIT A MOR S-3
477-180-023-000	A	100.00	100.00	1	LOT 53 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-300-002-000	A	100.00	100.00	1	LOT 7 CALIFORNIA LEGEND UNIT 1 R-93
476-330-044-000	A	100.00	100.00	1	LOT 101 CALIFORNIA LEGEND UNIT 2R-94
477-160-029-000	A	100.00	100.00	1	LOT 42 WOODCREEK OAKS UNIT #7 PHASE A MOR R-74
477-120-013-000	A	100.00	100.00	1	LOT 46 PLEASANT GROVE UNIT 3 Q82
477-130-001-000	A	100.00	100.00	1	LOT 48 PLEASANT GROVE UNIT 3 Q82
477-141-032-000	A	100.00	100.00	1	LOT 97 WOODCREEK OAKS UNIT #6 T-28 (AMENDED MAP)
476-410-030-000	A	100.00	100.00	1	LOT 127 KERRY DOWNS UNIT 2 S-69
477-010-040-000	A	100.00	100.00	1	LOT 11 PLEASANT GROVE UNIT 3 Q82
476-350-006-000	A	100.00	100.00	1	LOT 6 SILVERADO OAKS UNIT 6 PHASE A S-9
476-330-026-000	A	100.00	100.00	1	LOT 216 CALIFORNIA LEGEND UNIT 4 R-96
477-030-058-000	A	100.00	100.00	1	LOT 3 PLEASANT GROVE UNIT 3 Q82
476-380-048-000	A	100.00	100.00	1	LOT 179 SILVERADO OAKS UNIT 6 PHASE B S-10
477-180-041-000	A	100.00	100.00	1	LOT 71 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
476-360-012-000	A	100.00	100.00	1	LOT 26 SILVERADO OAKS UNIT 6 PHASE A S-9
480-070-020-000	A	100.00	100.00	1	LOT 79 SILVERADO OAKS UNIT NO 7 PH A T-77
477-280-028-000	A	100.00	100.00	1	LOT 151 WOODCREEK OAKS UNIT 9-D S-16
477-480-003-000	A	100.00	100.00	1	LOT 47 WOODCREEK OAKS VILL 4 PHASE B T-66
477-310-048-000	A	100.00	100.00	1	LOT 237 WOODCREEK OAKS UNIT 10 S-22
477-310-066-000	A	100.00	100.00	1	LOT 255 WOODCREEK OAKS UNIT 10 S-22
477-350-014-000	A	100.00	100.00	1	LOT 132 WOODCREEK OAKS VILLAGE 7C S-33
477-540-019-000	A	100.00	100.00	1	LOT 260 WOODCREEK OAKS VILL 3 T-67
480-080-014-000	A	100.00	100.00	1	LOT 408 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-510-005-000	A	100.00	100.00	1	LOT 306 WOODCREEK OAKS VILL 3 T-67
477-270-034-000	A	100.00	100.00	1	LOT 118 WOODCREEK OAKS UNIT 9-C S-15
480-020-060-000	A	100.00	100.00	1	LOT 140 SILVERADO VILLAGE UNIT 2 PH B S-39
477-360-008-000	A	100.00	100.00	1	LOT 100 RIDGEWOOD UNIT 2 S-40
477-500-011-000	A	100.00	100.00	1	LOT 71 WOODCREEK OAKS VILL 4-PH B T-66
477-360-044-000	A	100.00	100.00	1	LOT 136 RIDGEWOOD UNIT 2 S-40
477-530-029-000	A	100.00	100.00	1	LOT 287 WOODCREEK OAKS VILL 3 T-67
480-020-042-000	A	100.00	100.00	1	LOT 122 SILVERADO VILLAGE UNIT 2 PH B S-39
480-080-032-000	A	100.00	100.00	1	LOT 424 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-340-020-000	A	100.00	100.00	1	LOT 103 WOODCREEK OAKS VILLAGE 7B S-32
477-300-018-000	A	100.00	100.00	1	LOT 278 WOODCREEK OAKS UNIT 10 S-22
477-650-028-000	A	100.00	100.00	1	LOT 139 WOODCREEK OAKS UNIT #1 PH C MOR U-75
480-030-018-000	A	100.00	100.00	1	LOT 99 SILVERADO OAKS UNIT NO 7 PH A T-77
477-390-019-000	A	100.00	100.00	1	LOT 43 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-010-030-000	A	100.00	100.00	1	LOT 30 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-200-039-000	A	100.00	100.00	1	LOT 182 RIDGEWOOD UNIT 3 MOR S-41
477-350-032-000	A	100.00	100.00	1	LOT 150 WOODCREEK OAKS VILLAGE 7C S-33
480-020-024-000	A	100.00	100.00	1	LOT 104 SILVERADO VILLAGE UNIT 2 PH B S-39
477-360-026-000	A	100.00	100.00	1	LOT 118 RIDGEWOOD UNIT 2 S-40
480-090-044-000	A	100.00	100.00	1	LOT 397B SILVERADO OAKS UNIT 7 PH F MOR T-82
477-450-009-000	A	100.00	100.00	1	LOT 9 WOODCREEK OAKS VILL 4-PH A T-65
480-040-026-000	A	100.00	100.00	1	LOT 93 SILVERADO OAKS UNIT NO 7 PH A T-77
477-570-031-000	A	100.00	100.00	1	LOT 440 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-220-003-000	A	100.00	100.00	1	LOT 22 RIDGEWOOD UNIT 1 R-87
477-390-002-000	A	100.00	100.00	1	LOT 2 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-210-069-000	A	100.00	100.00	1	LOT 260 RIDGEWOOD UNIT 4 S-100

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477-360-062-000	A	100.00	100.00	1	LOT 154 RIDGEWOOD UNIT 2 S-40
477-190-018-000	A	100.00	100.00	1	LOT 27 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-610-020-000	A	100.00	100.00	1	LOT 182 WOODCREEK OAKS VILL 2 U-20
477-570-013-000	A	100.00	100.00	1	LOT 334 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-380-007-000	A	100.00	100.00	1	LOT 140 WOODCREEK OAKS VILLAGE #12 PH C S-52
480-020-006-000	A	100.00	100.00	1	LOT 86 SILVERADO VILLAGE UNIT 2 PH B S-39
477-630-008-000	A	100.00	100.00	1	LOT 146 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-600-015-000	A	100.00	100.00	1	LOT 196 WOODCREEK OAKS VILL 2 U-20
477-300-036-000	A	100.00	100.00	1	LOT 304 WOODCREEK OAKS UNIT 10 S-22
477-210-008-000	A	100.00	100.00	1	LOT 46 RIDGEWOOD UNIT 1 R-87
477-270-016-000	A	100.00	100.00	1	LOT 100 WOODCREEK OAKS UNIT 9-C S-15
477-190-054-000	A	100.00	100.00	1	LOT 135 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-260-029-000	A	100.00	100.00	1	LOT 158 WOODCREEK OAKS UNIT 9-C S-15
477-560-018-000	A	100.00	100.00	1	LOT 18 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-490-015-000	A	100.00	100.00	1	LOT 85 WOODCREEK OAKS VILL 4 PHASE B T-66
477-410-001-000	A	100.00	100.00	1	LOT 45 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-430-025-000	A	100.00	100.00	1	LOT 455 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-240-005-000	A	100.00	100.00	1	LOT 33 WOODCREEK OAKS UNIT 9-A S-13
477-190-036-000	A	100.00	100.00	1	LOT 89 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-240-023-000	A	100.00	100.00	1	LOT 173 WOODCREEK OAKS UNIT 9-A S-13
477-540-002-000	A	100.00	100.00	1	LOT 239 WOODCREEK OAKS VILL 3 T-67
480-090-001-000	A	100.00	100.00	1	LOT 354 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-250-010-000	A	100.00	100.00	1	LOT 10 WOODCREEK OAKS UNIT 9-B S-14
480-050-003-000	A	100.00	100.00	1	LOT 3 SILVERADO OAKS UNIT NO 7 PH A T-77
477-400-014-000	A	100.00	100.00	1	LOT 29 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-040-008-000	A	100.00	100.00	1	LOT 43 SILVERADO OAKS UNIT NO 7 PH A T-77
477-430-007-000	A	100.00	100.00	1	LOT 406 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-280-011-000	A	100.00	100.00	1	LOT 50 WOODCREEK OAKS UNIT 9-D S-16
477-320-035-000	A	100.00	100.00	1	LOT 45 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-020-067-000	A	100.00	100.00	1	LOT 147 SILVERADO VILLAGE UNIT 2 PH B S-39
477-320-017-000	A	100.00	100.00	1	LOT 27 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-550-024-000	A	100.00	100.00	1	LOT 59 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-070-019-000	A	100.00	100.00	1	LOT 78 SILVERADO OAKS UNIT NO 7 PH A T-77
480-020-049-000	A	100.00	100.00	1	LOT 129 SILVERADO VILLAGE UNIT 2 PH B S-39
477-530-004-000	A	100.00	100.00	1	LOT 237 WOODCREEK OAKS VILL 3 T-67
477-310-041-000	A	100.00	100.00	1	LOT 230 WOODCREEK OAKS UNIT 10 S-22
477-200-014-000	A	100.00	100.00	1	LOT 14 RIDGEWOOD UNIT 1 R-87
477-660-051-000	A	100.00	100.00	1	LOT 187 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-420-066-000	A	100.00	100.00	1	LOT 430 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-530-022-000	A	100.00	100.00	1	LOT 280 WOODCREEK OAKS VILL 3 T-67
477-340-019-000	A	100.00	100.00	1	LOT 102 WOODCREEK OAKS VILLAGE 7B S-32
477-310-023-000	A	100.00	100.00	1	LOT 212 WOODCREEK OAKS UNIT 10 S-22
477-660-033-000	A	100.00	100.00	1	LOT 169 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-370-013-000	A	100.00	100.00	1	LOT 89 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-200-032-000	A	100.00	100.00	1	LOT 175 RIDGEWOOD UNIT 3 MOR S-41
477-470-008-000	A	100.00	100.00	1	LOT 31 WOODCREEK OAKS VILL 4-PH A T-65
477-350-039-000	A	100.00	100.00	1	LOT 157 WOODCREEK OAKS VILLAGE 7C S-33
480-030-001-000	A	100.00	100.00	1	LOT 48 SILVERADO OAKS UNIT NO 7 PH A T-77
477-610-002-000	A	100.00	100.00	1	LOT 164 WOODCREEK OAKS VILL 2 U-20
477-660-015-000	A	100.00	100.00	1	LOT 118 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-300-001-000	A	100.00	100.00	1	LOT 261 WOODCREEK OAKS UNIT 10 S-22
477-390-020-000	A	100.00	100.00	1	LOT 44 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-640-016-000	A	100.00	100.00	1	LOT 164 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-200-050-000	A	100.00	100.00	1	LOT 193 RIDGEWOOD UNIT 3 MOR S-41
477-370-031-000	A	100.00	100.00	1	LOT 107 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-380-025-000	A	100.00	100.00	1	LOT 158 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-310-005-000	A	100.00	100.00	1	LOT 194 WOODCREEK OAKS UNIT 10 S-22
477-230-043-000	A	100.00	100.00	1	POR LOT 75 RIDGEWOOD UNIT 1 R-87
477-650-011-000	A	100.00	100.00	1	LOT 122 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-210-044-000	A	100.00	100.00	1	LOT 235 RIDGEWOOD UNIT 4 S-100
480-010-012-000	A	100.00	100.00	1	LOT 12 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-230-007-000	A	100.00	100.00	1	LOT 29 RIDGEWOOD UNIT 1 R-87
477-380-043-000	A	100.00	100.00	1	LOT 176 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-210-062-000	A	100.00	100.00	1	LOT 253 RIDGEWOOD UNIT 4 S-100
477-360-069-000	A	100.00	100.00	1	LOT 161 RIDGEWOOD UNIT 2 S-40

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477-410-036-000	A	100.00	100.00	1	POR LOT 50 WOODCREEK OAKS VILLAGE 8 UNT B MOR S-74
477-580-017-000	A	100.00	100.00	1	LOT 97 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-260-004-000	A	100.00	100.00	1	LOT 72 WOODCREEK OAKS UNIT 9-C S-15
480-010-047-000	A	100.00	100.00	1	LOT 47 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-440-033-000	A	100.00	100.00	1	LOT 33 RIDGEWOOD OAKS UNIT NO 5 T-59
477-440-015-000	A	100.00	100.00	1	LOT 15 RIDGEWOOD OAKS UNIT NO 5 T-59
477-380-061-000	A	100.00	100.00	1	LOT 124 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-420-031-000	A	100.00	100.00	1	LOT 380 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-590-012-000	A	100.00	100.00	1	LOT 79 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-230-025-000	A	100.00	100.00	1	LOT 59 RIDGEWOOD UNIT 1 R-87
477-250-009-000	A	100.00	100.00	1	LOT 9 WOODCREEK OAKS UNIT 9-B S-14
477-610-019-000	A	100.00	100.00	1	LOT 181 WOODCREEK OAKS VILL 2 U-20
477-620-014-000	A	100.00	100.00	1	LOT 212 WOODCREEK OAKS VILL 2 U-20
477-450-010-000	A	100.00	100.00	1	LOT 42 WOODCREEK OAKS VILL 4-PH A T-65
480-010-065-000	A	100.00	100.00	1	LOT 65 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-340-002-000	A	100.00	100.00	1	LOT 85 WOODCREEK OAKS VILLAGE 7B S-32
480-090-018-000	A	100.00	100.00	1	LOT 371 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-320-053-000	A	100.00	100.00	1	POR LOT 25 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-070-002-000	A	100.00	100.00	1	LOT 61 SILVERADO OAKS UNIT NO 7 PH A T-77
477-260-022-000	A	100.00	100.00	1	LOT 90 WOODCREEK OAKS UNIT 9-C S-15
477-410-018-000	A	100.00	100.00	1	LOT 67 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-420-013-000	A	100.00	100.00	1	LOT 362 WOODCREEK OAKS VILLAGE II UNIT A T-7
480-060-007-000	A	100.00	100.00	1	LOT 27 SILVERADO OAKS UNIT NO 7 PH A T-77
477-560-001-000	A	100.00	100.00	1	LOT 1 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-550-006-000	A	100.00	100.00	1	LOT 39 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-290-015-000	A	100.00	100.00	1	LOT 127 WOODCREEK OAKS UNIT 9-D S-16
477-250-027-000	A	100.00	100.00	1	LOT 29 WOODCREEK OAKS UNIT 9-B S-14
480-030-026-000	A	100.00	100.00	1	LOT 113 SILVERADO OAKS UNIT NO 7 PH A T-77
477-360-018-000	A	100.00	100.00	1	LOT 110 RIDGEWOOD UNIT 2 S-40
477-310-076-000	A	100.00	100.00	1	LOT 294 WOODCREEK OAKS UNIT 10 S-22
477-350-004-000	A	100.00	100.00	1	LOT 122 WOODCREEK OAKS VILLAGE 7C S-33
477-490-007-000	A	100.00	100.00	1	LOT 77 WOODCREEK OAKS VILL 4 PHASE B T-66
477-300-026-000	A	100.00	100.00	1	LOT 286 WOODCREEK OAKS UNIT 10 S-22
480-070-030-000	A	100.00	100.00	1	LOT 89 SILVERADO OAKS UNIT NO 7 PH A T-77
477-430-015-000	A	100.00	100.00	1	LOT 414 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-190-062-000	A	100.00	100.00	1	LOT 143 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-520-009-000	A	100.00	100.00	1	LOT 294 WOODCREEK OAKS VILL 3 T-67
477-270-024-000	A	100.00	100.00	1	LOT 108 WOODCREEK OAKS UNIT 9-C S-15
477-350-040-000	A	100.00	100.00	1	LOT 158 WOODCREEK OAKS VILLAGE 7C S-33
477-300-008-000	A	100.00	100.00	1	LOT 268 WOODCREEK OAKS UNIT 10 S-22
477-340-030-000	A	100.00	100.00	1	LOT 113 WOODCREEK OAKS VILLAGE 7B S-32
477-330-002-000	A	100.00	100.00	1	LOT 2 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-360-054-000	A	100.00	100.00	1	LOT 146 RIDGEWOOD UNIT 2 S-40
477-370-048-000	A	100.00	100.00	1	LOT 133 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-080-022-000	A	100.00	100.00	1	LOT 414 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-020-052-000	A	100.00	100.00	1	LOT 132 SILVERADO VILLAGE UNIT 2 PH B S-39
480-020-034-000	A	100.00	100.00	1	LOT 114 SILVERADO VILLAGE UNIT 2 PH B S-39
477-360-036-000	A	100.00	100.00	1	LOT 128 RIDGEWOOD UNIT 2 S-40
477-350-022-000	A	100.00	100.00	1	LOT 140 WOODCREEK OAKS VILLAGE 7C S-33
477-600-007-000	A	100.00	100.00	1	LOT 188 WOODCREEK OAKS VILL 2 U-20
480-010-020-000	A	100.00	100.00	1	LOT 20 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-510-013-000	A	100.00	100.00	1	LOT 314 WOODCREEK OAKS VILL 3 T-67
477-470-001-000	A	100.00	100.00	1	LOT 16 WOODCREEK OAKS VILL 4-PH A T-65
477-320-010-000	A	100.00	100.00	1	LOT 20 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-200-029-000	A	100.00	100.00	1	LOT 172 RIDGEWOOD UNIT 3 MOR S-41
480-030-008-000	A	100.00	100.00	1	LOT 55 SILVERADO OAKS UNIT NO 7 PH A T-77
477-650-021-000	A	100.00	100.00	1	LOT 132 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-650-038-000	A	100.00	100.00	1	LOT 149 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-390-012-000	A	100.00	100.00	1	LOT 12 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-080-057-000	A	100.00	100.00	1	POR LT 431B SILVERADO OAKS UNIT 7 PH F MOR T-82
477-240-013-000	A	100.00	100.00	1	LOT 163 WOODCREEK OAKS UNIT 9-A S-13
477-650-003-000	A	100.00	100.00	1	LOT 114 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-460-014-000	A	100.00	100.00	1	LOT 26 WOODCREEK OAKS VILL 4-PH A T-65
477-560-026-000	A	100.00	100.00	1	LOT 26 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-570-041-000	A	100.00	100.00	1	LOT 450 WOODCREEK OAKS VILLAGE 11 UNIT C T-80

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-630-018-000	A	100.00	100.00	1	LOT 156 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-240-031-000	A	100.00	100.00	1	LOT 181 WOODCREEK OAKS UNIT 9-A S-13
477-610-030-000	A	100.00	100.00	1	LOT 233 WOODCREEK OAKS VILL 2 U-20
480-020-016-000	A	100.00	100.00	1	LOT 96 SILVERADO VILLAGE UNIT 2 PH B S-39
477-400-022-000	A	100.00	100.00	1	LOT 37 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-420-048-000	A	100.00	100.00	1	LOT 397 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-330-019-000	A	100.00	100.00	1	LOT 66 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-190-026-000	A	100.00	100.00	1	LOT 35 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-560-008-000	A	100.00	100.00	1	LOT 8 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-360-072-000	A	100.00	100.00	1	LOT 164 RIDGEWOOD UNIT 2 S-40
477-570-005-000	A	100.00	100.00	1	LOT 326 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-280-003-000	A	100.00	100.00	1	LOT 42 WOODCREEK OAKS UNIT 9-D S-16
477-570-023-000	A	100.00	100.00	1	LOT 344 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-210-018-000	A	100.00	100.00	1	LOT 90 RIDGEWOOD UNIT 1 R-87
477-190-044-000	A	100.00	100.00	1	LOT 100 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-280-021-000	A	100.00	100.00	1	LOT 144 WOODCREEK OAKS UNIT 9-D S-16
480-040-018-000	A	100.00	100.00	1	LOT 112 SILVERADO OAKS UNIT NO 7 PH A T-77
477-270-006-000	A	100.00	100.00	1	LOT 65 WOODCREEK OAKS UNIT 9-C S-15
477-400-004-000	A	100.00	100.00	1	LOT 19 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-300-044-000	A	100.00	100.00	1	LOT 312 WOODCREEK OAKS UNIT 10 S-22
477-540-012-000	A	100.00	100.00	1	LOT 249 WOODCREEK OAKS VILL 3 T-67
477-580-010-000	A	100.00	100.00	1	LOT 90 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-360-001-000	A	100.00	100.00	1	LOT 93 RIDGEWOOD UNIT 2 S-40
477-520-010-000	A	100.00	100.00	1	LOT 295 WOODCREEK OAKS VILL 3 T-67
477-310-031-000	A	100.00	100.00	1	LOT 220 WOODCREEK OAKS UNIT 10 S-22
477-370-005-000	A	100.00	100.00	1	LOT 81 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-060-015-000	A	100.00	100.00	1	LOT 35 SILVERADO OAKS UNIT NO 7 PH A T-77
477-310-013-000	A	100.00	100.00	1	LOT 202 WOODCREEK OAKS UNIT 10 S-22
477-370-023-000	A	100.00	100.00	1	LOT 99 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-320-045-000	A	100.00	100.00	1	LOT 55 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-530-014-000	A	100.00	100.00	1	LOT 266 WOODCREEK OAKS VILL 3 T-67
480-050-011-000	A	100.00	100.00	1	LOT 11 SILVERADO OAKS UNIT NO 7 PH A T-77
480-020-059-000	A	100.00	100.00	1	LOT 139 SILVERADO VILLAGE UNIT 2 PH B S-39
477-200-004-000	A	100.00	100.00	1	LOT 4 RIDGEWOOD UNIT 1 R-87
477-320-009-000	A	100.00	100.00	1	LOT 19 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-610-012-000	A	100.00	100.00	1	LOT 174 WOODCREEK OAKS VILL 2 U-20
477-210-036-000	A	100.00	100.00	1	LOT 227 RIDGEWOOD UNIT 4 S-100
477-460-004-000	A	100.00	100.00	1	LOT 13 WOODCREEK OAKS VILL 4-PH A T-65
477-350-029-000	A	100.00	100.00	1	LOT 147 WOODCREEK OAKS VILLAGE 7C S-33
477-230-015-000	A	100.00	100.00	1	LOT 37 RIDGEWOOD UNIT 1 R-87
477-440-025-000	A	100.00	100.00	1	LOT 25 RIDGEWOOD OAKS UNIT NO 5 T-59
480-010-037-000	A	100.00	100.00	1	LOT 37 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-210-054-000	A	100.00	100.00	1	LOT 245 RIDGEWOOD UNIT 4 S-100
477-320-027-000	A	100.00	100.00	1	LOT 37 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-530-032-000	A	100.00	100.00	1	LOT 290 WOODCREEK OAKS VILL 3 T-67
477-200-040-000	A	100.00	100.00	1	LOT 183 RIDGEWOOD UNIT 3 MOR S-41
477-220-011-000	A	100.00	100.00	1	LOT 82 RIDGEWOOD UNIT 1 R-87
477-660-043-000	A	100.00	100.00	1	LOT 179 WOODCREEK OAKS VILLAGE 5B MOR V-28
480-010-019-000	A	100.00	100.00	1	LOT 19 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-390-030-000	A	100.00	100.00	1	LOT 94 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-640-006-000	A	100.00	100.00	1	LOT 133 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-230-033-000	A	100.00	100.00	1	LOT 73 RIDGEWOOD UNIT 1 R-87
477-440-007-000	A	100.00	100.00	1	LOT 7 RIDGEWOOD OAKS UNIT NO 5 T-59
477-370-041-000	A	100.00	100.00	1	LOT 126 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-080-029-000	A	100.00	100.00	1	LOT 421 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-410-026-000	A	100.00	100.00	1	LOT 75 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-380-015-000	A	100.00	100.00	1	LOT 148 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-420-023-000	A	100.00	100.00	1	LOT 372 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-250-017-000	A	100.00	100.00	1	LOT 17 WOODCREEK OAKS UNIT 9-B S-14
477-400-029-000	A	100.00	100.00	1	LOT 65 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-420-041-000	A	100.00	100.00	1	LOT 390 WOODCREEK OAKS VILLAGE II UNIT A T-7
480-010-002-000	A	100.00	100.00	1	LOT 2 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-260-014-000	A	100.00	100.00	1	LOT 82 WOODCREEK OAKS UNIT 9-C S-15
477-630-001-000	A	100.00	100.00	1	LOT 139 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-200-057-000	A	100.00	100.00	1	LOT 200 RIDGEWOOD UNIT 3 MOR S-41

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-660-025-000	A	100.00	100.00	1	LOT 128 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-500-003-000	A	100.00	100.00	1	LOT 63 WOODCREEK OAKS VILL 4-PH B T-66
477-380-033-000	A	100.00	100.00	1	LOT 166 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-420-005-000	A	100.00	100.00	1	LOT 354 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-340-012-000	A	100.00	100.00	1	LOT 95 WOODCREEK OAKS VILLAGE 7B S-32
477-620-004-000	A	100.00	100.00	1	LOT 202 WOODCREEK OAKS VILL 2 U-20
477-660-007-000	A	100.00	100.00	1	LOT 110 WOODCREEK OAKS VILLAGE 5B MOR V-28
480-010-055-000	A	100.00	100.00	1	LOT 55 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-590-002-000	A	100.00	100.00	1	LOT 69 WOODCREEK OAKS UNIT 1 PH B MOR U-4
480-090-008-000	A	100.00	100.00	1	LOT 361 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-330-020-000	A	100.00	100.00	1	LOT 67 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-580-009-000	A	100.00	100.00	1	LOT 89 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-380-051-000	A	100.00	100.00	1	LOT 184 WOODCREEK OAKS VILLAGE #12 PH C S-52
480-040-001-000	A	100.00	100.00	1	LOT 36 SILVERADO OAKS UNIT NO 7 PH A T-77
477-550-016-000	A	100.00	100.00	1	LOT 51 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-480-011-000	A	100.00	100.00	1	LOT 87 WOODCREEK OAKS VILL 4 PHASE B T-66
477-580-027-000	A	100.00	100.00	1	LOT 107 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-410-008-000	A	100.00	100.00	1	LOT 52 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-070-012-000	A	100.00	100.00	1	LOT 71 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-001-000	A	100.00	100.00	1	LOT 39 RIDGEWOOD UNIT 1 MOR R-87
480-010-073-000	A	100.00	100.00	1	LOT 73 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-620-022-000	A	100.00	100.00	1	LOT 220 WOODCREEK OAKS VILL 2 U-20
477-330-032-000	A	100.00	100.00	1	POR LOTS 59&60 WOODCREEK OAKS VILLAGE #12 PHA S-27
477-460-019-000	A	100.00	100.00	1	LOT 41 WOODCREEK OAKS VILL 4-PH A T-65
477-190-052-000	A	100.00	100.00	1	LOT 133 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-300-034-000	A	100.00	100.00	1	LOT 302 WOODCREEK OAKS UNIT 10 S-22
477-190-034-000	A	100.00	100.00	1	LOT 87 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-490-017-000	A	100.00	100.00	1	LOT 91 WOODCREEK OAKS VILL 4 PHASE B T-66
477-640-001-000	A	100.00	100.00	1	LOT 100 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-300-016-000	A	100.00	100.00	1	LOT 276 WOODCREEK OAKS UNIT 10 S-22
477-300-052-000	A	100.00	100.00	1	LOT 320 WOODCREEK OAKS UNIT 10 S-22
480-030-016-000	A	100.00	100.00	1	LOT 97 SILVERADO OAKS UNIT NO 7 PH A T-77
477-260-020-000	A	100.00	100.00	1	LOT 88 WOODCREEK OAKS UNIT 9-C S-15
477-420-011-000	A	100.00	100.00	1	LOT 360 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-610-029-000	A	100.00	100.00	1	LOT 232 WOODCREEK OAKS VILL 2 U-20
480-040-024-000	A	100.00	100.00	1	LOT 91 SILVERADO OAKS UNIT NO 7 PH A T-77
477-480-005-000	A	100.00	100.00	1	LOT 49 WOODCREEK OAKS VILL 4 PHASE B T-66
477-350-012-000	A	100.00	100.00	1	LOT 130 WOODCREEK OAKS VILLAGE 7C S-33
477-240-038-000	A	100.00	100.00	1	LOT 188 WOODCREEK OAKS UNIT 9-4 S-13
477-310-064-000	A	100.00	100.00	1	LOT 253 WOODCREEK OAKS UNIT 10 S-22
480-020-062-000	A	100.00	100.00	1	LOT 142 SILVERADO VILLAGE UNIT 2 PH B S-39
477-360-006-000	A	100.00	100.00	1	LOT 98 RIDGEWOOD UNIT 2 S-40
477-650-031-000	A	100.00	100.00	1	LOT 142 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-510-003-000	A	100.00	100.00	1	LOT 304 WOODCREEK OAKS VILL 3 T-67
477-330-014-000	A	100.00	100.00	1	LOT 61 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-080-012-000	A	100.00	100.00	1	LOT 406 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-600-017-000	A	100.00	100.00	1	LOT 198 WOODCREEK OAKS VILL 2 U-20
477-570-028-000	A	100.00	100.00	1	LOT 437 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-530-020-000	A	100.00	100.00	1	LOT 272 WOODCREEK OAKS VILL 3 T-67
477-370-011-000	A	100.00	100.00	1	LOT 87 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-060-010-000	A	100.00	100.00	1	LOT 30 SILVERADO OAKS UNIT NO 7 PH A T-77
477-270-018-000	A	100.00	100.00	1	LOT 102 WOODCREEK OAKS UNIT 9-C S-15
477-210-006-000	A	100.00	100.00	1	LOT 44 RIDGEWOOD UNIT 1 R-87
477-360-042-000	A	100.00	100.00	1	LOT 134 RIDGEWOOD UNIT 2 S-40
480-080-047-000	A	100.00	100.00	1	POR LOT 387 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-560-016-000	A	100.00	100.00	1	LOT 16 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-080-065-000	A	100.00	100.00	1	POR LTS 389B & 390 SILVERADO OAKS U7 PH F T-82
477-240-003-000	A	100.00	100.00	1	LOT 31 WOODCREEK OAKS UNIT 9-A S-13
480-020-044-000	A	100.00	100.00	1	LOT 124 SILVERADO VILLAGE UNIT 2 PH B S-39
477-430-027-000	A	100.00	100.00	1	LOT 457 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-200-030-000	A	100.00	100.00	1	LOT 173 RIDGEWOOD UNIT 3 MOR S-41
480-010-039-000	A	100.00	100.00	1	LOT 39 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-050-005-000	A	100.00	100.00	1	LOT 5 SILVERADO OAKS UNIT NO 7 PH A T-77
477-390-022-000	A	100.00	100.00	1	LOT 86 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-540-004-000	A	100.00	100.00	1	LOT 241 WOODCREEK OAKS VILL 3 T-67

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-240-021-000	A	100.00	100.00	1	LOT 171 WOODCREEK OAKS UNIT 9-A S-13
477-520-015-000	A	100.00	100.00	1	LOT 300 WOODCREEK OAKS VILL 3 T-67
477-400-012-000	A	100.00	100.00	1	LOT 27 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-040-006-000	A	100.00	100.00	1	LOT 41 SILVERADO OAKS UNIT NO 7 PH A T-77
480-020-026-000	A	100.00	100.00	1	LOT 106 SILVERADO VILLAGE UNIT 2 PH B S-39
477-430-009-000	A	100.00	100.00	1	LOT 408 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-340-029-000	A	100.00	100.00	1	LOT 112 WOODCREEK OAKS VILLAGE 7B S-32
480-090-042-000	A	100.00	100.00	1	LOT 396 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-650-013-000	A	100.00	100.00	1	LOT 124 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-360-024-000	A	100.00	100.00	1	LOT 116 RIDGEWOOD UNIT 2 S-40
477-450-007-000	A	100.00	100.00	1	LOT 7 WOODCREEK OAKS VILL 4-PH A T-65
477-280-013-000	A	100.00	100.00	1	LOT 52 WOODCREEK OAKS UNIT 9-D S-16
477-350-047-000	A	100.00	100.00	1	LOT 165 WOODCREEK OAKS VILLAGE 7C S-33
477-390-004-000	A	100.00	100.00	1	LOT 4 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-070-029-000	A	100.00	100.00	1	LOT 88 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-049-000	A	100.00	100.00	1	LOT 240 RIDGEWOOD UNIT 4 S-100
477-360-060-000	A	100.00	100.00	1	LOT 152 RIDGEWOOD UNIT 2 S-40
477-210-067-000	A	100.00	100.00	1	LOT 258 RIDGEWOOD UNIT 4 S-100
477-190-016-000	A	100.00	100.00	1	LOT 25 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-270-036-000	A	100.00	100.00	1	POR LOT 60 WOODCREEK OAKS UNIT 9 C S-15
480-020-008-000	A	100.00	100.00	1	LOT 88 SILVERADO VILLAGE UNIT 2 PH B S-39
477-380-009-000	A	100.00	100.00	1	LOT 142 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-280-031-000	A	100.00	100.00	1	LOT 154 WOODCREEK OAKS UNIT 9-D S-16
477-630-006-000	A	100.00	100.00	1	LOT 144 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-220-005-000	A	100.00	100.00	1	LOT 62 RIDGEWOOD UNIT 1 R-87
480-050-023-000	A	100.00	100.00	1	POR LTS 13 & 14 SILVERADO OAKSU NIT NO 7 PH A T-77
477-230-010-000	A	100.00	100.00	1	LOT 32 RIDGEWOOD UNIT 1 R-87
477-420-064-000	A	100.00	100.00	1	LOT 428 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-310-021-000	A	100.00	100.00	1	LOT 210 WOODCREEK OAKS UNIT 10 S-22
477-470-006-000	A	100.00	100.00	1	LOT 29 WOODCREEK OAKS VILL 4-PH A T-65
477-610-004-000	A	100.00	100.00	1	LOT 166 WOODCREEK OAKS VILL 2 U-20
477-640-018-000	A	100.00	100.00	1	LOT 190 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-260-019-000	A	100.00	100.00	1	LOT 87 WOODCREEK OAKS UNIT 9-C S-15
477-380-027-000	A	100.00	100.00	1	LOT 160 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-310-003-000	A	100.00	100.00	1	LOT 192 WOODCREEK OAKS UNIT 10 S-22
477-290-017-000	A	100.00	100.00	1	LOT 129 WOODCREEK OAKS UNIT 9-D S-16
477-380-045-000	A	100.00	100.00	1	LOT 178 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-580-015-000	A	100.00	100.00	1	LOT 95 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-420-028-000	A	100.00	100.00	1	LOT 377 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-440-035-000	A	100.00	100.00	1	LOT 35 RIDGEWOOD OAKS UNIT NO 5 T-59
477-410-034-000	A	100.00	100.00	1	LOT 83 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-380-063-000	A	100.00	100.00	1	POR LOT 122 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-440-017-000	A	100.00	100.00	1	LOT 17 RIDGEWOOD OAKS UNIT NO 5 T-59
477-190-059-000	A	100.00	100.00	1	LOT 140 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-570-011-000	A	100.00	100.00	1	LOT 332 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-010-050-000	A	100.00	100.00	1	LOT 50 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-530-002-000	A	100.00	100.00	1	LOT 235 WOODCREEK OAKS VILL 3 T-67
477-610-022-000	A	100.00	100.00	1	LOT 184 WOODCREEK OAKS VILL 2 U-20
477-200-012-000	A	100.00	100.00	1	LOT 12 RIDGEWOOD UNIT 1 R-87
477-420-046-000	A	100.00	100.00	1	LOT 395 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-500-013-000	A	100.00	100.00	1	LOT 73 WOODCREEK OAKS VILL 4-PH B T-66
477-370-028-000	A	100.00	100.00	1	LOT 104 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-390-029-000	A	100.00	100.00	1	LOT 93 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-340-004-000	A	100.00	100.00	1	LOT 87 WOODCREEK OAKS VILLAGE 7B S-32
477-560-034-000	A	100.00	100.00	1	LOT 44 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-430-010-000	A	100.00	100.00	1	LOT 409 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-200-047-000	A	100.00	100.00	1	LOT 190 RIDGEWOOD UNIT 3 MOR S-41
480-090-016-000	A	100.00	100.00	1	LOT 369 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-340-022-000	A	100.00	100.00	1	LOT 105 WOODCREEK OAKS VILLAGE 7B S-32
477-200-065-000	A	100.00	100.00	1	LOT 208 RIDGEWOOD UNIT 3 MOR S-41
477-370-046-000	A	100.00	100.00	1	LOT 131 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-660-035-000	A	100.00	100.00	1	LOT 171 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-530-019-000	A	100.00	100.00	1	LOT 271 WOODCREEK OAKS VILL 3 T-67
480-080-030-000	A	100.00	100.00	1	LOT 422 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-320-051-000	A	100.00	100.00	1	POR LOT 23 WOODCREEK OAKS VILLAGE #12 PH A S-27

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-660-017-000	A	100.00	100.00	1	LOT 120 WOODCREEK OAKS VILLAGE 5B MOR V-28
480-070-004-000	A	100.00	100.00	1	LOT 63 SILVERADO OAKS UNIT NO 7 PH A T-77
477-410-016-000	A	100.00	100.00	1	LOT 60 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-250-025-000	A	100.00	100.00	1	LOT 27 WOODCREEK OAKS UNIT 9-B S-14
477-350-030-000	A	100.00	100.00	1	LOT 148 WOODCREEK OAKS VILLAGE 7C S-33
480-010-032-000	A	100.00	100.00	1	LOT 32 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-230-045-000	A	100.00	100.00	1	POR 77 & POR LOTS 76 & 78 RIDGEWOOD UNIT 1 R-87
480-060-009-000	A	100.00	100.00	1	LOT 29 SILVERADO OAKS UNIT NO 7 PH A T-77
477-550-008-000	A	100.00	100.00	1	LOT 41 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-210-042-000	A	100.00	100.00	1	LOT 233 RIDGEWOOD UNIT 4 S-100
477-230-009-000	A	100.00	100.00	1	LOT 31 RIDGEWOOD UNIT 1 R-87
480-010-014-000	A	100.00	100.00	1	LOT 14 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-070-022-000	A	100.00	100.00	1	LOT 81 SILVERADO OAKS UNIT NO 7 PH A T-77
477-320-033-000	A	100.00	100.00	1	LOT 43 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-360-067-000	A	100.00	100.00	1	LOT 159 RIDGEWOOD UNIT 2 S-40
477-210-060-000	A	100.00	100.00	1	LOT 251 RIDGEWOOD UNIT 4 S-100
477-260-002-000	A	100.00	100.00	1	LOT 39 WOODCREEK OAKS UNIT 9-C S-15
477-380-010-000	A	100.00	100.00	1	LOT 143 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-310-056-000	A	100.00	100.00	1	LOT 245 WOODCREEK OAKS UNIT 10 S-22
477-550-026-000	A	100.00	100.00	1	LOT 61 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-360-049-000	A	100.00	100.00	1	LOT 141 RIDGEWOOD UNIT 2 S-40
477-250-007-000	A	100.00	100.00	1	LOT 7 WOODCREEK OAKS UNIT 9-B S-14
477-590-014-000	A	100.00	100.00	1	LOT 109 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-230-027-000	A	100.00	100.00	1	LOT 67 RIDGEWOOD UNIT 1 R-87
477-620-012-000	A	100.00	100.00	1	LOT 210 WOODCREEK OAKS VILL 2 U-20
477-310-038-000	A	100.00	100.00	1	LOT 227 WOODCREEK OAKS UNIT 10 S-22
477-620-020-000	A	100.00	100.00	1	LOT 218 WOODCREEK OAKS VILL 2 U-20
477-300-006-000	A	100.00	100.00	1	LOT 266 WOODCREEK OAKS UNIT 10 S-22
477-330-004-000	A	100.00	100.00	1	LOT 4 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-440-010-000	A	100.00	100.00	1	LOT 10 RIDGEWOOD OAKS UNIT NO 5 T-59
477-190-024-000	A	100.00	100.00	1	LOT 33 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-330-022-000	A	100.00	100.00	1	LOT 69 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-190-042-000	A	100.00	100.00	1	LOT 98 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-600-009-000	A	100.00	100.00	1	LOT 190 WOODCREEK OAKS VILL 2 U-20
477-480-013-000	A	100.00	100.00	1	LOT 89 WOODCREEK OAKS VILL 4 PHASE B T-66
477-300-042-000	A	100.00	100.00	1	LOT 310 WOODCREEK OAKS UNIT 10 S-22
477-260-030-000	A	100.00	100.00	1	LOT 159 WOODCREEK OAKS UNIT 9-C S-15
480-030-006-000	A	100.00	100.00	1	LOT 53 SILVERADO OAKS UNIT NO 7 PH A T-77
477-310-074-000	A	100.00	100.00	1	LOT 292 WOODCREEK OAKS UNIT 10 S-22
477-360-016-000	A	100.00	100.00	1	LOT 108 RIDGEWOOD UNIT 2 S-40
477-240-028-000	A	100.00	100.00	1	LOT 178 WOODCREEK OAKS UNIT 9-A S-13
477-290-010-000	A	100.00	100.00	1	LOT 122 WOODCREEK OAKS UNIT 9-D S-16
477-350-002-000	A	100.00	100.00	1	LOT 120 WOODCREEK OAKS VILLAGE 7C S-33
477-650-041-000	A	100.00	100.00	1	LOT 152 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-490-009-000	A	100.00	100.00	1	LOT 79 WOODCREEK OAKS VILL 4 PHASE B T-66
477-400-019-000	A	100.00	100.00	1	LOT 34 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-560-024-000	A	100.00	100.00	1	LOT 24 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-550-001-000	A	100.00	100.00	1	LOT 34 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-520-007-000	A	100.00	100.00	1	LOT 292 WOODCREEK OAKS VILL 3 T-67
477-570-038-000	A	100.00	100.00	1	LOT 447 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-190-060-000	A	100.00	100.00	1	LOT 141 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
480-080-002-000	A	100.00	100.00	1	LOT 353B SILVERADO OAKS UNIT 7 PH F MOR T-82
480-010-029-000	A	100.00	100.00	1	LOT 29 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-560-006-000	A	100.00	100.00	1	LOT 6 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-570-003-000	A	100.00	100.00	1	LOT 324 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-090-034-000	A	100.00	100.00	1	LOT 384 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-360-070-000	A	100.00	100.00	1	LOT 162 RIDGEWOOD UNIT 2 S-40
477-210-016-000	A	100.00	100.00	1	LOT 88 RIDGEWOOD UNIT 1 R-87
477-570-021-000	A	100.00	100.00	1	LOT 342 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-200-020-000	A	100.00	100.00	1	LOT 85 RIDGEWOOD UNIT 1 R-87
477-350-037-000	A	100.00	100.00	1	LOT 155 WOODCREEK OAKS VILLAGE 7C S-33
480-020-054-000	A	100.00	100.00	1	LOT 134 SILVERADO VILLAGE UNIT 2 PH B S-39
477-360-052-000	A	100.00	100.00	1	LOT 144 RIDGEWOOD UNIT 2 S-40
477-280-005-000	A	100.00	100.00	1	LOT 44 WOODCREEK OAKS UNIT 9-D S-16
477-360-034-000	A	100.00	100.00	1	LOT 126 RIDGEWOOD UNIT 2 S-40

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-040-016-000	A	100.00	100.00	1	LOT 110 SILVERADO OAKS UNIT NO 7 PH A T-77
480-020-036-000	A	100.00	100.00	1	LOT 116 SILVERADO VILLAGE UNIT 2 PH B S-39
477-280-023-000	A	100.00	100.00	1	LOT 146 WOODCREEK OAKS UNIT 9-D S-16
477-270-008-000	A	100.00	100.00	1	LOT 67 WOODCREEK OAKS UNIT 9-C S-15
477-400-002-000	A	100.00	100.00	1	LOT 17 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-530-030-000	A	100.00	100.00	1	LOT 288 WOODCREEK OAKS VILL 3 T-67
480-080-037-000	A	100.00	100.00	1	LOT 427 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-390-032-000	A	100.00	100.00	1	LOT 96 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-350-019-000	A	100.00	100.00	1	LOT 137 WOODCREEK OAKS VILLAGE 7C S-33
477-540-014-000	A	100.00	100.00	1	LOT 255 WOODCREEK OAKS VILL 3 T-67
480-020-018-000	A	100.00	100.00	1	LOT 98 SILVERADO VILLAGE UNIT 2 PH B S-39
477-650-023-000	A	100.00	100.00	1	LOT 134 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-390-014-000	A	100.00	100.00	1	LOT 14 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-660-010-000	A	100.00	100.00	1	LOT 113 WOODCREEK OAKS VILLAGE 5B MOR V-28
480-030-024-000	A	100.00	100.00	1	LOT 105 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-059-000	A	100.00	100.00	1	LOT 250 RIDGEWOOD UNIT 4 S-100
480-080-055-000	A	100.00	100.00	1	POR LT 425B SILVERADO OAKS UNIT 7 PH F MOR T-82
477-300-024-000	A	100.00	100.00	1	LOT 284 WOODCREEK OAKS UNIT 10 S-22
477-650-005-000	A	100.00	100.00	1	LOT 116 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-430-017-000	A	100.00	100.00	1	LOT 416 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-630-016-000	A	100.00	100.00	1	LOT 154 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-310-011-000	A	100.00	100.00	1	LOT 200 WOODCREEK OAKS UNIT 10 S-22
477-460-012-000	A	100.00	100.00	1	LOT 24 WOODCREEK OAKS VILL 4-PH A T-65
477-270-026-000	A	100.00	100.00	1	LOT 110 WOODCREEK OAKS UNIT 9-C S-15
477-460-002-000	A	100.00	100.00	1	LOT 11 WOODCREEK OAKS VILL 4-PH A T-65
477-610-014-000	A	100.00	100.00	1	LOT 176 WOODCREEK OAKS VILL 2 U-20
477-320-007-000	A	100.00	100.00	1	LOT 17 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-600-010-000	A	100.00	100.00	1	LOT 191 WOODCREEK OAKS VILL 2 U-20
477-440-027-000	A	100.00	100.00	1	LOT 27 RIDGEWOOD OAKS UNIT NO 5 T-59
477-620-019-000	A	100.00	100.00	1	LOT 217 WOODCREEK OAKS VILL 2 U-20
477-320-025-000	A	100.00	100.00	1	LOT 35 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-640-008-000	A	100.00	100.00	1	LOT 135 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-440-009-000	A	100.00	100.00	1	LOT 9 RIDGEWOOD OAKS UNIT NO 5 T-59
477-330-029-000	A	100.00	100.00	1	LOT 76 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-420-038-000	A	100.00	100.00	1	LOT 387 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-400-020-000	A	100.00	100.00	1	LOT 35 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-250-015-000	A	100.00	100.00	1	LOT 15 WOODCREEK OAKS UNIT 9-B S-14
477-380-017-000	A	100.00	100.00	1	LOT 150 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-190-049-000	A	100.00	100.00	1	LOT 130 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-370-003-000	A	100.00	100.00	1	LOT 79 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-410-024-000	A	100.00	100.00	1	LOT 73 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-300-049-000	A	100.00	100.00	1	LOT 317 WOODCREEK OAKS UNIT 10 S-22
477-240-011-000	A	100.00	100.00	1	LOT 161 WOODCREEK OAKS UNIT 9-A S-13
477-190-067-000	A	100.00	100.00	1	LOT 148 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
480-090-024-000	A	100.00	100.00	1	LOT 376 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-290-009-000	A	100.00	100.00	1	LOT 121 WOODCREEK OAKS UNIT 9-D S-16
477-380-035-000	A	100.00	100.00	1	LOT 168 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-370-021-000	A	100.00	100.00	1	LOT 97 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-530-012-000	A	100.00	100.00	1	LOT 264 WOODCREEK OAKS VILL 3 T-67
477-420-056-000	A	100.00	100.00	1	LOT 420 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-200-002-000	A	100.00	100.00	1	LOT 2 RIDGEWOOD UNIT 1 R-87
477-490-010-000	A	100.00	100.00	1	LOT 80 WOODCREEK OAKS VILL 4 PHASE B T-66
480-010-040-000	A	100.00	100.00	1	LOT 40 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-010-057-000	A	100.00	100.00	1	LOT 57 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-340-032-000	A	100.00	100.00	1	LOT 115 WOODCREEK OAKS VILLAGE 7B S-32
480-090-006-000	A	100.00	100.00	1	LOT 359 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-590-004-000	A	100.00	100.00	1	LOT 71 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-210-034-000	A	100.00	100.00	1	LOT 225 RIDGEWOOD UNIT 4 S-100
477-200-019-000	A	100.00	100.00	1	LOT 19 RIDGEWOOD UNIT 1 R-87
477-230-017-000	A	100.00	100.00	1	LOT 51 RIDGEWOOD UNIT 1 R-87
480-080-020-000	A	100.00	100.00	1	LOT 412 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-370-038-000	A	100.00	100.00	1	LOT 114 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-580-007-000	A	100.00	100.00	1	LOT 87 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-380-053-000	A	100.00	100.00	1	LOT 186 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-660-045-000	A	100.00	100.00	1	LOT 181 WOODCREEK OAKS VILLAGE 5B MOR V-28

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-550-018-000	A	100.00	100.00	1	LOT 53 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-210-052-000	A	100.00	100.00	1	LOT 243 RIDGEWOOD UNIT 4 S-100
477-350-020-000	A	100.00	100.00	1	LOT 138 WOODCREEK OAKS VILLAGE 7C S-33
477-580-025-000	A	100.00	100.00	1	LOT 105 WOODCREEK OAKS UNIT 1 PH B MOR U-4
480-010-022-000	A	100.00	100.00	1	LOT 22 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-510-011-000	A	100.00	100.00	1	LOT 312 WOODCREEK OAKS VILL 3 T-67
480-070-014-000	A	100.00	100.00	1	LOT 73 SILVERADO OAKS UNIT NO 7 PH A T-77
477-290-027-000	A	100.00	100.00	1	LOT 58 & POR 59 WOODCREEK OAKS UNIT 9 D S-16
477-200-037-000	A	100.00	100.00	1	LOT 180 RIDGEWOOD UNIT 3 MOR S-41
480-010-075-000	A	100.00	100.00	1	LOT 75 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-200-073-000	A	100.00	100.00	1	LOT 216 RIDGEWOOD UNIT 3 MOR S-41
477-420-021-000	A	100.00	100.00	1	LOT 370 WOODCREEK OAKS VILLAGE II UNIT A T-7
480-020-001-000	A	100.00	100.00	1	LOT 81 SILVERADO VILLAGE UNIT 2 PH B S-39
477-310-046-000	A	100.00	100.00	1	LOT 235 WOODCREEK OAKS UNIT 10 S-22
477-500-005-000	A	100.00	100.00	1	LOT 65 WOODCREEK OAKS VILL 4-PH B T-66
480-010-004-000	A	100.00	100.00	1	LOT 4 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-660-027-000	A	100.00	100.00	1	LOT 130 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-200-055-000	A	100.00	100.00	1	LOT 198 RIDGEWOOD UNIT 3 MOR S-41
477-210-070-000	A	100.00	100.00	1	LOT 261 RIDGEWOOD UNIT 4 S-100
477-260-012-000	A	100.00	100.00	1	LOT 80 WOODCREEK OAKS UNIT 9-C S-15
477-420-003-000	A	100.00	100.00	1	LOT 352 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-340-014-000	A	100.00	100.00	1	LOT 97 WOODCREEK OAKS VILLAGE 7B S-32
477-620-002-000	A	100.00	100.00	1	LOT 186 WOODCREEK OAKS VILL 2 U-20
477-660-009-000	A	100.00	100.00	1	LOT 112 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-310-028-000	A	100.00	100.00	1	LOT 217 WOODCREEK OAKS UNIT 10 S-22
477-360-059-000	A	100.00	100.00	1	LOT 151 RIDGEWOOD UNIT 2 S-40
477-320-043-000	A	100.00	100.00	1	LOT 53 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-450-005-000	A	100.00	100.00	1	LOT 5 WOODCREEK OAKS VILL 4-PH A T-65
480-040-022-000	A	100.00	100.00	1	LOT 121 SILVERADO OAKS UNIT NO 7 PH A T-77
477-620-001-000	A	100.00	100.00	1	LOT 185 WOODCREEK OAKS VILL 2 U-20
477-570-035-000	A	100.00	100.00	1	LOT 444 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-390-006-000	A	100.00	100.00	1	LOT 6 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-380-003-000	A	100.00	100.00	1	LOT 136 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-570-017-000	A	100.00	100.00	1	LOT 338 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-020-002-000	A	100.00	100.00	1	LOT 82 SILVERADO VILLAGE UNIT 2 PH B S-39
480-080-072-000	A	100.00	100.00	1	LOT 429 B & POR 429 A SILVERADO OAKS U7 PH F T-82
477-190-014-000	A	100.00	100.00	1	LOT 23 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-650-033-000	A	100.00	100.00	1	LOT 144 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-440-011-000	A	100.00	100.00	1	LOT 11 RIDGEWOOD OAKS UNIT NO 5 T-59
477-220-007-000	A	100.00	100.00	1	LOT 64 RIDGEWOOD UNIT 1 R-87
477-460-008-000	A	100.00	100.00	1	LOT 20 WOODCREEK OAKS VILL 4-PH A T-65
480-050-025-000	A	100.00	100.00	1	POR LOT 16 SILVERADO OAKS UNIT NO 7 PH A T-77
477-360-057-000	A	100.00	100.00	1	LOT 149 RIDGEWOOD UNIT 2 S-40
477-630-004-000	A	100.00	100.00	1	LOT 142 WOODCREEK OAKS VILLAGE 5A MOR U-56
480-010-059-000	A	100.00	100.00	1	LOT 59 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-210-004-000	A	100.00	100.00	1	LOT 42 RIDGEWOOD UNIT 1 R-87
477-300-032-000	A	100.00	100.00	1	LOT 300 WOODCREEK OAKS UNIT 10 S-22
477-190-050-000	A	100.00	100.00	1	LOT 131 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-430-021-000	A	100.00	100.00	1	LOT 451 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-330-034-000	A	100.00	100.00	1	POR LOTS 58 59 & 121 WOODCREEK OAKS VILL#12 PH A&B
477-190-032-000	A	100.00	100.00	1	LOT 85 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-240-009-000	A	100.00	100.00	1	LOT 37 WOODCREEK OAKS UNIT 9-A S-13
477-560-014-000	A	100.00	100.00	1	LOT 14 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-300-050-000	A	100.00	100.00	1	LOT 318 WOODCREEK OAKS UNIT 10 S-22
480-050-007-000	A	100.00	100.00	1	LOT 7 SILVERADO OAKS UNIT NO 7 PH A T-77
477-540-006-000	A	100.00	100.00	1	LOT 243 WOODCREEK OAKS VILL 3 T-67
477-240-027-000	A	100.00	100.00	1	LOT 177 WOODCREEK OAKS UNIT 9-A S-13
477-270-012-000	A	100.00	100.00	1	LOT 96 WOODCREEK OAKS UNIT 9-C S-15
477-290-011-000	A	100.00	100.00	1	LOT 123 WOODCREEK OAKS UNIT 9-D S-16
480-010-077-000	A	100.00	100.00	1	LOT 77 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-400-018-000	A	100.00	100.00	1	LOT 33 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-430-003-000	A	100.00	100.00	1	LOT 348 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
480-040-004-000	A	100.00	100.00	1	LOT 39 SILVERADO OAKS UNIT NO 7 PH A T-77
477-280-015-000	A	100.00	100.00	1	LOT 138 WOODCREEK OAKS UNIT 9-D S-16
477-480-007-000	A	100.00	100.00	1	LOT 51 WOODCREEK OAKS VILL 4 PHASE B T-66

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-350-018-000	A	100.00	100.00	1	LOT 136 WOODCREEK OAKS VILLAGE 7C S-33
477-550-020-000	A	100.00	100.00	1	LOT 55 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-200-001-000	A	100.00	100.00	1	LOT 1 RIDGEWOOD UNIT 1 MOR BK R PG 87
477-330-016-000	A	100.00	100.00	1	LOT 63 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-360-004-000	A	100.00	100.00	1	LOT 96 RIDGEWOOD UNIT 2 S-40
477-510-009-000	A	100.00	100.00	1	LOT 310 WOODCREEK OAKS VILL 3 MOR T-67
477-310-071-000	A	100.00	100.00	1	LOT 260 WOODCREEK OAKS UNIT 10 S-22
477-280-033-000	A	100.00	100.00	1	LOT 156 WOODCREEK OAKS UNIT 9-D S-16
480-020-055-000	A	100.00	100.00	1	LOT 135 SILVERADO VILLAGE UNIT 2 PH B S-39
477-310-010-000	A	100.00	100.00	1	LOT 199 WOODCREEK OAKS UNIT 10 S-22
477-360-040-000	A	100.00	100.00	1	LOT 132 RIDGEWOOD UNIT 2 S-40
480-020-037-000	A	100.00	100.00	1	LOT 117 SILVERADO VILLAGE UNIT 2 PH B S-39
477-300-014-000	A	100.00	100.00	1	LOT 274 WOODCREEK OAKS UNIT 10 S-22
477-520-013-000	A	100.00	100.00	1	LOT 298 WOODCREEK OAKS VILL 3 T-67
480-020-019-000	A	100.00	100.00	1	LOT 99 SILVERADO VILLAGE UNIT 2 PH B S-39
477-460-001-000	A	100.00	100.00	1	LOT 10 WOODCREEK OAKS VILL 4-PH A T-65
480-030-014-000	A	100.00	100.00	1	LOT 95 SILVERADO OAKS UNIT NO 7 PH A T-77
477-390-024-000	A	100.00	100.00	1	LOT 88 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-660-011-000	A	100.00	100.00	1	LOT 114 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-650-015-000	A	100.00	100.00	1	LOT 126 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-350-036-000	A	100.00	100.00	1	LOT 154 WOODCREEK OAKS VILLAGE 7C S-33
480-090-040-000	A	100.00	100.00	1	LOT 394 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-360-022-000	A	100.00	100.00	1	LOT 114 RIDGEWOOD UNIT 2 S-40
477-210-057-000	A	100.00	100.00	1	LOT 248 RIDGEWOOD UNIT 4 S-100
477-380-038-000	A	100.00	100.00	1	LOT 171 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-210-029-000	A	100.00	100.00	1	LOT 220 RIDGEWOOD UNIT 4 S-100
480-010-016-000	A	100.00	100.00	1	LOT 16 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-230-003-000	A	100.00	100.00	1	LOT 25 RIDGEWOOD UNIT 1 R-87
477-260-008-000	A	100.00	100.00	1	LOT 76 WOODCREEK OAKS UNIT 9-C S-15
477-580-013-000	A	100.00	100.00	1	LOT 93 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-410-032-000	A	100.00	100.00	1	LOT 81 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-200-072-000	A	100.00	100.00	1	LOT 215 RIDGEWOOD UNIT 3 MOR S-41
477-230-021-000	A	100.00	100.00	1	LOT 55 RIDGEWOOD UNIT 1 R-87
477-420-035-000	A	100.00	100.00	1	LOT 384 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-590-016-000	A	100.00	100.00	1	LOT 111 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-610-024-000	A	100.00	100.00	1	LOT 227 WOODCREEK OAKS VILL 2 U-20
477-250-005-000	A	100.00	100.00	1	LOT 5 WOODCREEK OAKS UNIT 9-B S-14
477-370-053-000	A	100.00	100.00	1	POR LOTS111&112 WOODCREEK OAKS VILLAGE#12 PHB S-51
480-010-052-000	A	100.00	100.00	1	LOT 52 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-380-056-000	A	100.00	100.00	1	LOT 119 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-600-011-000	A	100.00	100.00	1	LOT 192 WOODCREEK OAKS VILL 2 U-20
477-620-018-000	A	100.00	100.00	1	LOT 216 WOODCREEK OAKS VILL 2 U-20
477-440-028-000	A	100.00	100.00	1	LOT 28 RIDGEWOOD OAKS UNIT NO 5 T-59
480-010-070-000	A	100.00	100.00	1	LOT 70 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-340-006-000	A	100.00	100.00	1	LOT 89 WOODCREEK OAKS VILLAGE 7B S-32
477-400-001-000	A	100.00	100.00	1	LOT 16 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-490-011-000	A	100.00	100.00	1	LOT 81 WOODCREEK OAKS VILL 4 PHASE B T-66
480-090-014-000	A	100.00	100.00	1	LOT 367 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-260-026-000	A	100.00	100.00	1	LOT 94 WOODCREEK OAKS UNIT 9-C S-15
477-410-014-000	A	100.00	100.00	1	LOT 58 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-070-006-000	A	100.00	100.00	1	LOT 65 SILVERADO OAKS UNIT NO 7 PH A T-77
477-300-039-000	A	100.00	100.00	1	LOT 307 WOODCREEK OAKS UNIT 10 S-22
477-190-039-000	A	100.00	100.00	1	LOT 95 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-550-002-000	A	100.00	100.00	1	LOT 35 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-240-010-000	A	100.00	100.00	1	LOT 160 WOODCREEK OAKS UNIT 9-A S-13
480-060-003-000	A	100.00	100.00	1	LOT 23 SILVERADO OAKS UNIT NO 7 PH A T-77
477-250-023-000	A	100.00	100.00	1	LOT 25 WOODCREEK OAKS UNIT 9-B S-14
477-420-017-000	A	100.00	100.00	1	LOT 366 WOODCREEK OAKS VILLAGE II UNIT A T-7
480-070-024-000	A	100.00	100.00	1	LOT 83 SILVERADO OAKS UNIT NO 7 PH A T-77
477-320-031-000	A	100.00	100.00	1	LOT 41 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-550-019-000	A	100.00	100.00	1	LOT 54 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-290-028-000	A	100.00	100.00	1	POR LOT 59 S-16 & POR LOT 60 S-15
477-510-010-000	A	100.00	100.00	1	LOT 311 WOODCREEK OAKS VILL 3 T-67
480-080-001-000	A	100.00	100.00	1	LOT 353A SILVERADO OAKS UNIT 7 PH F MOR T-82
477-530-008-000	A	100.00	100.00	1	LOT 253 WOODCREEK OAKS VILL 3 T-67

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-270-030-000	A	100.00	100.00	1	LOT 114 WOODCREEK OAKS UNIT 9-C S-15
477-200-018-000	A	100.00	100.00	1	LOT 18 RIDGEWOOD UNIT 1 R-87
477-310-045-000	A	100.00	100.00	1	LOT 234 WOODCREEK OAKS UNIT 10 S-22
477-350-001-000	A	100.00	100.00	1	LOT 119 WOODCREEK OAKS VILLAGE 7C S-33
477-660-046-000	A	100.00	100.00	1	LOT 182 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-420-053-000	A	100.00	100.00	1	LOT 402 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-530-026-000	A	100.00	100.00	1	LOT 284 WOODCREEK OAKS VILL 3 T-67
477-560-032-000	A	100.00	100.00	1	LOT 32 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-500-015-000	A	100.00	100.00	1	LOT 75 WOODCREEK OAKS VILL 4-PH B T-66
477-310-078-000	A	100.00	100.00	1	LOT 296 WOODCREEK OAKS UNIT 10 S-22
477-340-024-000	A	100.00	100.00	1	LOT 107 WOODCREEK OAKS VILLAGE 7B S-32
477-610-006-000	A	100.00	100.00	1	LOT 168 WOODCREEK OAKS VILL 2 U-20
477-370-017-000	A	100.00	100.00	1	LOT 93 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-200-036-000	A	100.00	100.00	1	LOT 179 RIDGEWOOD UNIT 3 MOR S-41
477-470-004-000	A	100.00	100.00	1	LOT 27 WOODCREEK OAKS VILL 4-PH A T-65
477-360-029-000	A	100.00	100.00	1	LOT 121 RIDGEWOOD UNIT 2 S-40
477-310-027-000	A	100.00	100.00	1	LOT 216 WOODCREEK OAKS UNIT 10 S-22
477-640-012-000	A	100.00	100.00	1	LOT 160 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-310-009-000	A	100.00	100.00	1	LOT 198 WOODCREEK OAKS UNIT 10 S-22
480-010-034-000	A	100.00	100.00	1	LOT 34 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-200-054-000	A	100.00	100.00	1	LOT 197 RIDGEWOOD UNIT 3 MOR S-41
477-210-040-000	A	100.00	100.00	1	LOT 231 RIDGEWOOD UNIT 4 S-100
477-660-028-000	A	100.00	100.00	1	LOT 131 WOODCREEK OAKS VILLAGE 5B MOR V-28
480-020-020-000	A	100.00	100.00	1	LOT 100 SILVERADO VILLAGE UNIT 2 PH B S-39
477-380-021-000	A	100.00	100.00	1	LOT 154 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-390-016-000	A	100.00	100.00	1	LOT 40 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-650-025-000	A	100.00	100.00	1	LOT 136 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-640-020-000	A	100.00	100.00	1	LOT 192 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-420-010-000	A	100.00	100.00	1	LOT 359 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-200-069-000	A	100.00	100.00	1	LOT 212 RIDGEWOOD UNIT 3 MOR S-41
477-240-017-000	A	100.00	100.00	1	LOT 167 WOODCREEK OAKS UNIT 9-A S-13
477-650-043-000	A	100.00	100.00	1	LOT 154 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-560-022-000	A	100.00	100.00	1	LOT 22 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-410-029-000	A	100.00	100.00	1	LOT 78 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-460-018-000	A	100.00	100.00	1	LOT 40 WOODCREEK OAKS VILL 4-PH A T-65
477-630-014-000	A	100.00	100.00	1	LOT 152 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-650-007-000	A	100.00	100.00	1	LOT 118 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-260-001-000	A	100.00	100.00	1	LOT 38 WOODCREEK OAKS UNIT 9-C S-15
477-400-026-000	A	100.00	100.00	1	LOT 62 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-020-012-000	A	100.00	100.00	1	LOT 92 SILVERADO VILLAGE UNIT 2 PH B S-39
477-240-035-000	A	100.00	100.00	1	LOT 185 WOODCREEK OAKS UNIT 9-4 S-13
480-080-062-000	A	100.00	100.00	1	POR LT 429A SILVERADO OAKS UNIT 7 PH F MOR T-82
477-190-022-000	A	100.00	100.00	1	LOT 31 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-560-004-000	A	100.00	100.00	1	LOT 4 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-010-049-000	A	100.00	100.00	1	LOT 49 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-330-024-000	A	100.00	100.00	1	LOT 71 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-210-014-000	A	100.00	100.00	1	LOT 86 RIDGEWOOD UNIT 1 R-87
477-570-027-000	A	100.00	100.00	1	LOT 436 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-280-007-000	A	100.00	100.00	1	LOT 46 WOODCREEK OAKS UNIT 9-D S-16
477-190-040-000	A	100.00	100.00	1	LOT 96 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-400-008-000	A	100.00	100.00	1	LOT 23 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-040-014-000	A	100.00	100.00	1	LOT 108 SILVERADO OAKS UNIT NO 7 PH A T-77
477-270-002-000	A	100.00	100.00	1	LOT 61 WOODCREEK OAKS UNIT 9-C S-15
477-280-025-000	A	100.00	100.00	1	LOT 148 WOODCREEK OAKS UNIT 9-D S-16
477-480-015-000	A	100.00	100.00	1	LOT 98 WOODCREEK OAKS VILL 4 PHASE B T-66
477-570-009-000	A	100.00	100.00	1	LOT 330 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-010-067-000	A	100.00	100.00	1	LOT 67 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-300-040-000	A	100.00	100.00	1	LOT 308 WOODCREEK OAKS UNIT 10 S-22
477-310-063-000	A	100.00	100.00	1	LOT 252 WOODCREEK OAKS UNIT 10 S-22
477-540-016-000	A	100.00	100.00	1	LOT 257 WOODCREEK OAKS VILL 3 T-67
480-030-022-000	A	100.00	100.00	1	LOT 103 SILVERADO OAKS UNIT NO 7 PH A T-77
477-360-014-000	A	100.00	100.00	1	LOT 106 RIDGEWOOD UNIT 2 S-40
477-530-001-000	A	100.00	100.00	1	LOT 234 WOODCREEK OAKS VILL 3 T-67
477-490-003-000	A	100.00	100.00	1	LOT 57 WOODCREEK OAKS VILL 4 PHASE B T-66
477-350-008-000	A	100.00	100.00	1	LOT 126 WOODCREEK OAKS VILLAGE 7C S-33

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-550-030-000	A	100.00	100.00	1	LOT 65 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-190-057-000	A	100.00	100.00	1	LOT 138 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-270-019-000	A	100.00	100.00	1	LOT 103 WOODCREEK OAKS UNIT 9-C S-15
477-370-010-000	A	100.00	100.00	1	LOT 86 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-060-011-000	A	100.00	100.00	1	LOT 31 SILVERADO OAKS UNIT NO 7 PH A T-77
477-300-022-000	A	100.00	100.00	1	LOT 282 WOODCREEK OAKS UNIT 10 S-22
477-490-021-000	A	100.00	100.00	1	LOT 95 WOODCREEK OAKS VILL 4 PHASE B T-66
477-520-005-000	A	100.00	100.00	1	LOT 278 WOODCREEK OAKS VILL 3 T-67
477-330-006-000	A	100.00	100.00	1	LOT 6 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-350-044-000	A	100.00	100.00	1	LOT 162 WOODCREEK OAKS VILLAGE 7C S-33
477-430-028-000	A	100.00	100.00	1	LOT 458 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-300-004-000	A	100.00	100.00	1	LOT 264 WOODCREEK OAKS UNIT 10 S-22
480-090-032-000	A	100.00	100.00	1	LOT 382 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-020-065-000	A	100.00	100.00	1	LOT 145 SILVERADO VILLAGE UNIT 2 PH B S-39
477-230-011-000	A	100.00	100.00	1	LOT 33 RIDGEWOOD UNIT 1 R-87
480-080-026-000	A	100.00	100.00	1	LOT 418 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-360-050-000	A	100.00	100.00	1	LOT 142 RIDGEWOOD UNIT 2 S-40
477-210-039-000	A	100.00	100.00	1	LOT 230 RIDGEWOOD UNIT 4 S-100
480-020-047-000	A	100.00	100.00	1	LOT 127 SILVERADO VILLAGE UNIT 2 PH B S-39
477-360-032-000	A	100.00	100.00	1	LOT 124 RIDGEWOOD UNIT 2 S-40
477-600-003-000	A	100.00	100.00	1	LOT 159 WOODCREEK OAKS VILL 2 U-20
477-350-026-000	A	100.00	100.00	1	LOT 144 WOODCREEK OAKS VILLAGE 7C S-33
477-390-034-000	A	100.00	100.00	1	LOT 98 WOODCREEK OAKS VILLAGE 7C UNIT B MOR S-74
477-250-013-000	A	100.00	100.00	1	LOT 13 WOODCREEK OAKS UNIT 9-B S-14
477-640-019-000	A	100.00	100.00	1	LOT 191 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-560-029-000	A	100.00	100.00	1	LOT 29 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-660-021-000	A	100.00	100.00	1	LOT 124 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-380-028-000	A	100.00	100.00	1	LOT 161 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-500-007-000	A	100.00	100.00	1	LOT 67 WOODCREEK OAKS VILL 4-PH B T-66
477-410-022-000	A	100.00	100.00	1	LOT 71 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-260-018-000	A	100.00	100.00	1	LOT 86 WOODCREEK OAKS UNIT 9-C S-15
480-080-069-000	A	100.00	100.00	1	LOT 426 B & POR 431 B SILVERADO OAKS U7 PH F T-82
480-010-006-000	A	100.00	100.00	1	LOT 6 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-420-045-000	A	100.00	100.00	1	LOT 394 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-340-016-000	A	100.00	100.00	1	LOT 99 WOODCREEK OAKS VILLAGE 7B S-32
477-620-008-000	A	100.00	100.00	1	LOT 206 WOODCREEK OAKS VILL 2 U-20
477-420-009-000	A	100.00	100.00	1	LOT 358 WOODCREEK OAKS VILLAGE II UNIT A T-7
480-090-022-000	A	100.00	100.00	1	LOT 374 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-380-046-000	A	100.00	100.00	1	LOT 179 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-420-063-000	A	100.00	100.00	1	LOT 427 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-440-038-000	A	100.00	100.00	1	LOT 38 RIDGEWOOD OAKS UNIT NO 5 T-59
477-200-062-000	A	100.00	100.00	1	LOT 205 RIDGEWOOD UNIT 3 MOR S-41
477-660-003-000	A	100.00	100.00	1	LOT 106 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-380-064-000	A	100.00	100.00	1	POR LOT 121 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-090-004-000	A	100.00	100.00	1	LOT 357 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-590-006-000	A	100.00	100.00	1	LOT 73 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-570-010-000	A	100.00	100.00	1	LOT 331 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-010-060-000	A	100.00	100.00	1	LOT 60 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-580-005-000	A	100.00	100.00	1	LOT 85 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-580-023-000	A	100.00	100.00	1	LOT 103 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-190-029-000	A	100.00	100.00	1	LOT 38 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-550-012-000	A	100.00	100.00	1	LOT 47 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-310-053-000	A	100.00	100.00	1	LOT 242 WOODCREEK OAKS UNIT 10 S-22
477-420-027-000	A	100.00	100.00	1	LOT 376 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-620-026-000	A	100.00	100.00	1	LOT 224 WOODCREEK OAKS VILL 2 U-20
477-290-021-000	A	100.00	100.00	1	LOT 133 WOODCREEK OAKS UNIT 9-D S-16
477-410-004-000	A	100.00	100.00	1	LOT 48 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-070-016-000	A	100.00	100.00	1	LOT 75 SILVERADO OAKS UNIT NO 7 PH A T-77
477-300-029-000	A	100.00	100.00	1	LOT 289 WOODCREEK OAKS UNIT 10 S-22
477-310-035-000	A	100.00	100.00	1	LOT 224 WOODCREEK OAKS UNIT 10 S-22
477-370-009-000	A	100.00	100.00	1	LOT 85 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-290-003-000	A	100.00	100.00	1	LOT 55 WOODCREEK OAKS UNIT 9-D S-16
477-370-027-000	A	100.00	100.00	1	LOT 103 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-030-029-000	A	100.00	100.00	1	LOT 116 SILVERADO OAKS UNIT NO 7 PH A T-77
477-430-011-000	A	100.00	100.00	1	LOT 410 WOODCREEK OAKS VILLAGE 11 UNIT B T-8

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-310-017-000	A	100.00	100.00	1	LOT 206 WOODCREEK OAKS UNIT 10 S-22
477-200-008-000	A	100.00	100.00	1	LOT 8 RIDGEWOOD UNIT 1 R-87
477-270-020-000	A	100.00	100.00	1	LOT 104 WOODCREEK OAKS UNIT 9-C S-15
477-320-041-000	A	100.00	100.00	1	LOT 51 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-530-018-000	A	100.00	100.00	1	LOT 270 WOODCREEK OAKS VILL 3 T-67
480-010-042-000	A	100.00	100.00	1	LOT 42 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-320-005-000	A	100.00	100.00	1	LOT 15 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-340-034-000	A	100.00	100.00	1	LOT 117 WOODCREEK OAKS VILLAGE 7B S-32
477-210-032-000	A	100.00	100.00	1	LOT 223 RIDGEWOOD UNIT 4 S-100
477-610-016-000	A	100.00	100.00	1	LOT 178 WOODCREEK OAKS VILL 2 U-20
477-360-039-000	A	100.00	100.00	1	LOT 131 RIDGEWOOD UNIT 2 S-40
477-230-028-000	A	100.00	100.00	1	LOT 68 RIDGEWOOD UNIT 1 R-87
477-230-046-000	A	100.00	100.00	1	POR LOTS 78 & 79 RIDGEWOOD UNIT 1 R-87
477-440-021-000	A	100.00	100.00	1	LOT 21 RIDGEWOOD OAKS UNIT NO 5 T-59
477-200-026-000	A	100.00	100.00	1	LOT 169 RIDGEWOOD UNIT 3 MOR S-41
477-200-044-000	A	100.00	100.00	1	LOT 187 RIDGEWOOD UNIT 3 MOR S-41
477-320-023-000	A	100.00	100.00	1	LOT 33 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-020-030-000	A	100.00	100.00	1	LOT 110 SILVERADO VILLAGE UNIT 2 PH B S-39
477-210-050-000	A	100.00	100.00	1	LOT 241 RIDGEWOOD UNIT 4 S-100
480-090-039-000	A	100.00	100.00	1	LOT 393 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-010-024-000	A	100.00	100.00	1	LOT 24 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-380-011-000	A	100.00	100.00	1	LOT 144 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-370-045-000	A	100.00	100.00	1	LOT 130 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-660-038-000	A	100.00	100.00	1	LOT 174 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-640-002-000	A	100.00	100.00	1	LOT 101 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-440-003-000	A	100.00	100.00	1	LOT 3 RIDGEWOOD OAKS UNIT NO 5 T-59
477-210-002-000	A	100.00	100.00	1	LOT 40 RIDGEWOOD UNIT 1 R-87
477-360-037-000	A	100.00	100.00	1	LOT 129 RIDGEWOOD UNIT 2 S-40
480-020-040-000	A	100.00	100.00	1	LOT 120 SILVERADO VILLAGE UNIT 2 PH B S-39
477-430-023-000	A	100.00	100.00	1	LOT 453 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-240-007-000	A	100.00	100.00	1	LOT 35 WOODCREEK OAKS UNIT 9-A S-13
477-560-012-000	A	100.00	100.00	1	LOT 12 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-360-019-000	A	100.00	100.00	1	LOT 111 RIDGEWOOD UNIT 2 S-40
477-390-026-000	A	100.00	100.00	1	LOT 90 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-050-009-000	A	100.00	100.00	1	LOT 9 SILVERADO OAKS UNIT NO 7 PH A T-77
480-090-037-000	A	100.00	100.00	1	LOT 391 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-540-008-000	A	100.00	100.00	1	LOT 245 WOODCREEK OAKS VILL 3 T-67
477-590-001-000	A	100.00	100.00	1	LOT 68 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-360-073-000	A	100.00	100.00	1	LOT 165 RIDGEWOOD UNIT 2 S-40
477-240-025-000	A	100.00	100.00	1	LOT 175 WOODCREEK OAKS UNIT 9-A S-13
480-010-079-000	A	100.00	100.00	1	LOT 79 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-430-005-000	A	100.00	100.00	1	LOT 404 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-350-034-000	A	100.00	100.00	1	LOT 152 WOODCREEK OAKS VILLAGE 7C S-33
477-270-014-000	A	100.00	100.00	1	LOT 98 WOODCREEK OAKS UNIT 9-C S-15
480-020-022-000	A	100.00	100.00	1	LOT 102 SILVERADO VILLAGE UNIT 2 PH B S-39
477-400-016-000	A	100.00	100.00	1	LOT 31 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-650-017-000	A	100.00	100.00	1	LOT 128 WOODCREEK OAKS UNIT #1 PH C MOR U-75
480-040-002-000	A	100.00	100.00	1	LOT 37 SILVERADO OAKS UNIT NO 7 PH A T-77
477-280-017-000	A	100.00	100.00	1	LOT 140 WOODCREEK OAKS UNIT 9-D S-16
477-450-003-000	A	100.00	100.00	1	LOT 3 WOODCREEK OAKS VILL 4-PH A T-65
477-200-059-000	A	100.00	100.00	1	LOT 202 RIDGEWOOD UNIT 3 MOR S-41
477-320-011-000	A	100.00	100.00	1	LOT 21 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-390-008-000	A	100.00	100.00	1	LOT 8 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-270-032-000	A	100.00	100.00	1	LOT 116 WOODCREEK OAKS UNIT 9-C S-15
480-020-004-000	A	100.00	100.00	1	LOT 84 SILVERADO VILLAGE UNIT 2 PH B S-39
480-080-070-000	A	100.00	100.00	1	LOT 431 A & POR 431 B SILVERADO OAKS U7 PH F T-82
477-190-012-000	A	100.00	100.00	1	LOT 21 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-380-005-000	A	100.00	100.00	1	LOT 138 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-220-009-000	A	100.00	100.00	1	LOT 66 RIDGEWOOD UNIT 1 R-87
480-010-001-000	A	100.00	100.00	1	LOT 1 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-630-002-000	A	100.00	100.00	1	LOT 140 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-550-029-000	A	100.00	100.00	1	LOT 64 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-360-055-000	A	100.00	100.00	1	LOT 147 RIDGEWOOD UNIT 2 S-40
477-630-019-000	A	100.00	100.00	1	LOT 157 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-190-047-000	A	100.00	100.00	1	LOT 128 WOODCREEK OAKS VILLAGE 8 UNIT A S-3

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-490-013-000	A	100.00	100.00	1	LOT 83 WOODCREEK OAKS VILL 4 PHASE B T-66
477-300-012-000	A	100.00	100.00	1	LOT 272 WOODCREEK OAKS UNIT 10 S-22
477-190-065-000	A	100.00	100.00	1	LOT 146 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-300-047-000	A	100.00	100.00	1	LOT 315 WOODCREEK OAKS UNIT 10 S-22
480-030-012-000	A	100.00	100.00	1	LOT 59 SILVERADO OAKS UNIT NO 7 PH A T-77
477-420-058-000	A	100.00	100.00	1	LOT 422 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-570-033-000	A	100.00	100.00	1	LOT 442 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-480-009-000	A	100.00	100.00	1	LOT 53 WOODCREEK OAKS VILL 4 PHASE B T-66
480-040-019-000	A	100.00	100.00	1	LOT 118 SILVERADO OAKS UNIT NO 7 PH A T-77
477-350-016-000	A	100.00	100.00	1	LOT 134 WOODCREEK OAKS VILLAGE 7C S-33
477-410-030-000	A	100.00	100.00	1	LOT 79 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-580-011-000	A	100.00	100.00	1	LOT 91 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-360-002-000	A	100.00	100.00	1	LOT 94 RIDGEWOOD UNIT 2 S-40
477-330-018-000	A	100.00	100.00	1	LOT 65 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-570-015-000	A	100.00	100.00	1	LOT 336 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-510-007-000	A	100.00	100.00	1	LOT 308 WOODCREEK OAKS VILL 3 T-67
477-650-035-000	A	100.00	100.00	1	LOT 146 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-380-048-000	A	100.00	100.00	1	LOT 181 WOODCREEK OAKS VILLAGE #12 PH C S-52
480-080-016-000	A	100.00	100.00	1	LOT 410A SILVERADO OAKS UNIT 7 PH F MOR T-82
480-020-057-000	A	100.00	100.00	1	LOT 137 SILVERADO VILLAGE UNIT 2 PH B S-39
477-600-013-000	A	100.00	100.00	1	LOT 194 WOODCREEK OAKS VILL 2 U-20
477-210-019-000	A	100.00	100.00	1	LOT 91 RIDGEWOOD UNIT 1 R-87
477-530-024-000	A	100.00	100.00	1	LOT 282 WOODCREEK OAKS VILL 3 T-67
477-340-008-000	A	100.00	100.00	1	LOT 91 WOODCREEK OAKS VILLAGE 7B S-32
480-050-010-000	A	100.00	100.00	1	LOT 10 SILVERADO OAKS UNIT NO 7 PH A T-77
477-370-015-000	A	100.00	100.00	1	LOT 91 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-020-029-000	A	100.00	100.00	1	LOT 109 SILVERADO VILLAGE UNIT 2 PH B S-39
477-200-034-000	A	100.00	100.00	1	LOT 177 RIDGEWOOD UNIT 3 MOR S-41
480-010-072-000	A	100.00	100.00	1	LOT 72 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-660-031-000	A	100.00	100.00	1	LOT 167 WOODCREEK OAKS VILLAGE 5B MOR V-28
480-090-012-000	A	100.00	100.00	1	LOT 365 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-340-026-000	A	100.00	100.00	1	LOT 109 WOODCREEK OAKS VILLAGE 7B S-32
480-070-008-000	A	100.00	100.00	1	LOT 67 SILVERADO OAKS UNIT NO 7 PH A T-77
477-520-011-000	A	100.00	100.00	1	LOT 296 WOODCREEK OAKS VILL 3 T-67
477-410-012-000	A	100.00	100.00	1	LOT 56 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-210-037-000	A	100.00	100.00	1	LOT 228 RIDGEWOOD UNIT 4 S-100
477-660-013-000	A	100.00	100.00	1	LOT 116 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-370-033-000	A	100.00	100.00	1	LOT 109 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-060-005-000	A	100.00	100.00	1	LOT 25 SILVERADO OAKS UNIT NO 7 PH A T-77
477-200-052-000	A	100.00	100.00	1	LOT 195 RIDGEWOOD UNIT 3 MOR S-41
477-550-004-000	A	100.00	100.00	1	LOT 37 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-360-020-000	A	100.00	100.00	1	LOT 112 RIDGEWOOD UNIT 2 S-40
477-250-021-000	A	100.00	100.00	1	LOT 23 WOODCREEK OAKS UNIT 9-B S-14
480-010-036-000	A	100.00	100.00	1	LOT 36 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-220-010-000	A	100.00	100.00	1	LOT 81 RIDGEWOOD UNIT 1 R-87
477-320-028-000	A	100.00	100.00	1	LOT 38 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-070-026-000	A	100.00	100.00	1	LOT 85 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-055-000	A	100.00	100.00	1	LOT 246 RIDGEWOOD UNIT 4 S-100
477-320-046-000	A	100.00	100.00	1	LOT 56 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-550-022-000	A	100.00	100.00	1	LOT 57 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-010-018-000	A	100.00	100.00	1	LOT 18 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-230-005-000	A	100.00	100.00	1	LOT 27 RIDGEWOOD UNIT 1 R-87
477-260-006-000	A	100.00	100.00	1	LOT 74 WOODCREEK OAKS UNIT 9-C S-15
480-030-030-000	A	100.00	100.00	1	LOT 117 SILVERADO OAKS UNIT NO 7 PH A T-77
477-230-023-000	A	100.00	100.00	1	LOT 57 RIDGEWOOD UNIT 1 R-87
477-250-003-000	A	100.00	100.00	1	LOT 3 WOODCREEK OAKS UNIT 9-B S-14
477-200-070-000	A	100.00	100.00	1	LOT 213 RIDGEWOOD UNIT 3 MOR S-41
477-310-043-000	A	100.00	100.00	1	LOT 232 WOODCREEK OAKS UNIT 10 S-22
477-620-016-000	A	100.00	100.00	1	LOT 214 WOODCREEK OAKS VILL 2 U-20
477-420-051-000	A	100.00	100.00	1	LOT 400 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-300-030-000	A	100.00	100.00	1	LOT 298 WOODCREEK OAKS UNIT 10 S-22
477-630-020-000	A	100.00	100.00	1	LOT 158 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-610-008-000	A	100.00	100.00	1	LOT 170 WOODCREEK OAKS VILL 2 U-20
477-470-002-000	A	100.00	100.00	1	LOT 15 WOODCREEK OAKS VILL 4-PH A T-65
477-190-030-000	A	100.00	100.00	1	LOT 39 WOODCREEK OAKS VILLAGE 8 UNIT A S-3

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-310-025-000	A	100.00	100.00	1	LOT 214 WOODCREEK OAKS UNIT 10 S-22
477-640-014-000	A	100.00	100.00	1	LOT 162 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-330-001-000	A	100.00	100.00	1	LOT 1 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-260-024-000	A	100.00	100.00	1	LOT 92 WOODCREEK OAKS UNIT 9-C S-15
477-290-013-000	A	100.00	100.00	1	LOT 125 WOODCREEK OAKS UNIT 9-D S-16
477-310-007-000	A	100.00	100.00	1	LOT 196 WOODCREEK OAKS UNIT 10 S-22
477-380-023-000	A	100.00	100.00	1	LOT 156 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-420-015-000	A	100.00	100.00	1	LOT 364 WOODCREEK OAKS VILLAGE II UNIT A T-7
480-040-020-000	A	100.00	100.00	1	LOT 119 SILVERADO OAKS UNIT NO 7 PH A T-77
477-480-010-000	A	100.00	100.00	1	LOT 54 WOODCREEK OAKS VILL 4 PHASE B T-66
477-580-028-000	A	100.00	100.00	1	LOT 108 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-380-041-000	A	100.00	100.00	1	LOT 174 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-440-031-000	A	100.00	100.00	1	LOT 31 RIDGEWOOD OAKS UNIT NO 5 T-59
477-530-006-000	A	100.00	100.00	1	LOT 251 WOODCREEK OAKS VILL 3 T-67
477-610-026-000	A	100.00	100.00	1	LOT 229 WOODCREEK OAKS VILL 2 U-20
477-210-020-000	A	100.00	100.00	1	LOT 92 RIDGEWOOD UNIT 1 R-87
477-420-033-000	A	100.00	100.00	1	LOT 382 WOODCREEK OAKS VILLAGE II UNIT A T-7
480-010-054-000	A	100.00	100.00	1	LOT 54 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-200-016-000	A	100.00	100.00	1	LOT 16 RIDGEWOOD UNIT 1 R-87
477-440-013-000	A	100.00	100.00	1	LOT 13 RIDGEWOOD OAKS UNIT NO 5 T-59
477-560-030-000	A	100.00	100.00	1	LOT 30 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-360-065-000	A	100.00	100.00	1	LOT 157 RIDGEWOOD UNIT 2 S-40
480-070-001-000	A	100.00	100.00	1	LOT 60 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-030-000	A	100.00	100.00	1	LOT 221 RIDGEWOOD UNIT 4 S-100
477-660-048-000	A	100.00	100.00	1	LOT 184 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-560-002-000	A	100.00	100.00	1	LOT 2 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-080-024-000	A	100.00	100.00	1	LOT 416 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-280-009-000	A	100.00	100.00	1	LOT 48 WOODCREEK OAKS UNIT 9-D S-16
477-310-058-000	A	100.00	100.00	1	LOT 247 WOODCREEK OAKS UNIT 10 S-22
477-570-025-000	A	100.00	100.00	1	LOT 434 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-210-012-000	A	100.00	100.00	1	LOT 50 RIDGEWOOD UNIT 1 R-87
480-020-050-000	A	100.00	100.00	1	LOT 130 SILVERADO VILLAGE UNIT 2 PH B S-39
477-350-024-000	A	100.00	100.00	1	LOT 142 WOODCREEK OAKS VILLAGE 7C S-33
477-400-006-000	A	100.00	100.00	1	LOT 21 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-280-027-000	A	100.00	100.00	1	LOT 150 WOODCREEK OAKS UNIT 9-D S-16
480-040-012-000	A	100.00	100.00	1	LOT 47 SILVERADO OAKS UNIT NO 7 PH A T-77
477-270-004-000	A	100.00	100.00	1	LOT 63 WOODCREEK OAKS UNIT 9-C S-15
480-080-042-000	A	100.00	100.00	1	LOT 430 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-020-032-000	A	100.00	100.00	1	LOT 112 SILVERADO VILLAGE UNIT 2 PH B S-39
477-340-001-000	A	100.00	100.00	1	LOT 84 WOODCREEK OAKS VILLAGE 7B S-32
477-360-047-000	A	100.00	100.00	1	LOT 139 RIDGEWOOD UNIT 2 S-40
477-570-007-000	A	100.00	100.00	1	LOT 328 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-380-013-000	A	100.00	100.00	1	LOT 146 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-390-036-000	A	100.00	100.00	1	LOT 100 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-510-015-000	A	100.00	100.00	1	LOT 316 WOODCREEK OAKS VILL 3 T-67
477-540-018-000	A	100.00	100.00	1	LOT 259 WOODCREEK OAKS VILL 3 T-67
480-010-069-000	A	100.00	100.00	1	LOT 69 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-200-049-000	A	100.00	100.00	1	LOT 192 RIDGEWOOD UNIT 3 MOR S-41
477-650-027-000	A	100.00	100.00	1	LOT 138 WOODCREEK OAKS UNIT #1 PH C MOR U-75
480-030-019-000	A	100.00	100.00	1	LOT 100 SILVERADO OAKS UNIT NO 7 PH A T-77
477-200-067-000	A	100.00	100.00	1	LOT 210 RIDGEWOOD UNIT 3 MOR S-41
477-390-018-000	A	100.00	100.00	1	LOT 42 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-650-009-000	A	100.00	100.00	1	LOT 120 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-430-013-000	A	100.00	100.00	1	LOT 412 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-460-016-000	A	100.00	100.00	1	LOT 38 WOODCREEK OAKS VILL 4-PH A T-65
477-630-012-000	A	100.00	100.00	1	LOT 150 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-500-010-000	A	100.00	100.00	1	LOT 70 WOODCREEK OAKS VILL 4-PH B T-66
480-020-014-000	A	100.00	100.00	1	LOT 94 SILVERADO VILLAGE UNIT 2 PH B S-39
477-350-042-000	A	100.00	100.00	1	LOT 160 WOODCREEK OAKS VILLAGE 7C S-33
477-300-019-000	A	100.00	100.00	1	LOT 279 WOODCREEK OAKS UNIT 10 S-22
477-270-022-000	A	100.00	100.00	1	LOT 106 WOODCREEK OAKS UNIT 9-C S-15
480-050-017-000	A	100.00	100.00	1	LOT 17 SILVERADO OAKS UNIT NO 7 PH A T-77
480-080-060-000	A	100.00	100.00	1	POR LT 428B SILVERADO OAKS UNIT 7 PH F MOR T-82
477-420-068-000	A	100.00	100.00	1	LOT 432 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-300-002-000	A	100.00	100.00	1	LOT 262 WOODCREEK OAKS UNIT 10 S-22

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-190-019-000	A	100.00	100.00	1	LOT 28 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-330-026-000	A	100.00	100.00	1	LOT 73 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-600-005-000	A	100.00	100.00	1	LOT 161 WOODCREEK OAKS VILL 2 U-20
477-300-037-000	A	100.00	100.00	1	LOT 305 WOODCREEK OAKS UNIT 10 S-22
477-310-061-000	A	100.00	100.00	1	LOT 250 WOODCREEK OAKS UNIT 10 S-22
477-190-037-000	A	100.00	100.00	1	LOT 90 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
480-030-002-000	A	100.00	100.00	1	LOT 49 SILVERADO OAKS UNIT NO 7 PH A T-77
477-610-001-000	A	100.00	100.00	1	LOT 163 WOODCREEK OAKS VILL 2 U-20
477-250-011-000	A	100.00	100.00	1	LOT 11 WOODCREEK OAKS UNIT 9-B S-14
477-360-012-000	A	100.00	100.00	1	LOT 104 RIDGEWOOD UNIT 2 S-40
477-410-020-000	A	100.00	100.00	1	LOT 69 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-240-015-000	A	100.00	100.00	1	LOT 165 WOODCREEK OAKS UNIT 9-A S-13
477-350-006-000	A	100.00	100.00	1	LOT 124 WOODCREEK OAKS VILLAGE 7C S-33
477-490-005-000	A	100.00	100.00	1	LOT 59 WOODCREEK OAKS VILL 4 PHASE B T-66
477-650-045-000	A	100.00	100.00	1	LOT 156 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-190-055-000	A	100.00	100.00	1	LOT 136 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
480-090-020-000	A	100.00	100.00	1	LOT 372B SILVERADO OAKS UNIT 7 PH F MOR T-82
477-490-023-000	A	100.00	100.00	1	LOT 97 WOODCREEK OAKS VILL 4 PHASE B T-66
477-240-033-000	A	100.00	100.00	1	LOT 183 WOODCREEK OAKS UNIT 9-A S-13
477-560-019-000	A	100.00	100.00	1	LOT 19 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-330-008-000	A	100.00	100.00	1	LOT 8 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-080-006-000	A	100.00	100.00	1	LOT 388 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-400-024-000	A	100.00	100.00	1	LOT 39 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-520-003-000	A	100.00	100.00	1	LOT 276 WOODCREEK OAKS VILL 3 T-67
480-020-039-000	A	100.00	100.00	1	LOT 119 SILVERADO VILLAGE UNIT 2 PH B S-39
477-590-008-000	A	100.00	100.00	1	LOT 75 WOODCREEK OAKS UNIT 1 PH B MOR U-4
480-090-002-000	A	100.00	100.00	1	LOT 355 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-540-001-000	A	100.00	100.00	1	LOT 238 WOODCREEK OAKS VILL 3 T-67
480-090-030-000	A	100.00	100.00	1	LOT 380 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-010-062-000	A	100.00	100.00	1	LOT 62 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-580-003-000	A	100.00	100.00	1	LOT 83 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-200-024-000	A	100.00	100.00	1	LOT 167 RIDGEWOOD UNIT 3 MOR S-41
477-210-047-000	A	100.00	100.00	1	LOT 238 RIDGEWOOD UNIT 4 S-100
477-230-013-000	A	100.00	100.00	1	LOT 35 RIDGEWOOD UNIT 1 R-87
477-280-010-000	A	100.00	100.00	1	LOT 49 WOODCREEK OAKS UNIT 9-D S-16
477-580-021-000	A	100.00	100.00	1	LOT 101 WOODCREEK OAKS UNIT 1 PH B MOR U-4
480-010-026-000	A	100.00	100.00	1	LOT 26 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-210-065-000	A	100.00	100.00	1	LOT 256 RIDGEWOOD UNIT 4 S-100
477-360-030-000	A	100.00	100.00	1	LOT 122 RIDGEWOOD UNIT 2 S-40
480-010-080-000	A	100.00	100.00	1	LOT 80 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-200-042-000	A	100.00	100.00	1	LOT 185 RIDGEWOOD UNIT 3 MOR S-41
477-660-041-000	A	100.00	100.00	1	LOT 177 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-550-014-000	A	100.00	100.00	1	LOT 49 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-230-031-000	A	100.00	100.00	1	LOT 71 RIDGEWOOD UNIT 1 R-87
477-310-051-000	A	100.00	100.00	1	LOT 240 WOODCREEK OAKS UNIT 10 S-22
477-370-043-000	A	100.00	100.00	1	LOT 128 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-290-023-000	A	100.00	100.00	1	LOT 135 WOODCREEK OAKS UNIT 9-D S-16
477-410-002-000	A	100.00	100.00	1	LOT 46 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-070-018-000	A	100.00	100.00	1	LOT 77 SILVERADO OAKS UNIT NO 7 PH A T-77
477-420-025-000	A	100.00	100.00	1	LOT 374 WOODCREEK OAKS VILLAGE II UNIT A T-7
480-030-020-000	A	100.00	100.00	1	LOT 101 SILVERADO OAKS UNIT NO 7 PH A T-77
480-080-067-000	A	100.00	100.00	1	LOT 411 A & POR 411 B SILVERADO OAKS U7 PH F T-82
477-660-023-000	A	100.00	100.00	1	LOT 126 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-270-029-000	A	100.00	100.00	1	LOT 113 WOODCREEK OAKS UNIT 9-C S-15
477-260-016-000	A	100.00	100.00	1	LOT 84 WOODCREEK OAKS UNIT 9-C S-15
477-650-010-000	A	100.00	100.00	1	LOT 121 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-310-033-000	A	100.00	100.00	1	LOT 222 WOODCREEK OAKS UNIT 10 S-22
477-500-009-000	A	100.00	100.00	1	LOT 69 WOODCREEK OAKS VILL 4-PH B T-66
477-550-032-000	A	100.00	100.00	1	LOT 67 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-010-008-000	A	100.00	100.00	1	LOT 8 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-620-006-000	A	100.00	100.00	1	LOT 204 WOODCREEK OAKS VILL 2 U-20
480-060-013-000	A	100.00	100.00	1	LOT 33 SILVERADO OAKS UNIT NO 7 PH A T-77
477-300-020-000	A	100.00	100.00	1	LOT 280 WOODCREEK OAKS UNIT 10 S-22
477-310-015-000	A	100.00	100.00	1	LOT 204 WOODCREEK OAKS UNIT 10 S-22
477-340-018-000	A	100.00	100.00	1	LOT 101 WOODCREEK OAKS VILLAGE 7B S-32

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-420-007-000	A	100.00	100.00	1	LOT 356 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-320-038-000	A	100.00	100.00	1	LOT 48 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-390-001-000	A	100.00	100.00	1	LOT 1 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-660-005-000	A	100.00	100.00	1	LOT 108 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-200-060-000	A	100.00	100.00	1	LOT 203 RIDGEWOOD UNIT 3 MOR S-41
477-320-003-000	A	100.00	100.00	1	LOT 13 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-460-006-000	A	100.00	100.00	1	LOT 18 WOODCREEK OAKS VILL 4-PH A T-65
477-610-018-000	A	100.00	100.00	1	LOT 180 WOODCREEK OAKS VILL 2 U-20
477-190-020-000	A	100.00	100.00	1	LOT 29 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-440-023-000	A	100.00	100.00	1	LOT 23 RIDGEWOOD OAKS UNIT NO 5 T-59
477-470-012-000	A	100.00	100.00	1	LOT 35 WOODCREEK OAKS VILL 4-PH A T-65
477-450-011-000	A	100.00	100.00	1	LOT 43 WOODCREEK OAKS VILL 4-PH A T-65
477-320-021-000	A	100.00	100.00	1	LOT 31 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-440-005-000	A	100.00	100.00	1	LOT 5 RIDGEWOOD OAKS UNIT NO 5 T-59
477-620-024-000	A	100.00	100.00	1	LOT 222 WOODCREEK OAKS VILL 2 U-20
477-640-004-000	A	100.00	100.00	1	LOT 103 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-410-019-000	A	100.00	100.00	1	LOT 68 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-310-068-000	A	100.00	100.00	1	LOT 257 WOODCREEK OAKS UNIT 10 S-22
477-420-043-000	A	100.00	100.00	1	LOT 392 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-640-022-000	A	100.00	100.00	1	LOT 194 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-370-007-000	A	100.00	100.00	1	LOT 83 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-250-028-000	A	100.00	100.00	1	LOT 30 WOODCREEK OAKS UNIT 9-B S-14
477-370-025-000	A	100.00	100.00	1	LOT 101 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-380-031-000	A	100.00	100.00	1	LOT 164 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-560-020-000	A	100.00	100.00	1	LOT 20 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-290-005-000	A	100.00	100.00	1	LOT 57 WOODCREEK OAKS UNIT 9-D S-16
477-420-061-000	A	100.00	100.00	1	LOT 425 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-200-006-000	A	100.00	100.00	1	LOT 6 RIDGEWOOD UNIT 1 R-87
480-010-044-000	A	100.00	100.00	1	LOT 44 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-090-019-000	A	100.00	100.00	1	LOT 372A SILVERADO OAKS UNIT 7 PH F MOR T-82
477-530-016-000	A	100.00	100.00	1	LOT 268 WOODCREEK OAKS VILL 3 T-67
477-480-012-000	A	100.00	100.00	1	LOT 88 WOODCREEK OAKS VILL 4 PHASE B T-66
477-350-023-000	A	100.00	100.00	1	LOT 141 WOODCREEK OAKS VILLAGE 7C S-33
477-520-008-000	A	100.00	100.00	1	LOT 293 WOODCREEK OAKS VILL 3 T-67
477-280-019-000	A	100.00	100.00	1	LOT 142 WOODCREEK OAKS UNIT 9-D S-16
477-510-014-000	A	100.00	100.00	1	LOT 315 WOODCREEK OAKS VILL 3 T-67
477-310-039-000	A	100.00	100.00	1	LOT 228 WOODCREEK OAKS UNIT 10 S-22
477-350-041-000	A	100.00	100.00	1	LOT 159 WOODCREEK OAKS VILLAGE 7C S-33
480-070-011-000	A	100.00	100.00	1	LOT 70 SILVERADO OAKS UNIT NO 7 PH A T-77
477-660-049-000	A	100.00	100.00	1	LOT 185 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-310-075-000	A	100.00	100.00	1	LOT 293 WOODCREEK OAKS UNIT 10 S-22
477-330-021-000	A	100.00	100.00	1	LOT 68 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-080-023-000	A	100.00	100.00	1	LOT 415 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-020-051-000	A	100.00	100.00	1	LOT 131 SILVERADO VILLAGE UNIT 2 PH B S-39
477-350-005-000	A	100.00	100.00	1	LOT 123 WOODCREEK OAKS VILLAGE 7C S-33
477-490-006-000	A	100.00	100.00	1	LOT 60 WOODCREEK OAKS VILL 4 PHASE B T-66
480-020-033-000	A	100.00	100.00	1	LOT 113 SILVERADO VILLAGE UNIT 2 PH B S-39
477-340-011-000	A	100.00	100.00	1	LOT 94 WOODCREEK OAKS VILLAGE 7B S-32
477-360-035-000	A	100.00	100.00	1	LOT 127 RIDGEWOOD UNIT 2 S-40
477-300-027-000	A	100.00	100.00	1	LOT 287 WOODCREEK OAKS UNIT 10 S-22
477-600-006-000	A	100.00	100.00	1	LOT 162 WOODCREEK OAKS VILL 2 U-20
480-020-015-000	A	100.00	100.00	1	LOT 95 SILVERADO VILLAGE UNIT 2 PH B S-39
480-030-009-000	A	100.00	100.00	1	LOT 56 SILVERADO OAKS UNIT NO 7 PH A T-77
477-390-028-000	A	100.00	100.00	1	LOT 92 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-030-027-000	A	100.00	100.00	1	LOT 114 SILVERADO OAKS UNIT NO 7 PH A T-77
477-330-003-000	A	100.00	100.00	1	LOT 3 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-300-009-000	A	100.00	100.00	1	LOT 269 WOODCREEK OAKS UNIT 10 S-22
477-360-017-000	A	100.00	100.00	1	LOT 109 RIDGEWOOD UNIT 2 S-40
477-370-029-000	A	100.00	100.00	1	LOT 105 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-200-048-000	A	100.00	100.00	1	LOT 191 RIDGEWOOD UNIT 3 MOR S-41
477-650-019-000	A	100.00	100.00	1	LOT 130 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-570-040-000	A	100.00	100.00	1	LOT 449 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-040-017-000	A	100.00	100.00	1	LOT 111 SILVERADO OAKS UNIT NO 7 PH A T-77
477-650-002-000	A	100.00	100.00	1	LOT 113 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-220-012-000	A	100.00	100.00	1	LOT 83 RIDGEWOOD UNIT 1 R-87

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-240-032-000	A	100.00	100.00	1	LOT 182 WOODCREEK OAKS UNIT 9-A S-13
477-250-001-000	A	100.00	100.00	1	LOT 1 WOODCREEK OAKS UNIT 9-B S-14
477-610-011-000	A	100.00	100.00	1	LOT 173 WOODCREEK OAKS VILL 2 U-20
477-190-027-000	A	100.00	100.00	1	LOT 36 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-650-037-000	A	100.00	100.00	1	LOT 148 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-210-017-000	A	100.00	100.00	1	LOT 89 RIDGEWOOD UNIT 1 R-87
477-420-029-000	A	100.00	100.00	1	LOT 378 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-570-022-000	A	100.00	100.00	1	LOT 343 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-360-053-000	A	100.00	100.00	1	LOT 145 RIDGEWOOD UNIT 2 S-40
477-400-005-000	A	100.00	100.00	1	LOT 20 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-190-045-000	A	100.00	100.00	1	LOT 101 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-560-027-000	A	100.00	100.00	1	LOT 27 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-460-013-000	A	100.00	100.00	1	LOT 25 WOODCREEK OAKS VILL 4-PH A T-65
477-270-007-000	A	100.00	100.00	1	LOT 66 WOODCREEK OAKS UNIT 9-C S-15
477-630-017-000	A	100.00	100.00	1	LOT 155 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-430-016-000	A	100.00	100.00	1	LOT 415 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
480-050-012-000	A	100.00	100.00	1	LOT 12 SILVERADO OAKS UNIT NO 7 PH A T-77
477-190-063-000	A	100.00	100.00	1	LOT 144 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-270-025-000	A	100.00	100.00	1	LOT 109 WOODCREEK OAKS UNIT 9-C S-15
477-400-023-000	A	100.00	100.00	1	LOT 38 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-090-010-000	A	100.00	100.00	1	LOT 363 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-300-045-000	A	100.00	100.00	1	LOT 313 WOODCREEK OAKS UNIT 10 S-22
477-560-009-000	A	100.00	100.00	1	LOT 9 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-410-010-000	A	100.00	100.00	1	LOT 54 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-570-004-000	A	100.00	100.00	1	LOT 325 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-360-071-000	A	100.00	100.00	1	LOT 163 RIDGEWOOD UNIT 2 S-40
477-280-002-000	A	100.00	100.00	1	LOT 41 WOODCREEK OAKS UNIT 9-D S-16
477-240-014-000	A	100.00	100.00	1	LOT 164 WOODCREEK OAKS UNIT 9-A S-13
477-550-015-000	A	100.00	100.00	1	LOT 50 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-320-026-000	A	100.00	100.00	1	LOT 36 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-070-028-000	A	100.00	100.00	1	LOT 87 SILVERADO OAKS UNIT NO 7 PH A T-77
477-280-020-000	A	100.00	100.00	1	LOT 143 WOODCREEK OAKS UNIT 9-D S-16
477-310-050-000	A	100.00	100.00	1	LOT 239 WOODCREEK OAKS UNIT 10 S-22
480-020-058-000	A	100.00	100.00	1	LOT 138 SILVERADO VILLAGE UNIT 2 PH B S-39
477-200-005-000	A	100.00	100.00	1	LOT 5 RIDGEWOOD UNIT 1 R-87
477-290-024-000	A	100.00	100.00	1	LOT 136 WOODCREEK OAKS UNIT 9-D S-16
477-540-011-000	A	100.00	100.00	1	LOT 248 WOODCREEK OAKS VILL 3 T-67
477-320-044-000	A	100.00	100.00	1	LOT 54 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-370-004-000	A	100.00	100.00	1	LOT 80 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-200-023-000	A	100.00	100.00	1	LOT 166 RIDGEWOOD UNIT 3 MOR S-41
477-310-032-000	A	100.00	100.00	1	LOT 221 WOODCREEK OAKS UNIT 10 S-22
477-530-031-000	A	100.00	100.00	1	LOT 289 WOODCREEK OAKS VILL 3 T-67
477-200-041-000	A	100.00	100.00	1	LOT 184 RIDGEWOOD UNIT 3 MOR S-41
477-660-042-000	A	100.00	100.00	1	LOT 178 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-310-014-000	A	100.00	100.00	1	LOT 203 WOODCREEK OAKS UNIT 10 S-22
477-370-022-000	A	100.00	100.00	1	LOT 98 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-530-013-000	A	100.00	100.00	1	LOT 265 WOODCREEK OAKS VILL 3 T-67
477-420-057-000	A	100.00	100.00	1	LOT 421 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-640-007-000	A	100.00	100.00	1	LOT 134 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-440-006-000	A	100.00	100.00	1	LOT 6 RIDGEWOOD OAKS UNIT NO 5 T-59
477-300-010-000	A	100.00	100.00	1	LOT 270 WOODCREEK OAKS UNIT 10 S-22
477-370-040-000	A	100.00	100.00	1	LOT 116 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-340-028-000	A	100.00	100.00	1	LOT 111 WOODCREEK OAKS VILLAGE 7B S-32
480-030-010-000	A	100.00	100.00	1	LOT 57 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-035-000	A	100.00	100.00	1	LOT 226 RIDGEWOOD UNIT 4 S-100
477-320-008-000	A	100.00	100.00	1	LOT 18 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-380-016-000	A	100.00	100.00	1	LOT 149 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-390-011-000	A	100.00	100.00	1	LOT 11 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-650-020-000	A	100.00	100.00	1	LOT 131 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-460-005-000	A	100.00	100.00	1	LOT 14 WOODCREEK OAKS VILL 4-PH A T-65
477-660-024-000	A	100.00	100.00	1	LOT 127 WOODCREEK OAKS VILLAGE 5B MOR V-28
480-010-038-000	A	100.00	100.00	1	LOT 38 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-620-005-000	A	100.00	100.00	1	LOT 203 WOODCREEK OAKS VILL 2 U-20
477-380-034-000	A	100.00	100.00	1	LOT 167 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-210-053-000	A	100.00	100.00	1	LOT 244 RIDGEWOOD UNIT 4 S-100

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-420-004-000	A	100.00	100.00	1	LOT 353 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-580-026-000	A	100.00	100.00	1	LOT 106 WOODCREEK OAKS UNIT 1 PH B MOR U-4
480-010-021-000	A	100.00	100.00	1	LOT 21 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-450-001-000	A	100.00	100.00	1	LOT 1 WOODCREEK OAKS VILL 4-PH A T-65
477-660-006-000	A	100.00	100.00	1	LOT 109 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-620-023-000	A	100.00	100.00	1	LOT 221 WOODCREEK OAKS VILL 2 U-20
477-570-029-000	A	100.00	100.00	1	LOT 438 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-010-056-000	A	100.00	100.00	1	LOT 56 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-190-010-000	A	100.00	100.00	1	LOT 19 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-610-028-000	A	100.00	100.00	1	LOT 231 WOODCREEK OAKS VILL 2 U-20
480-010-003-000	A	100.00	100.00	1	LOT 3 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-230-016-000	A	100.00	100.00	1	LOT 38 RIDGEWOOD UNIT 1 R-87
477-420-040-000	A	100.00	100.00	1	LOT 389 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-440-024-000	A	100.00	100.00	1	LOT 24 RIDGEWOOD OAKS UNIT NO 5 T-59
477-240-039-000	A	100.00	100.00	1	LOT 189 WOODCREEK OAKS UNIT 9-4 S-13
477-380-052-000	A	100.00	100.00	1	LOT 185 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-500-002-000	A	100.00	100.00	1	LOT 62 WOODCREEK OAKS VILL 4-PH B T-66
477-410-009-000	A	100.00	100.00	1	LOT 53 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-560-010-000	A	100.00	100.00	1	LOT 10 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-010-074-000	A	100.00	100.00	1	LOT 74 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-090-009-000	A	100.00	100.00	1	LOT 362 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-410-027-000	A	100.00	100.00	1	LOT 76 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-420-022-000	A	100.00	100.00	1	LOT 371 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-590-003-000	A	100.00	100.00	1	LOT 70 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-250-018-000	A	100.00	100.00	1	LOT 18 WOODCREEK OAKS UNIT 9-B S-14
477-260-013-000	A	100.00	100.00	1	LOT 81 WOODCREEK OAKS UNIT 9-C S-15
477-580-008-000	A	100.00	100.00	1	LOT 88 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-270-033-000	A	100.00	100.00	1	LOT 117 WOODCREEK OAKS UNIT 9-C S-15
477-300-053-000	A	100.00	100.00	1	LOT 321 WOODCREEK OAKS UNIT 10 S-22
480-030-017-000	A	100.00	100.00	1	LOT 98 SILVERADO OAKS UNIT NO 7 PH A T-77
477-510-004-000	A	100.00	100.00	1	LOT 305 WOODCREEK OAKS VILL 3 T-67
477-360-009-000	A	100.00	100.00	1	LOT 101 RIDGEWOOD UNIT 2 S-40
477-310-029-000	A	100.00	100.00	1	LOT 218 WOODCREEK OAKS UNIT 10 S-22
477-360-027-000	A	100.00	100.00	1	LOT 119 RIDGEWOOD UNIT 2 S-40
477-480-002-000	A	100.00	100.00	1	LOT 46 WOODCREEK OAKS VILL 4 PHASE B T-66
477-270-015-000	A	100.00	100.00	1	LOT 99 WOODCREEK OAKS UNIT 9-C S-15
477-190-053-000	A	100.00	100.00	1	LOT 134 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-490-016-000	A	100.00	100.00	1	LOT 86 WOODCREEK OAKS VILL 4 PHASE B T-66
477-430-024-000	A	100.00	100.00	1	LOT 454 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-300-017-000	A	100.00	100.00	1	LOT 277 WOODCREEK OAKS UNIT 10 S-22
480-050-019-000	A	100.00	100.00	1	LOT 19 SILVERADO OAKS UNIT NO 7 PH A T-77
480-020-061-000	A	100.00	100.00	1	LOT 141 SILVERADO VILLAGE UNIT 2 PH B S-39
477-360-063-000	A	100.00	100.00	1	LOT 155 RIDGEWOOD UNIT 2 S-40
477-590-011-000	A	100.00	100.00	1	LOT 78 WOODCREEK OAKS UNIT 1 PH B MOR U-4
480-080-013-000	A	100.00	100.00	1	LOT 407 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-320-001-000	A	100.00	100.00	1	LOT 11 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-350-031-000	A	100.00	100.00	1	LOT 149 WOODCREEK OAKS VILLAGE 7C S-33
477-600-016-000	A	100.00	100.00	1	LOT 197 WOODCREEK OAKS VILL 2 U-20
477-470-010-000	A	100.00	100.00	1	LOT 33 WOODCREEK OAKS VILL 4-PH A T-65
480-090-045-000	A	100.00	100.00	1	LOT 398 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-360-045-000	A	100.00	100.00	1	LOT 137 RIDGEWOOD UNIT 2 S-40
480-010-011-000	A	100.00	100.00	1	LOT 11 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-020-043-000	A	100.00	100.00	1	LOT 123 SILVERADO VILLAGE UNIT 2 PH B S-39
480-080-031-000	A	100.00	100.00	1	LOT 423 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-350-013-000	A	100.00	100.00	1	LOT 131 WOODCREEK OAKS VILLAGE 7C S-33
477-370-039-000	A	100.00	100.00	1	LOT 115 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-390-021-000	A	100.00	100.00	1	LOT 85 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-380-006-000	A	100.00	100.00	1	LOT 139 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-240-022-000	A	100.00	100.00	1	LOT 172 WOODCREEK OAKS UNIT 9-A S-13
480-020-007-000	A	100.00	100.00	1	LOT 87 SILVERADO VILLAGE UNIT 2 PH B S-39
477-400-013-000	A	100.00	100.00	1	LOT 28 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-020-025-000	A	100.00	100.00	1	LOT 105 SILVERADO VILLAGE UNIT 2 PH B S-39
477-630-009-000	A	100.00	100.00	1	LOT 147 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-650-012-000	A	100.00	100.00	1	LOT 123 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-220-002-000	A	100.00	100.00	1	LOT 21 RIDGEWOOD UNIT 1 R-87

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-420-039-000	A	100.00	100.00	1	LOT 388 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-450-008-000	A	100.00	100.00	1	LOT 8 WOODCREEK OAKS VILL 4-PH A T-65
477-570-032-000	A	100.00	100.00	1	LOT 441 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-390-003-000	A	100.00	100.00	1	LOT 3 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-080-066-000	A	100.00	100.00	1	LOT 389 A & POR 389 B SILVERADO OAKS U7 PH F T-82
477-560-017-000	A	100.00	100.00	1	LOT 17 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-380-049-000	A	100.00	100.00	1	LOT 182 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-210-027-000	A	100.00	100.00	1	LOT 218 RIDGEWOOD UNIT 4 S-100
477-540-003-000	A	100.00	100.00	1	LOT 240 WOODCREEK OAKS VILL 3 T-67
477-190-017-000	A	100.00	100.00	1	LOT 26 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-570-014-000	A	100.00	100.00	1	LOT 335 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-050-002-000	A	100.00	100.00	1	LOT 2 SILVERADO OAKS UNIT NO 7 PH A T-77
477-430-006-000	A	100.00	100.00	1	LOT 405 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-580-001-000	A	100.00	100.00	1	LOT 81 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-330-028-000	A	100.00	100.00	1	LOT 75 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-040-009-000	A	100.00	100.00	1	LOT 44 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-009-000	A	100.00	100.00	1	LOT 47 RIDGEWOOD UNIT 1 R-87
477-280-012-000	A	100.00	100.00	1	LOT 51 WOODCREEK OAKS UNIT 9-D S-16
477-300-035-000	A	100.00	100.00	1	LOT 303 WOODCREEK OAKS UNIT 10 S-22
477-240-004-000	A	100.00	100.00	1	LOT 32 WOODCREEK OAKS UNIT 9-A S-13
477-190-035-000	A	100.00	100.00	1	LOT 88 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-530-005-000	A	100.00	100.00	1	LOT 250 WOODCREEK OAKS VILL 3 T-67
477-310-040-000	A	100.00	100.00	1	LOT 229 WOODCREEK OAKS UNIT 10 S-22
477-360-010-000	A	100.00	100.00	1	LOT 102 RIDGEWOOD UNIT 2 S-40
477-280-030-000	A	100.00	100.00	1	LOT 153 WOODCREEK OAKS UNIT 9-D S-16
477-290-016-000	A	100.00	100.00	1	LOT 128 WOODCREEK OAKS UNIT 9-D S-16
480-050-020-000	A	100.00	100.00	1	LOT 20 SILVERADO OAKS UNIT NO 7 PH A T-77
477-320-036-000	A	100.00	100.00	1	LOT 46 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-530-023-000	A	100.00	100.00	1	LOT 281 WOODCREEK OAKS VILL 3 T-67
477-310-022-000	A	100.00	100.00	1	LOT 211 WOODCREEK OAKS UNIT 10 S-22
477-370-014-000	A	100.00	100.00	1	LOT 90 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-520-001-000	A	100.00	100.00	1	LOT 274 WOODCREEK OAKS VILL 3 T-67
477-440-016-000	A	100.00	100.00	1	LOT 16 RIDGEWOOD OAKS UNIT NO 5 T-59
477-230-024-000	A	100.00	100.00	1	LOT 58 RIDGEWOOD UNIT 1 R-87
477-610-021-000	A	100.00	100.00	1	LOT 183 WOODCREEK OAKS VILL 2 U-20
477-200-013-000	A	100.00	100.00	1	LOT 13 RIDGEWOOD UNIT 1 R-87
477-210-045-000	A	100.00	100.00	1	LOT 236 RIDGEWOOD UNIT 4 S-100
477-370-032-000	A	100.00	100.00	1	LOT 108 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-660-052-000	A	100.00	100.00	1	LOT 188 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-310-004-000	A	100.00	100.00	1	LOT 193 WOODCREEK OAKS UNIT 10 S-22
477-230-042-000	A	100.00	100.00	1	LOT 74 & POR 75 RIDGEWOOD UNIT 1 R-87
480-010-028-000	A	100.00	100.00	1	LOT 28 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-560-035-000	A	100.00	100.00	1	LOT 45 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-210-063-000	A	100.00	100.00	1	LOT 254 RIDGEWOOD UNIT 4 S-100
477-320-018-000	A	100.00	100.00	1	LOT 28 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-660-034-000	A	100.00	100.00	1	LOT 170 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-200-031-000	A	100.00	100.00	1	LOT 174 RIDGEWOOD UNIT 3 MOR S-41
477-470-009-000	A	100.00	100.00	1	LOT 32 WOODCREEK OAKS VILL 4-PH A T-65
477-610-003-000	A	100.00	100.00	1	LOT 165 WOODCREEK OAKS VILL 2 U-20
477-660-016-000	A	100.00	100.00	1	LOT 119 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-250-008-000	A	100.00	100.00	1	LOT 8 WOODCREEK OAKS UNIT 9-B S-14
477-420-032-000	A	100.00	100.00	1	LOT 381 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-650-030-000	A	100.00	100.00	1	LOT 141 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-410-017-000	A	100.00	100.00	1	LOT 66 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-260-023-000	A	100.00	100.00	1	LOT 91 WOODCREEK OAKS UNIT 9-C S-15
477-640-015-000	A	100.00	100.00	1	LOT 163 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-420-014-000	A	100.00	100.00	1	LOT 363 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-570-039-000	A	100.00	100.00	1	LOT 448 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-380-024-000	A	100.00	100.00	1	LOT 157 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-250-026-000	A	100.00	100.00	1	LOT 28 WOODCREEK OAKS UNIT 9-B S-14
477-500-012-000	A	100.00	100.00	1	LOT 72 WOODCREEK OAKS VILL 4-PH B T-66
477-420-050-000	A	100.00	100.00	1	LOT 399 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-630-010-000	A	100.00	100.00	1	LOT 148 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-240-029-000	A	100.00	100.00	1	LOT 179 WOODCREEK OAKS UNIT 9-A S-13
477-200-066-000	A	100.00	100.00	1	LOT 209 RIDGEWOOD UNIT 3 MOR S-41

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-410-035-000	A	100.00	100.00	1	LOT 84 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-340-021-000	A	100.00	100.00	1	LOT 104 WOODCREEK OAKS VILLAGE 7B S-32
477-380-042-000	A	100.00	100.00	1	LOT 175 WOODCREEK OAKS VILLAGE #12 PH C S-52
480-010-046-000	A	100.00	100.00	1	LOT 46 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-230-006-000	A	100.00	100.00	1	LOT 28 RIDGEWOOD UNIT 1 R-87
477-440-034-000	A	100.00	100.00	1	LOT 34 RIDGEWOOD OAKS UNIT NO 5 T-59
477-260-005-000	A	100.00	100.00	1	LOT 73 WOODCREEK OAKS UNIT 9-C S-15
480-090-017-000	A	100.00	100.00	1	LOT 370 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-380-060-000	A	100.00	100.00	1	LOT 123 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-070-003-000	A	100.00	100.00	1	LOT 62 SILVERADO OAKS UNIT NO 7 PH A T-77
477-620-013-000	A	100.00	100.00	1	LOT 211 WOODCREEK OAKS VILL 2 U-20
480-010-064-000	A	100.00	100.00	1	LOT 64 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-060-006-000	A	100.00	100.00	1	LOT 26 SILVERADO OAKS UNIT NO 7 PH A T-77
477-550-007-000	A	100.00	100.00	1	LOT 40 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-210-010-000	A	100.00	100.00	1	LOT 48 RIDGEWOOD UNIT 1 R-87
477-340-003-000	A	100.00	100.00	1	LOT 86 WOODCREEK OAKS VILLAGE 7B S-32
480-040-010-000	A	100.00	100.00	1	LOT 45 SILVERADO OAKS UNIT NO 7 PH A T-77
480-070-021-000	A	100.00	100.00	1	LOT 80 SILVERADO OAKS UNIT NO 7 PH A T-77
477-580-018-000	A	100.00	100.00	1	LOT 98 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-310-057-000	A	100.00	100.00	1	LOT 246 WOODCREEK OAKS UNIT 10 S-22
477-550-025-000	A	100.00	100.00	1	LOT 60 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-190-043-000	A	100.00	100.00	1	LOT 99 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-300-025-000	A	100.00	100.00	1	LOT 285 WOODCREEK OAKS UNIT 10 S-22
477-600-008-000	A	100.00	100.00	1	LOT 189 WOODCREEK OAKS VILL 2 U-20
477-630-015-000	A	100.00	100.00	1	LOT 153 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-300-043-000	A	100.00	100.00	1	LOT 311 WOODCREEK OAKS UNIT 10 S-22
477-190-061-000	A	100.00	100.00	1	LOT 142 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
480-030-007-000	A	100.00	100.00	1	LOT 54 SILVERADO OAKS UNIT NO 7 PH A T-77
477-420-020-000	A	100.00	100.00	1	LOT 369 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-260-011-000	A	100.00	100.00	1	LOT 79 WOODCREEK OAKS UNIT 9-C S-15
480-030-025-000	A	100.00	100.00	1	LOT 106 SILVERADO OAKS UNIT NO 7 PH A T-77
477-300-007-000	A	100.00	100.00	1	LOT 267 WOODCREEK OAKS UNIT 10 S-22
477-640-010-000	A	100.00	100.00	1	LOT 137 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-480-014-000	A	100.00	100.00	1	LOT 90 WOODCREEK OAKS VILL 4 PHASE B T-66
480-040-015-000	A	100.00	100.00	1	LOT 109 SILVERADO OAKS UNIT NO 7 PH A T-77
477-350-021-000	A	100.00	100.00	1	LOT 139 WOODCREEK OAKS VILLAGE 7C S-33
477-510-012-000	A	100.00	100.00	1	LOT 313 WOODCREEK OAKS VILL 3 T-67
477-520-006-000	A	100.00	100.00	1	LOT 279 WOODCREEK OAKS VILL 3 T-67
477-570-037-000	A	100.00	100.00	1	LOT 446 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-330-005-000	A	100.00	100.00	1	LOT 5 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-080-003-000	A	100.00	100.00	1	LOT 386A SILVERADO OAKS UNIT 7 PH F MOR T-82
477-310-073-000	A	100.00	100.00	1	LOT 291 WOODCREEK OAKS UNIT 10 S-22
477-570-019-000	A	100.00	100.00	1	LOT 340 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-210-015-000	A	100.00	100.00	1	LOT 87 RIDGEWOOD UNIT 1 R-87
477-330-023-000	A	100.00	100.00	1	LOT 70 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-350-003-000	A	100.00	100.00	1	LOT 121 WOODCREEK OAKS VILLAGE 7C S-33
480-010-048-000	A	100.00	100.00	1	LOT 48 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-080-021-000	A	100.00	100.00	1	LOT 413 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-490-008-000	A	100.00	100.00	1	LOT 78 WOODCREEK OAKS VILL 4 PHASE B T-66
477-650-040-000	A	100.00	100.00	1	LOT 151 WOODCREEK OAKS UNIT #1 PH C MOR U-75
480-020-053-000	A	100.00	100.00	1	LOT 133 SILVERADO VILLAGE UNIT 2 PH B S-39
477-360-033-000	A	100.00	100.00	1	LOT 125 RIDGEWOOD UNIT 2 S-40
477-370-020-000	A	100.00	100.00	1	LOT 96 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-400-003-000	A	100.00	100.00	1	LOT 18 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-560-025-000	A	100.00	100.00	1	LOT 25 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-430-018-000	A	100.00	100.00	1	LOT 417 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
480-020-035-000	A	100.00	100.00	1	LOT 115 SILVERADO VILLAGE UNIT 2 PH B S-39
477-270-009-000	A	100.00	100.00	1	LOT 68 WOODCREEK OAKS UNIT 9-C S-15
477-390-031-000	A	100.00	100.00	1	LOT 95 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-270-027-000	A	100.00	100.00	1	LOT 111 WOODCREEK OAKS UNIT 9-C S-15
477-530-011-000	A	100.00	100.00	1	LOT 263 WOODCREEK OAKS VILL 3 T-67
480-020-017-000	A	100.00	100.00	1	LOT 97 SILVERADO VILLAGE UNIT 2 PH B S-39
477-400-021-000	A	100.00	100.00	1	LOT 36 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-560-007-000	A	100.00	100.00	1	LOT 7 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-570-002-000	A	100.00	100.00	1	LOT 323 WOODCREEK OAKS VILLAGE 11 UNIT C T-80

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-360-015-000	A	100.00	100.00	1	LOT 107 RIDGEWOOD UNIT 2 S-40
477-650-022-000	A	100.00	100.00	1	LOT 133 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-390-013-000	A	100.00	100.00	1	LOT 13 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-090-033-000	A	100.00	100.00	1	LOT 383 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-280-004-000	A	100.00	100.00	1	LOT 43 WOODCREEK OAKS UNIT 9-D S-16
477-240-012-000	A	100.00	100.00	1	LOT 162 WOODCREEK OAKS UNIT 9-A S-13
480-060-001-000	A	100.00	100.00	1	LOT 21 SILVERADO OAKS UNIT NO 7 PH A T-77
477-350-038-000	A	100.00	100.00	1	LOT 156 WOODCREEK OAKS VILLAGE 7C S-33
477-280-022-000	A	100.00	100.00	1	LOT 145 WOODCREEK OAKS UNIT 9-D S-16
477-650-004-000	A	100.00	100.00	1	LOT 115 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-230-001-000	A	100.00	100.00	1	LOT 23 RIDGEWOOD UNIT 1 R-87
477-540-013-000	A	100.00	100.00	1	LOT 254 WOODCREEK OAKS VILL 3 T-67
477-190-025-000	A	100.00	100.00	1	LOT 34 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-210-058-000	A	100.00	100.00	1	LOT 249 RIDGEWOOD UNIT 4 S-100
477-360-051-000	A	100.00	100.00	1	LOT 143 RIDGEWOOD UNIT 2 S-40
477-310-030-000	A	100.00	100.00	1	LOT 219 WOODCREEK OAKS UNIT 10 S-22
477-460-011-000	A	100.00	100.00	1	LOT 23 WOODCREEK OAKS VILL 4-PH A T-65
477-310-012-000	A	100.00	100.00	1	LOT 201 WOODCREEK OAKS UNIT 10 S-22
477-440-008-000	A	100.00	100.00	1	LOT 8 RIDGEWOOD OAKS UNIT NO 5 T-59
477-420-055-000	A	100.00	100.00	1	LOT 419 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-640-009-000	A	100.00	100.00	1	LOT 136 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-260-028-000	A	100.00	100.00	1	LOT 157 WOODCREEK OAKS UNIT 9-C S-15
477-380-018-000	A	100.00	100.00	1	LOT 151 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-320-006-000	A	100.00	100.00	1	LOT 16 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-460-003-000	A	100.00	100.00	1	LOT 12 WOODCREEK OAKS VILL 4-PH A T-65
477-420-019-000	A	100.00	100.00	1	LOT 368 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-580-024-000	A	100.00	100.00	1	LOT 104 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-290-008-000	A	100.00	100.00	1	LOT 120 WOODCREEK OAKS UNIT 9-D S-16
477-380-036-000	A	100.00	100.00	1	LOT 169 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-240-030-000	A	100.00	100.00	1	LOT 180 WOODCREEK OAKS UNIT 9-A S-13
477-200-003-000	A	100.00	100.00	1	LOT 3 RIDGEWOOD UNIT 1 R-87
477-420-037-000	A	100.00	100.00	1	LOT 386 WOODCREEK OAKS VILLAGE 11 UNIT A T-7
477-610-013-000	A	100.00	100.00	1	LOT 175 WOODCREEK OAKS VILL 2 U-20
477-370-002-000	A	100.00	100.00	1	LOT 78 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-570-020-000	A	100.00	100.00	1	LOT 341 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-440-026-000	A	100.00	100.00	1	LOT 26 RIDGEWOOD OAKS UNIT NO 5 T-59
477-380-054-000	A	100.00	100.00	1	LOT 117 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-340-013-000	A	100.00	100.00	1	LOT 96 WOODCREEK OAKS VILLAGE 7B S-32
480-090-025-000	A	100.00	100.00	1	LOT 377 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-650-029-000	A	100.00	100.00	1	LOT 140 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-660-044-000	A	100.00	100.00	1	LOT 180 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-200-038-000	A	100.00	100.00	1	LOT 181 RIDGEWOOD UNIT 3 MOR S-41
477-410-007-000	A	100.00	100.00	1	LOT 51 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-370-019-000	A	100.00	100.00	1	LOT 95 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-010-076-000	A	100.00	100.00	1	LOT 76 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-250-016-000	A	100.00	100.00	1	LOT 16 WOODCREEK OAKS UNIT 9-B S-14
480-010-041-000	A	100.00	100.00	1	LOT 41 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-340-031-000	A	100.00	100.00	1	LOT 114 WOODCREEK OAKS VILLAGE 7B S-32
477-410-025-000	A	100.00	100.00	1	LOT 74 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-090-007-000	A	100.00	100.00	1	LOT 360 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-210-033-000	A	100.00	100.00	1	LOT 224 RIDGEWOOD UNIT 4 S-100
477-590-005-000	A	100.00	100.00	1	LOT 72 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-270-010-000	A	100.00	100.00	1	LOT 69 WOODCREEK OAKS UNIT 9-C S-15
477-530-028-000	A	100.00	100.00	1	LOT 286 WOODCREEK OAKS VILL 3 T-67
477-200-056-000	A	100.00	100.00	1	LOT 199 RIDGEWOOD UNIT 3 MOR S-41
477-580-006-000	A	100.00	100.00	1	LOT 86 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-430-001-000	A	100.00	100.00	1	LOT 346 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-660-026-000	A	100.00	100.00	1	LOT 129 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-210-051-000	A	100.00	100.00	1	LOT 242 RIDGEWOOD UNIT 4 S-100
477-550-017-000	A	100.00	100.00	1	LOT 52 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-320-024-000	A	100.00	100.00	1	LOT 34 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-070-031-000	A	100.00	100.00	1	LOT 90 SILVERADO OAKS UNIT NO 7 PH A T-77
477-420-002-000	A	100.00	100.00	1	LOT 351 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-620-003-000	A	100.00	100.00	1	LOT 187 WOODCREEK OAKS VILL 2 U-20
480-010-023-000	A	100.00	100.00	1	LOT 23 SILVERADO VILLAGE UNIT 2 PHASE A S-38

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-070-013-000	A	100.00	100.00	1	LOT 72 SILVERADO OAKS UNIT NO 7 PH A T-77
477-660-008-000	A	100.00	100.00	1	LOT 111 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-320-042-000	A	100.00	100.00	1	LOT 52 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-360-058-000	A	100.00	100.00	1	LOT 150 RIDGEWOOD UNIT 2 S-40
477-200-074-000	A	100.00	100.00	1	LOT 217 RIDGEWOOD UNIT 3 MOR S-41
477-380-001-000	A	100.00	100.00	1	LOT 134 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-620-021-000	A	100.00	100.00	1	LOT 219 WOODCREEK OAKS VILL 2 U-20
477-280-029-000	A	100.00	100.00	1	LOT 152 WOODCREEK OAKS UNIT 9-D S-16
477-310-047-000	A	100.00	100.00	1	LOT 236 WOODCREEK OAKS UNIT 10 S-22
477-230-018-000	A	100.00	100.00	1	LOT 52 RIDGEWOOD UNIT 1 R-87
480-010-005-000	A	100.00	100.00	1	LOT 5 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-500-004-000	A	100.00	100.00	1	LOT 64 WOODCREEK OAKS VILL 4-PH B T-66
477-190-015-000	A	100.00	100.00	1	LOT 24 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-620-011-000	A	100.00	100.00	1	LOT 209 WOODCREEK OAKS VILL 2 U-20
477-600-018-000	A	100.00	100.00	1	LOT 199 WOODCREEK OAKS VILL 2 U-20
477-300-033-000	A	100.00	100.00	1	LOT 301 WOODCREEK OAKS UNIT 10 S-22
477-190-033-000	A	100.00	100.00	1	LOT 86 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-310-065-000	A	100.00	100.00	1	LOT 254 WOODCREEK OAKS UNIT 10 S-22
477-440-001-000	A	100.00	100.00	1	LOT 1 RIDGEWOOD OAKS UNIT NO 5 T-59
477-300-051-000	A	100.00	100.00	1	LOT 319 WOODCREEK OAKS UNIT 10 S-22
477-360-007-000	A	100.00	100.00	1	LOT 99 RIDGEWOOD UNIT 2 S-40
477-650-032-000	A	100.00	100.00	1	LOT 143 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-520-016-000	A	100.00	100.00	1	LOT 301 WOODCREEK OAKS VILL 3 T-67
477-510-002-000	A	100.00	100.00	1	LOT 303 WOODCREEK OAKS VILL 3 T-67
477-420-030-000	A	100.00	100.00	1	LOT 379 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-360-025-000	A	100.00	100.00	1	LOT 117 RIDGEWOOD UNIT 2 S-40
477-240-019-000	A	100.00	100.00	1	LOT 169 WOODCREEK OAKS UNIT 9-A S-13
477-480-004-000	A	100.00	100.00	1	LOT 48 WOODCREEK OAKS VILL 4 PHASE B T-66
477-190-051-000	A	100.00	100.00	1	LOT 132 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-290-001-000	A	100.00	100.00	1	LOT 53 WOODCREEK OAKS UNIT 9-D S-16
477-560-015-000	A	100.00	100.00	1	LOT 15 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-400-028-000	A	100.00	100.00	1	LOT 64 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-490-018-000	A	100.00	100.00	1	LOT 92 WOODCREEK OAKS VILL 4 PHASE B T-66
477-240-037-000	A	100.00	100.00	1	LOT 187 WOODCREEK OAKS UNIT 9-4 S-13
480-020-063-000	A	100.00	100.00	1	LOT 143 SILVERADO VILLAGE UNIT 2 PH B S-39
477-540-005-000	A	100.00	100.00	1	LOT 242 WOODCREEK OAKS VILL 3 T-67
477-360-061-000	A	100.00	100.00	1	LOT 153 RIDGEWOOD UNIT 2 S-40
477-570-012-000	A	100.00	100.00	1	LOT 333 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-200-011-000	A	100.00	100.00	1	LOT 11 RIDGEWOOD UNIT 1 R-87
480-050-004-000	A	100.00	100.00	1	LOT 4 SILVERADO OAKS UNIT NO 7 PH A T-77
477-430-008-000	A	100.00	100.00	1	LOT 407 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
480-040-007-000	A	100.00	100.00	1	LOT 42 SILVERADO OAKS UNIT NO 7 PH A T-77
477-370-030-000	A	100.00	100.00	1	LOT 106 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-080-028-000	A	100.00	100.00	1	LOT 420 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-090-043-000	A	100.00	100.00	1	LOT 397A SILVERADO OAKS UNIT 7 PH F MOR T-82
477-210-007-000	A	100.00	100.00	1	LOT 45 RIDGEWOOD UNIT 1 R-87
480-040-025-000	A	100.00	100.00	1	LOT 92 SILVERADO OAKS UNIT NO 7 PH A T-77
477-280-014-000	A	100.00	100.00	1	LOT 137 WOODCREEK OAKS UNIT 9-D S-16
477-550-010-000	A	100.00	100.00	1	LOT 43 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-360-043-000	A	100.00	100.00	1	LOT 135 RIDGEWOOD UNIT 2 S-40
477-350-028-000	A	100.00	100.00	1	LOT 146 WOODCREEK OAKS VILLAGE 7C S-33
477-240-002-000	A	100.00	100.00	1	LOT 20 WOODCREEK OAKS UNIT 9-A S-13
480-020-045-000	A	100.00	100.00	1	LOT 125 SILVERADO VILLAGE UNIT 2 PH B S-39
477-660-001-000	A	100.00	100.00	1	LOT 104 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-210-068-000	A	100.00	100.00	1	LOT 259 RIDGEWOOD UNIT 4 S-100
480-020-009-000	A	100.00	100.00	1	LOT 89 SILVERADO VILLAGE UNIT 2 PH B S-39
480-030-015-000	A	100.00	100.00	1	LOT 96 SILVERADO OAKS UNIT NO 7 PH A T-77
477-270-035-000	A	100.00	100.00	1	LOT 119 WOODCREEK OAKS UNIT 9-C S-15
477-390-023-000	A	100.00	100.00	1	LOT 87 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-380-008-000	A	100.00	100.00	1	LOT 141 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-630-007-000	A	100.00	100.00	1	LOT 145 WOODCREEK OAKS VILLAGE 5A MOR U-56
480-020-027-000	A	100.00	100.00	1	LOT 107 SILVERADO VILLAGE UNIT 2 PH B S-39
477-280-032-000	A	100.00	100.00	1	LOT 155 WOODCREEK OAKS UNIT 9-D S-16
477-650-014-000	A	100.00	100.00	1	LOT 125 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-270-017-000	A	100.00	100.00	1	LOT 101 WOODCREEK OAKS UNIT 9-C S-15

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-050-022-000	A	100.00	100.00	1	POR LOT 13 SILVERADO OAKS UNIT NO 7 PH A T-77
477-450-006-000	A	100.00	100.00	1	LOT 6 WOODCREEK OAKS VILL 4-PH A T-65
477-220-004-000	A	100.00	100.00	1	LOT 61 RIDGEWOOD UNIT 1 R-87
477-350-046-000	A	100.00	100.00	1	LOT 164 WOODCREEK OAKS VILLAGE 7C S-33
477-310-020-000	A	100.00	100.00	1	LOT 209 WOODCREEK OAKS UNIT 10 S-22
477-430-026-000	A	100.00	100.00	1	LOT 456 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
480-080-064-000	A	100.00	100.00	1	LOT 386 B & POR 387 SILVERADO OAKS U7 PH F T-82
477-390-005-000	A	100.00	100.00	1	LOT 5 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-300-015-000	A	100.00	100.00	1	LOT 275 WOODCREEK OAKS UNIT 10 S-22
477-610-023-000	A	100.00	100.00	1	LOT 226 WOODCREEK OAKS VILL 2 U-20
477-440-018-000	A	100.00	100.00	1	LOT 18 RIDGEWOOD OAKS UNIT NO 5 T-59
477-310-002-000	A	100.00	100.00	1	LOT 191 WOODCREEK OAKS UNIT 10 S-22
477-600-001-000	A	100.00	100.00	1	LOT 157 WOODCREEK OAKS VILL 2 U-20
477-320-016-000	A	100.00	100.00	1	LOT 26 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-610-005-000	A	100.00	100.00	1	LOT 167 WOODCREEK OAKS VILL 2 U-20
477-470-007-000	A	100.00	100.00	1	LOT 30 WOODCREEK OAKS VILL 4-PH A T-65
477-190-058-000	A	100.00	100.00	1	LOT 139 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-240-020-000	A	100.00	100.00	1	LOT 170 WOODCREEK OAKS UNIT 9-A S-13
477-530-003-000	A	100.00	100.00	1	LOT 236 WOODCREEK OAKS VILL 3 T-67
477-640-017-000	A	100.00	100.00	1	LOT 189 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-410-015-000	A	100.00	100.00	1	LOT 59 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-380-026-000	A	100.00	100.00	1	LOT 159 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-490-001-000	A	100.00	100.00	1	LOT 55 WOODCREEK OAKS VILL 4 PHASE B T-66
477-400-011-000	A	100.00	100.00	1	LOT 26 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-290-018-000	A	100.00	100.00	1	LOT 130 WOODCREEK OAKS UNIT 9-D S-16
477-420-047-000	A	100.00	100.00	1	LOT 396 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-250-024-000	A	100.00	100.00	1	LOT 26 WOODCREEK OAKS UNIT 9-B S-14
477-420-065-000	A	100.00	100.00	1	LOT 429 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-570-030-000	A	100.00	100.00	1	LOT 439 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-530-021-000	A	100.00	100.00	1	LOT 273 WOODCREEK OAKS VILL 3 T-67
477-650-039-000	A	100.00	100.00	1	LOT 150 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-380-044-000	A	100.00	100.00	1	LOT 177 WOODCREEK OAKS VILLAGE #12 PH C S-52
480-090-015-000	A	100.00	100.00	1	LOT 368 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-440-036-000	A	100.00	100.00	1	LOT 36 RIDGEWOOD OAKS UNIT NO 5 T-59
477-370-012-000	A	100.00	100.00	1	LOT 88 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-410-033-000	A	100.00	100.00	1	LOT 82 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-380-062-000	A	100.00	100.00	1	LOT 125 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-070-005-000	A	100.00	100.00	1	LOT 64 SILVERADO OAKS UNIT NO 7 PH A T-77
477-590-013-000	A	100.00	100.00	1	LOT 80 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-230-026-000	A	100.00	100.00	1	LOT 60 RIDGEWOOD UNIT 1 R-87
480-080-011-000	A	100.00	100.00	1	LOT 405 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-550-009-000	A	100.00	100.00	1	LOT 42 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-060-008-000	A	100.00	100.00	1	LOT 28 SILVERADO OAKS UNIT NO 7 PH A T-77
480-010-031-000	A	100.00	100.00	1	LOT 31 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-200-028-000	A	100.00	100.00	1	LOT 171 RIDGEWOOD UNIT 3 MOR S-41
480-010-066-000	A	100.00	100.00	1	LOT 66 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-230-044-000	A	100.00	100.00	1	POR LOT 76 RIDGEWOOD UNIT 1 R-87
477-210-043-000	A	100.00	100.00	1	LOT 234 RIDGEWOOD UNIT 4 S-100
480-010-013-000	A	100.00	100.00	1	LOT 13 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-070-023-000	A	100.00	100.00	1	LOT 82 SILVERADO OAKS UNIT NO 7 PH A T-77
477-340-005-000	A	100.00	100.00	1	LOT 88 WOODCREEK OAKS VILLAGE 7B S-32
477-560-033-000	A	100.00	100.00	1	LOT 33 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-210-061-000	A	100.00	100.00	1	LOT 252 RIDGEWOOD UNIT 4 S-100
477-200-046-000	A	100.00	100.00	1	LOT 189 RIDGEWOOD UNIT 3 MOR S-41
477-580-016-000	A	100.00	100.00	1	LOT 96 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-660-036-000	A	100.00	100.00	1	LOT 172 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-370-047-000	A	100.00	100.00	1	LOT 132 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-550-027-000	A	100.00	100.00	1	LOT 62 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-310-055-000	A	100.00	100.00	1	LOT 244 WOODCREEK OAKS UNIT 10 S-22
477-350-011-000	A	100.00	100.00	1	LOT 129 WOODCREEK OAKS VILLAGE 7C S-33
477-660-018-000	A	100.00	100.00	1	LOT 121 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-320-052-000	A	100.00	100.00	1	L22&PORLOTS23,25WOODCREEK OAKS VILLAGE#12 PHA S-27
477-250-006-000	A	100.00	100.00	1	LOT 6 WOODCREEK OAKS UNIT 9-B S-14
477-260-021-000	A	100.00	100.00	1	LOT 89 WOODCREEK OAKS UNIT 9-C S-15
477-420-012-000	A	100.00	100.00	1	LOT 361 WOODCREEK OAKS VILLAGE II UNIT A T-7

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-310-037-000	A	100.00	100.00	1	LOT 226 WOODCREEK OAKS UNIT 10 S-22
477-230-008-000	A	100.00	100.00	1	LOT 30 RIDGEWOOD UNIT 1 R-87
477-500-014-000	A	100.00	100.00	1	LOT 74 WOODCREEK OAKS VILL 4-PH B T-66
477-320-034-000	A	100.00	100.00	1	LOT 44 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-310-019-000	A	100.00	100.00	1	LOT 208 WOODCREEK OAKS UNIT 10 S-22
477-360-068-000	A	100.00	100.00	1	LOT 160 RIDGEWOOD UNIT 2 S-40
477-340-023-000	A	100.00	100.00	1	LOT 106 WOODCREEK OAKS VILLAGE 7B S-32
480-020-010-000	A	100.00	100.00	1	LOT 90 SILVERADO VILLAGE UNIT 2 PH B S-39
477-260-003-000	A	100.00	100.00	1	LOT 71 WOODCREEK OAKS UNIT 9-C S-15
477-200-064-000	A	100.00	100.00	1	LOT 207 RIDGEWOOD UNIT 3 MOR S-41
480-040-013-000	A	100.00	100.00	1	LOT 107 SILVERADO OAKS UNIT NO 7 PH A T-77
477-650-006-000	A	100.00	100.00	1	LOT 117 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-380-030-000	A	100.00	100.00	1	LOT 163 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-380-012-000	A	100.00	100.00	1	LOT 145 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-240-036-000	A	100.00	100.00	1	LOT 186 WOODCREEK OAKS UNIT 9-4 S-13
477-360-066-000	A	100.00	100.00	1	LOT 158 RIDGEWOOD UNIT 2 S-40
477-190-023-000	A	100.00	100.00	1	LOT 32 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-620-010-000	A	100.00	100.00	1	LOT 208 WOODCREEK OAKS VILL 2 U-20
477-440-020-000	A	100.00	100.00	1	LOT 20 RIDGEWOOD OAKS UNIT NO 5 T-59
477-570-026-000	A	100.00	100.00	1	LOT 435 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-600-019-000	A	100.00	100.00	1	LOT 200 WOODCREEK OAKS VILL 2 U-20
477-650-042-000	A	100.00	100.00	1	LOT 153 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-210-013-000	A	100.00	100.00	1	LOT 84 RIDGEWOOD UNIT 1 R-87
477-460-017-000	A	100.00	100.00	1	LOT 39 WOODCREEK OAKS VILL 4-PH A T-65
477-630-013-000	A	100.00	100.00	1	LOT 151 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-270-003-000	A	100.00	100.00	1	LOT 62 WOODCREEK OAKS UNIT 9-C S-15
477-560-023-000	A	100.00	100.00	1	LOT 23 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-400-009-000	A	100.00	100.00	1	LOT 24 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-190-041-000	A	100.00	100.00	1	LOT 97 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-430-012-000	A	100.00	100.00	1	LOT 411 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-490-019-000	A	100.00	100.00	1	LOT 93 WOODCREEK OAKS VILL 4 PHASE B T-66
477-300-041-000	A	100.00	100.00	1	LOT 309 WOODCREEK OAKS UNIT 10 S-22
477-400-027-000	A	100.00	100.00	1	LOT 63 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-570-008-000	A	100.00	100.00	1	LOT 329 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-010-068-000	A	100.00	100.00	1	LOT 68 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-270-021-000	A	100.00	100.00	1	LOT 105 WOODCREEK OAKS UNIT 9-C S-15
477-560-005-000	A	100.00	100.00	1	LOT 5 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-240-018-000	A	100.00	100.00	1	LOT 168 WOODCREEK OAKS UNIT 9-A S-13
477-280-006-000	A	100.00	100.00	1	LOT 45 WOODCREEK OAKS UNIT 9-D S-16
477-480-016-000	A	100.00	100.00	1	LOT 99 WOODCREEK OAKS VILL 4 PHASE B T-66
477-280-024-000	A	100.00	100.00	1	LOT 147 WOODCREEK OAKS UNIT 9-D S-16
477-350-027-000	A	100.00	100.00	1	LOT 145 WOODCREEK OAKS VILLAGE 7C S-33
477-550-011-000	A	100.00	100.00	1	LOT 46 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-540-015-000	A	100.00	100.00	1	LOT 256 WOODCREEK OAKS VILL 3 T-67
477-350-045-000	A	100.00	100.00	1	LOT 163 WOODCREEK OAKS VILLAGE 7C S-33
477-330-007-000	A	100.00	100.00	1	LOT 7 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-310-062-000	A	100.00	100.00	1	LOT 251 WOODCREEK OAKS UNIT 10 S-22
477-520-004-000	A	100.00	100.00	1	LOT 277 WOODCREEK OAKS VILL 3 T-67
477-290-020-000	A	100.00	100.00	1	LOT 132 WOODCREEK OAKS UNIT 9-D S-16
480-020-064-000	A	100.00	100.00	1	LOT 144 SILVERADO VILLAGE UNIT 2 PH B S-39
477-200-010-000	A	100.00	100.00	1	LOT 10 RIDGEWOOD UNIT 1 R-87
477-320-029-000	A	100.00	100.00	1	LOT 39 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-490-002-000	A	100.00	100.00	1	LOT 56 WOODCREEK OAKS VILL 4 PHASE B T-66
480-080-027-000	A	100.00	100.00	1	LOT 419 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-330-025-000	A	100.00	100.00	1	LOT 72 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-350-009-000	A	100.00	100.00	1	LOT 127 WOODCREEK OAKS VILLAGE 7C S-33
477-360-031-000	A	100.00	100.00	1	LOT 123 RIDGEWOOD UNIT 2 S-40
477-300-023-000	A	100.00	100.00	1	LOT 283 WOODCREEK OAKS UNIT 10 S-22
480-020-046-000	A	100.00	100.00	1	LOT 126 SILVERADO VILLAGE UNIT 2 PH B S-39
477-600-002-000	A	100.00	100.00	1	LOT 158 WOODCREEK OAKS VILL 2 U-20
477-390-033-000	A	100.00	100.00	1	LOT 97 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-230-030-000	A	100.00	100.00	1	LOT 70 RIDGEWOOD UNIT 1 R-87
480-030-005-000	A	100.00	100.00	1	LOT 52 SILVERADO OAKS UNIT NO 7 PH A T-77
477-300-005-000	A	100.00	100.00	1	LOT 265 WOODCREEK OAKS UNIT 10 S-22
477-650-024-000	A	100.00	100.00	1	LOT 135 WOODCREEK OAKS UNIT #1 PH C MOR U-75

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-360-013-000	A	100.00	100.00	1	LOT 105 RIDGEWOOD UNIT 2 S-40
477-390-015-000	A	100.00	100.00	1	LOT 15 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-090-031-000	A	100.00	100.00	1	LOT 381 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-030-023-000	A	100.00	100.00	1	LOT 104 SILVERADO OAKS UNIT NO 7 PH A T-77
480-020-028-000	A	100.00	100.00	1	LOT 108 SILVERADO VILLAGE UNIT 2 PH B S-39
477-660-020-000	A	100.00	100.00	1	LOT 123 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-310-001-000	A	100.00	100.00	1	LOT 190 WOODCREEK OAKS UNIT 10 S-22
477-420-008-000	A	100.00	100.00	1	LOT 357 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-580-022-000	A	100.00	100.00	1	LOT 102 WOODCREEK OAKS UNIT 1 PH B MOR U-4
480-010-025-000	A	100.00	100.00	1	LOT 25 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-380-047-000	A	100.00	100.00	1	LOT 180 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-620-009-000	A	100.00	100.00	1	LOT 207 WOODCREEK OAKS VILL 2 U-20
477-210-066-000	A	100.00	100.00	1	LOT 257 RIDGEWOOD UNIT 4 S-100
477-620-027-000	A	100.00	100.00	1	LOT 225 WOODCREEK OAKS VILL 2 U-20
477-440-037-000	A	100.00	100.00	1	LOT 37 RIDGEWOOD OAKS UNIT NO 5 T-59
477-660-002-000	A	100.00	100.00	1	LOT 105 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-440-019-000	A	100.00	100.00	1	LOT 19 RIDGEWOOD OAKS UNIT NO 5 T-59
477-610-015-000	A	100.00	100.00	1	LOT 177 WOODCREEK OAKS VILL 2 U-20
477-500-006-000	A	100.00	100.00	1	LOT 66 WOODCREEK OAKS VILL 4-PH B T-66
480-010-061-000	A	100.00	100.00	1	LOT 61 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-420-044-000	A	100.00	100.00	1	LOT 393 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-230-012-000	A	100.00	100.00	1	LOT 34 RIDGEWOOD UNIT 1 R-87
480-010-007-000	A	100.00	100.00	1	LOT 7 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-060-012-000	A	100.00	100.00	1	LOT 32 SILVERADO OAKS UNIT NO 7 PH A T-77
480-090-023-000	A	100.00	100.00	1	LOT 375 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-490-020-000	A	100.00	100.00	1	LOT 94 WOODCREEK OAKS VILL 4 PHASE B T-66
477-240-001-000	A	100.00	100.00	1	LOT 19 WOODCREEK OAKS UNIT 9-A S-13
477-600-020-000	A	100.00	100.00	1	LOT 201 WOODCREEK OAKS VILL 2 U-20
480-090-005-000	A	100.00	100.00	1	LOT 358 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-250-014-000	A	100.00	100.00	1	LOT 14 WOODCREEK OAKS UNIT 9-B S-14
477-420-026-000	A	100.00	100.00	1	LOT 375 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-190-048-000	A	100.00	100.00	1	LOT 129 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-590-007-000	A	100.00	100.00	1	LOT 74 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-260-017-000	A	100.00	100.00	1	LOT 85 WOODCREEK OAKS UNIT 9-C S-15
477-400-010-000	A	100.00	100.00	1	LOT 25 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-410-023-000	A	100.00	100.00	1	LOT 72 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-580-004-000	A	100.00	100.00	1	LOT 84 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-290-019-000	A	100.00	100.00	1	LOT 131 WOODCREEK OAKS UNIT 9-D S-16
477-300-048-000	A	100.00	100.00	1	LOT 316 WOODCREEK OAKS UNIT 10 S-22
477-320-022-000	A	100.00	100.00	1	LOT 32 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-290-002-000	A	100.00	100.00	1	LOT 54 WOODCREEK OAKS UNIT 9-D S-16
477-200-009-000	A	100.00	100.00	1	LOT 9 RIDGEWOOD UNIT 1 R-87
477-310-054-000	A	100.00	100.00	1	LOT 243 WOODCREEK OAKS UNIT 10 S-22
477-320-040-000	A	100.00	100.00	1	LOT 50 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-550-028-000	A	100.00	100.00	1	LOT 63 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-350-010-000	A	100.00	100.00	1	LOT 128 WOODCREEK OAKS VILLAGE 7C S-33
480-070-015-000	A	100.00	100.00	1	LOT 74 SILVERADO OAKS UNIT NO 7 PH A T-77
480-080-010-000	A	100.00	100.00	1	LOT 404 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-510-001-000	A	100.00	100.00	1	LOT 302 WOODCREEK OAKS VILL 3 T-67
477-310-036-000	A	100.00	100.00	1	LOT 225 WOODCREEK OAKS UNIT 10 S-22
477-310-069-000	A	100.00	100.00	1	LOT 258 WOODCREEK OAKS UNIT 10 S-22
477-370-008-000	A	100.00	100.00	1	LOT 84 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-470-013-000	A	100.00	100.00	1	LOT 36 WOODCREEK OAKS VILL 4-PH A T-65
477-200-027-000	A	100.00	100.00	1	LOT 170 RIDGEWOOD UNIT 3 MOR S-41
477-430-030-000	A	100.00	100.00	1	LOT 460 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-370-026-000	A	100.00	100.00	1	LOT 102 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-340-015-000	A	100.00	100.00	1	LOT 98 WOODCREEK OAKS VILLAGE 7B S-32
477-310-018-000	A	100.00	100.00	1	LOT 207 WOODCREEK OAKS UNIT 10 S-22
477-420-062-000	A	100.00	100.00	1	LOT 426 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-200-045-000	A	100.00	100.00	1	LOT 188 RIDGEWOOD UNIT 3 MOR S-41
480-020-011-000	A	100.00	100.00	1	LOT 91 SILVERADO VILLAGE UNIT 2 PH B S-39
477-660-037-000	A	100.00	100.00	1	LOT 173 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-370-044-000	A	100.00	100.00	1	LOT 129 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-200-063-000	A	100.00	100.00	1	LOT 206 RIDGEWOOD UNIT 3 MOR S-41
477-440-002-000	A	100.00	100.00	1	LOT 2 RIDGEWOOD OAKS UNIT NO 5 T-59

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-640-003-000	A	100.00	100.00	1	LOT 102 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-530-017-000	A	100.00	100.00	1	LOT 269 WOODCREEK OAKS VILL 3 T-67
480-010-043-000	A	100.00	100.00	1	LOT 43 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-340-033-000	A	100.00	100.00	1	LOT 116 WOODCREEK OAKS VILLAGE 7B S-32
477-320-004-000	A	100.00	100.00	1	LOT 14 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-210-031-000	A	100.00	100.00	1	LOT 222 RIDGEWOOD UNIT 4 S-100
477-660-019-000	A	100.00	100.00	1	LOT 122 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-230-047-000	A	100.00	100.00	1	POR LOT 79 RIDGEWOOD UNIT 1 R-87
477-640-021-000	A	100.00	100.00	1	LOT 193 WOODCREEK OAKS VILLAGE 5A MOR U-56
480-020-003-000	A	100.00	100.00	1	LOT 83 SILVERADO VILLAGE UNIT 2 PH B S-39
477-390-025-000	A	100.00	100.00	1	LOT 89 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-080-071-000	A	100.00	100.00	1	LOT 428 A & POR 428 B SILVERADO OAKS U7 PH F T-82
477-260-010-000	A	100.00	100.00	1	LOT 78 WOODCREEK OAKS UNIT 9-C S-15
477-380-002-000	A	100.00	100.00	1	LOT 135 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-650-034-000	A	100.00	100.00	1	LOT 145 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-640-011-000	A	100.00	100.00	1	LOT 138 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-240-026-000	A	100.00	100.00	1	LOT 176 WOODCREEK OAKS UNIT 9-A S-13
477-460-009-000	A	100.00	100.00	1	LOT 21 WOODCREEK OAKS VILL 4-PH A T-65
477-630-005-000	A	100.00	100.00	1	LOT 143 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-560-031-000	A	100.00	100.00	1	LOT 31 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-220-006-000	A	100.00	100.00	1	LOT 63 RIDGEWOOD UNIT 1 R-87
480-080-053-000	A	100.00	100.00	1	POR LT 411B SILVERADO OAKS UNIT 7 PH F MOR T-82
477-380-020-000	A	100.00	100.00	1	LOT 153 WOODCREEK OAKS VILLAGE #12 PH C S-52
480-020-021-000	A	100.00	100.00	1	LOT 101 SILVERADO VILLAGE UNIT 2 PH B S-39
477-400-017-000	A	100.00	100.00	1	LOT 32 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-650-016-000	A	100.00	100.00	1	LOT 127 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-450-004-000	A	100.00	100.00	1	LOT 4 WOODCREEK OAKS VILL 4-PH A T-65
477-420-001-000	A	100.00	100.00	1	LOT 350 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-570-036-000	A	100.00	100.00	1	LOT 445 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-440-030-000	A	100.00	100.00	1	LOT 30 RIDGEWOOD OAKS UNIT NO 5 T-59
477-560-013-000	A	100.00	100.00	1	LOT 13 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-390-007-000	A	100.00	100.00	1	LOT 7 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-050-006-000	A	100.00	100.00	1	LOT 6 SILVERADO OAKS UNIT NO 7 PH A T-77
477-330-015-000	A	100.00	100.00	1	LOT 62 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-570-018-000	A	100.00	100.00	1	LOT 339 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-190-013-000	A	100.00	100.00	1	LOT 22 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-540-007-000	A	100.00	100.00	1	LOT 244 WOODCREEK OAKS VILL 3 T-67
480-040-005-000	A	100.00	100.00	1	LOT 40 SILVERADO OAKS UNIT NO 7 PH A T-77
477-430-002-000	A	100.00	100.00	1	LOT 347 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
480-010-058-000	A	100.00	100.00	1	LOT 58 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-210-005-000	A	100.00	100.00	1	LOT 43 RIDGEWOOD UNIT 1 R-87
480-040-023-000	A	100.00	100.00	1	LOT 122 SILVERADO OAKS UNIT NO 7 PH A T-77
477-280-016-000	A	100.00	100.00	1	LOT 139 WOODCREEK OAKS UNIT 9-D S-16
477-300-031-000	A	100.00	100.00	1	LOT 299 WOODCREEK OAKS UNIT 10 S-22
477-330-033-000	A	100.00	100.00	1	PORLOTS58 59 60 121&122WOODCREEK OAKS VILL#12PHA&B
477-240-008-000	A	100.00	100.00	1	LOT 36 WOODCREEK OAKS UNIT 9-A S-13
477-190-031-000	A	100.00	100.00	1	LOT 84 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-320-039-000	A	100.00	100.00	1	LOT 49 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-310-072-000	A	100.00	100.00	1	LOT 290 WOODCREEK OAKS UNIT 10 S-22
477-520-014-000	A	100.00	100.00	1	LOT 299 WOODCREEK OAKS VILL 3 T-67
477-510-008-000	A	100.00	100.00	1	LOT 309 WOODCREEK OAKS VILL 3 T-67
480-030-013-000	A	100.00	100.00	1	LOT 94 SILVERADO OAKS UNIT NO 7 PH A T-77
477-360-005-000	A	100.00	100.00	1	LOT 97 RIDGEWOOD UNIT 2 S-40
477-370-001-000	A	100.00	100.00	1	LOT 77 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-360-023-000	A	100.00	100.00	1	LOT 115 RIDGEWOOD UNIT 2 S-40
477-430-019-000	A	100.00	100.00	1	LOT 418 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-480-006-000	A	100.00	100.00	1	LOT 50 WOODCREEK OAKS VILL 4 PHASE B T-66
477-270-028-000	A	100.00	100.00	1	LOT 112 WOODCREEK OAKS UNIT 9-C S-15
477-490-012-000	A	100.00	100.00	1	LOT 82 WOODCREEK OAKS VILL 4 PHASE B T-66
477-530-010-000	A	100.00	100.00	1	LOT 262 WOODCREEK OAKS VILL 3 T-67
477-300-013-000	A	100.00	100.00	1	LOT 273 WOODCREEK OAKS UNIT 10 S-22
477-190-066-000	A	100.00	100.00	1	LOT 147 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-230-020-000	A	100.00	100.00	1	LOT 54 RIDGEWOOD UNIT 1 R-87
480-080-017-000	A	100.00	100.00	1	LOT 410B SILVERADO OAKS UNIT 7 PH F MOR T-82
480-020-056-000	A	100.00	100.00	1	LOT 136 SILVERADO VILLAGE UNIT 2 PH B S-39

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-600-012-000	A	100.00	100.00	1	LOT 193 WOODCREEK OAKS VILL 2 U-20
480-050-024-000	A	100.00	100.00	1	LT15&PORLTS14&16SILVERADO OAKS UNIT NO 7 A T-77
477-350-035-000	A	100.00	100.00	1	LOT 153 WOODCREEK OAKS VILLAGE 7C S-33
480-090-041-000	A	100.00	100.00	1	LOT 395 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-360-041-000	A	100.00	100.00	1	LOT 133 RIDGEWOOD UNIT 2 S-40
480-020-038-000	A	100.00	100.00	1	LOT 118 SILVERADO VILLAGE UNIT 2 PH B S-39
480-080-035-000	A	100.00	100.00	1	LOT 426A SILVERADO OAKS UNIT 7 PH F MOR T-82
477-350-017-000	A	100.00	100.00	1	LOT 135 WOODCREEK OAKS VILLAGE 7C S-33
477-210-048-000	A	100.00	100.00	1	LOT 239 RIDGEWOOD UNIT 4 S-100
477-660-030-000	A	100.00	100.00	1	LOT 166 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-260-027-000	A	100.00	100.00	1	LOT 95 WOODCREEK OAKS UNIT 9-C S-15
477-380-019-000	A	100.00	100.00	1	LOT 152 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-410-013-000	A	100.00	100.00	1	LOT 57 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-420-036-000	A	100.00	100.00	1	LOT 385 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-250-004-000	A	100.00	100.00	1	LOT 4 WOODCREEK OAKS UNIT 9-B S-14
477-200-071-000	A	100.00	100.00	1	LOT 214 RIDGEWOOD UNIT 3 MOR S-41
477-660-012-000	A	100.00	100.00	1	LOT 115 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-200-053-000	A	100.00	100.00	1	LOT 196 RIDGEWOOD UNIT 3 MOR S-41
477-250-022-000	A	100.00	100.00	1	LOT 24 WOODCREEK OAKS UNIT 9-B S-14
477-420-018-000	A	100.00	100.00	1	LOT 367 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-420-054-000	A	100.00	100.00	1	LOT 403 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-380-037-000	A	100.00	100.00	1	LOT 170 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-500-016-000	A	100.00	100.00	1	LOT 76 WOODCREEK OAKS VILL 4-PH B T-66
477-460-010-000	A	100.00	100.00	1	LOT 22 WOODCREEK OAKS VILL 4-PH A T-65
477-230-002-000	A	100.00	100.00	1	LOT 24 RIDGEWOOD UNIT 1 R-87
477-260-009-000	A	100.00	100.00	1	LOT 77 WOODCREEK OAKS UNIT 9-C S-15
477-340-025-000	A	100.00	100.00	1	LOT 108 WOODCREEK OAKS VILLAGE 7B S-32
477-410-031-000	A	100.00	100.00	1	LOT 80 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-090-013-000	A	100.00	100.00	1	LOT 366 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-070-007-000	A	100.00	100.00	1	LOT 66 SILVERADO OAKS UNIT NO 7 PH A T-77
477-570-001-000	A	100.00	100.00	1	LOT 322 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-010-051-000	A	100.00	100.00	1	LOT 51 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-380-055-000	A	100.00	100.00	1	LOT 118 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-550-003-000	A	100.00	100.00	1	LOT 36 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-620-017-000	A	100.00	100.00	1	LOT 215 WOODCREEK OAKS VILL 2 U-20
480-060-002-000	A	100.00	100.00	1	LOT 22 SILVERADO OAKS UNIT NO 7 PH A T-77
480-070-025-000	A	100.00	100.00	1	LOT 84 SILVERADO OAKS UNIT NO 7 PH A T-77
477-340-007-000	A	100.00	100.00	1	LOT 90 WOODCREEK OAKS VILLAGE 7B S-32
477-550-021-000	A	100.00	100.00	1	LOT 56 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-580-014-000	A	100.00	100.00	1	LOT 94 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-310-044-000	A	100.00	100.00	1	LOT 233 WOODCREEK OAKS UNIT 10 S-22
477-530-009-000	A	100.00	100.00	1	LOT 261 WOODCREEK OAKS VILL 3 T-67
477-270-011-000	A	100.00	100.00	1	LOT 70 WOODCREEK OAKS UNIT 9-C S-15
477-290-012-000	A	100.00	100.00	1	LOT 124 WOODCREEK OAKS UNIT 9-D S-16
477-310-079-000	A	100.00	100.00	1	LOT 297 WOODCREEK OAKS UNIT 10 S-22
477-320-032-000	A	100.00	100.00	1	LOT 42 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-530-027-000	A	100.00	100.00	1	LOT 285 WOODCREEK OAKS VILL 3 T-67
477-430-020-000	A	100.00	100.00	1	LOT 433 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-370-018-000	A	100.00	100.00	1	LOT 94 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-310-026-000	A	100.00	100.00	1	LOT 215 WOODCREEK OAKS UNIT 10 S-22
477-590-015-000	A	100.00	100.00	1	LOT 110 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-610-025-000	A	100.00	100.00	1	LOT 228 WOODCREEK OAKS VILL 2 U-20
477-360-048-000	A	100.00	100.00	1	LOT 140 RIDGEWOOD UNIT 2 S-40
477-200-017-000	A	100.00	100.00	1	LOT 17 RIDGEWOOD UNIT 1 R-87
477-370-054-000	A	100.00	100.00	1	LOT 113&POR112 WOODCREEK OAKS VILLAGE#12 PH B S-51
477-440-012-000	A	100.00	100.00	1	LOT 12 RIDGEWOOD OAKS UNIT NO 5 T-59
480-010-033-000	A	100.00	100.00	1	LOT 33 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-230-019-000	A	100.00	100.00	1	LOT 53 RIDGEWOOD UNIT 1 R-87
477-310-008-000	A	100.00	100.00	1	LOT 197 WOODCREEK OAKS UNIT 10 S-22
477-210-041-000	A	100.00	100.00	1	LOT 232 RIDGEWOOD UNIT 4 S-100
480-010-015-000	A	100.00	100.00	1	LOT 15 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-660-047-000	A	100.00	100.00	1	LOT 183 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-610-007-000	A	100.00	100.00	1	LOT 169 WOODCREEK OAKS VILL 2 U-20
477-200-035-000	A	100.00	100.00	1	LOT 178 RIDGEWOOD UNIT 3 MOR S-41
477-470-005-000	A	100.00	100.00	1	LOT 28 WOODCREEK OAKS VILL 4-PH A T-65

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-320-014-000	A	100.00	100.00	1	LOT 24 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-430-014-000	A	100.00	100.00	1	LOT 413 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-560-021-000	A	100.00	100.00	1	LOT 21 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-400-007-000	A	100.00	100.00	1	LOT 22 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-020-031-000	A	100.00	100.00	1	LOT 111 SILVERADO VILLAGE UNIT 2 PH B S-39
477-360-046-000	A	100.00	100.00	1	LOT 138 RIDGEWOOD UNIT 2 S-40
477-270-005-000	A	100.00	100.00	1	LOT 64 WOODCREEK OAKS UNIT 9-C S-15
477-400-025-000	A	100.00	100.00	1	LOT 61 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-020-013-000	A	100.00	100.00	1	LOT 93 SILVERADO VILLAGE UNIT 2 PH B S-39
480-050-018-000	A	100.00	100.00	1	LOT 18 SILVERADO OAKS UNIT NO 7 PH A T-77
477-270-023-000	A	100.00	100.00	1	LOT 107 WOODCREEK OAKS UNIT 9-C S-15
477-390-035-000	A	100.00	100.00	1	LOT 99 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-660-029-000	A	100.00	100.00	1	LOT 165 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-570-006-000	A	100.00	100.00	1	LOT 327 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-390-017-000	A	100.00	100.00	1	LOT 41 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-650-026-000	A	100.00	100.00	1	LOT 137 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-240-016-000	A	100.00	100.00	1	LOT 166 WOODCREEK OAKS UNIT 9-A S-13
477-560-003-000	A	100.00	100.00	1	LOT 3 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-310-059-000	A	100.00	100.00	1	LOT 248 WOODCREEK OAKS UNIT 10 S-22
477-360-028-000	A	100.00	100.00	1	LOT 120 RIDGEWOOD UNIT 2 S-40
477-280-008-000	A	100.00	100.00	1	LOT 47 WOODCREEK OAKS UNIT 9-D S-16
480-010-010-000	A	100.00	100.00	1	LOT 10 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-280-026-000	A	100.00	100.00	1	LOT 149 WOODCREEK OAKS UNIT 9-D S-16
477-320-020-000	A	100.00	100.00	1	LOT 30 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-650-008-000	A	100.00	100.00	1	LOT 119 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-380-014-000	A	100.00	100.00	1	LOT 147 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-350-043-000	A	100.00	100.00	1	LOT 161 WOODCREEK OAKS VILLAGE 7C S-33
477-540-017-000	A	100.00	100.00	1	LOT 258 WOODCREEK OAKS VILL 3 T-67
477-360-064-000	A	100.00	100.00	1	LOT 156 RIDGEWOOD UNIT 2 S-40
477-190-021-000	A	100.00	100.00	1	LOT 30 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-590-010-000	A	100.00	100.00	1	LOT 77 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-200-068-000	A	100.00	100.00	1	LOT 211 RIDGEWOOD UNIT 3 MOR S-41
477-470-011-000	A	100.00	100.00	1	LOT 34 WOODCREEK OAKS VILL 4-PH A T-65
477-450-012-000	A	100.00	100.00	1	LOT 44 WOODCREEK OAKS VILL 4-PH A T-65
477-300-038-000	A	100.00	100.00	1	LOT 306 WOODCREEK OAKS UNIT 10 S-22
477-190-056-000	A	100.00	100.00	1	LOT 137 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-460-015-000	A	100.00	100.00	1	LOT 37 WOODCREEK OAKS VILL 4-PH A T-65
477-300-021-000	A	100.00	100.00	1	LOT 281 WOODCREEK OAKS UNIT 10 S-22
477-490-022-000	A	100.00	100.00	1	LOT 96 WOODCREEK OAKS VILL 4 PHASE B T-66
477-600-004-000	A	100.00	100.00	1	LOT 160 WOODCREEK OAKS VILL 2 U-20
477-420-049-000	A	100.00	100.00	1	LOT 398 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-190-038-000	A	100.00	100.00	1	LOT 94 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
480-030-003-000	A	100.00	100.00	1	LOT 50 SILVERADO OAKS UNIT NO 7 PH A T-77
477-420-067-000	A	100.00	100.00	1	LOT 431 WOODCREEK OAKS VILLAGE II UNIT A T-7
480-030-021-000	A	100.00	100.00	1	LOT 102 SILVERADO OAKS UNIT NO 7 PH A T-77
477-300-003-000	A	100.00	100.00	1	LOT 263 WOODCREEK OAKS UNIT 10 S-22
477-580-020-000	A	100.00	100.00	1	LOT 100 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-570-042-000	A	100.00	100.00	1	LOT 461 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-350-025-000	A	100.00	100.00	1	LOT 143 WOODCREEK OAKS VILLAGE 7C S-33
477-330-009-000	A	100.00	100.00	1	LOT 9 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-240-034-000	A	100.00	100.00	1	LOT 184 WOODCREEK OAKS UNIT 9-A S-13
477-310-060-000	A	100.00	100.00	1	LOT 249 WOODCREEK OAKS UNIT 10 S-22
477-440-029-000	A	100.00	100.00	1	LOT 29 RIDGEWOOD OAKS UNIT NO 5 T-59
477-520-002-000	A	100.00	100.00	1	LOT 275 WOODCREEK OAKS VILL 3 T-67
477-210-028-000	A	100.00	100.00	1	LOT 219 RIDGEWOOD UNIT 4 S-100
480-020-066-000	A	100.00	100.00	1	LOT 146 SILVERADO VILLAGE UNIT 2 PH B S-39
477-380-039-000	A	100.00	100.00	1	LOT 172 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-650-044-000	A	100.00	100.00	1	LOT 155 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-570-024-000	A	100.00	100.00	1	LOT 345 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-490-004-000	A	100.00	100.00	1	LOT 58 WOODCREEK OAKS VILL 4 PHASE B T-66
477-330-027-000	A	100.00	100.00	1	LOT 74 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-080-025-000	A	100.00	100.00	1	LOT 417 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-350-007-000	A	100.00	100.00	1	LOT 125 WOODCREEK OAKS VILLAGE 7C S-33
480-090-021-000	A	100.00	100.00	1	LOT 373 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-340-017-000	A	100.00	100.00	1	LOT 100 WOODCREEK OAKS VILLAGE 7B S-32

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-060-014-000	A	100.00	100.00	1	LOT 34 SILVERADO OAKS UNIT NO 7 PH A T-77
477-660-040-000	A	100.00	100.00	1	LOT 176 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-530-033-000	A	100.00	100.00	1	LOT 291 WOODCREEK OAKS VILL 3 T-67
477-200-043-000	A	100.00	100.00	1	LOT 186 RIDGEWOOD UNIT 3 MOR S-41
477-370-024-000	A	100.00	100.00	1	LOT 100 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-230-032-000	A	100.00	100.00	1	LOT 72 RIDGEWOOD UNIT 1 R-87
477-200-061-000	A	100.00	100.00	1	LOT 204 RIDGEWOOD UNIT 3 MOR S-41
477-370-042-000	A	100.00	100.00	1	LOT 127 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-410-003-000	A	100.00	100.00	1	LOT 47 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-530-015-000	A	100.00	100.00	1	LOT 267 WOODCREEK OAKS VILL 3 T-67
477-340-035-000	A	100.00	100.00	1	LOT 118 WOODCREEK OAKS VILLAGE 7B S-32
480-090-003-000	A	100.00	100.00	1	LOT 356 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-250-012-000	A	100.00	100.00	1	LOT 12 WOODCREEK OAKS UNIT 9-B S-14
477-360-011-000	A	100.00	100.00	1	LOT 103 RIDGEWOOD UNIT 2 S-40
477-590-009-000	A	100.00	100.00	1	LOT 76 WOODCREEK OAKS UNIT 1 PH B MOR U-4
480-050-001-000	A	100.00	100.00	1	LOT 1 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-046-000	A	100.00	100.00	1	LOT 237 RIDGEWOOD UNIT 4 S-100
477-660-022-000	A	100.00	100.00	1	LOT 125 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-410-021-000	A	100.00	100.00	1	LOT 70 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-580-002-000	A	100.00	100.00	1	LOT 82 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-420-006-000	A	100.00	100.00	1	LOT 355 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-620-007-000	A	100.00	100.00	1	LOT 205 WOODCREEK OAKS VILL 2 U-20
480-010-027-000	A	100.00	100.00	1	LOT 27 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-220-001-000	A	100.00	100.00	1	LOT 20 RIDGEWOOD UNIT 1 R-87
477-320-037-000	A	100.00	100.00	1	LOT 47 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-210-064-000	A	100.00	100.00	1	LOT 255 RIDGEWOOD UNIT 4 S-100
477-550-013-000	A	100.00	100.00	1	LOT 48 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-620-025-000	A	100.00	100.00	1	LOT 223 WOODCREEK OAKS VILL 2 U-20
477-310-052-000	A	100.00	100.00	1	LOT 241 WOODCREEK OAKS UNIT 10 S-22
477-290-022-000	A	100.00	100.00	1	LOT 134 WOODCREEK OAKS UNIT 9-D S-16
477-660-004-000	A	100.00	100.00	1	LOT 107 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-320-019-000	A	100.00	100.00	1	LOT 29 WOODCREEK OAKS VILLAGE #12 PH A S-27
480-070-017-000	A	100.00	100.00	1	LOT 76 SILVERADO OAKS UNIT NO 7 PH A T-77
480-080-068-000	A	100.00	100.00	1	LOT 425 A & POR 425 B SILVERADO OAKS U7 PH F T-82
477-500-008-000	A	100.00	100.00	1	LOT 68 WOODCREEK OAKS VILL 4-PH B T-66
480-010-009-000	A	100.00	100.00	1	LOT 9 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-310-034-000	A	100.00	100.00	1	LOT 223 WOODCREEK OAKS UNIT 10 S-22
477-550-031-000	A	100.00	100.00	1	LOT 66 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-230-014-000	A	100.00	100.00	1	LOT 36 RIDGEWOOD UNIT 1 R-87
477-630-011-000	A	100.00	100.00	1	LOT 149 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-310-016-000	A	100.00	100.00	1	LOT 205 WOODCREEK OAKS UNIT 10 S-22
477-420-060-000	A	100.00	100.00	1	LOT 424 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-640-005-000	A	100.00	100.00	1	LOT 132 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-440-004-000	A	100.00	100.00	1	LOT 4 RIDGEWOOD OAKS UNIT NO 5 T-59
477-420-024-000	A	100.00	100.00	1	LOT 373 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-320-002-000	A	100.00	100.00	1	LOT 12 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-640-023-000	A	100.00	100.00	1	LOT 195 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-260-015-000	A	100.00	100.00	1	LOT 83 WOODCREEK OAKS UNIT 9-C S-15
477-290-004-000	A	100.00	100.00	1	LOT 56 WOODCREEK OAKS UNIT 9-D S-16
477-380-032-000	A	100.00	100.00	1	LOT 165 WOODCREEK OAKS VILLAGE #12 PH C S-52
480-040-011-000	A	100.00	100.00	1	LOT 46 SILVERADO OAKS UNIT NO 7 PH A T-77
477-480-001-000	A	100.00	100.00	1	LOT 45 WOODCREEK OAKS VILL 4 PHASE B T-66
477-410-038-000	A	100.00	100.00	1	LOT 49 & POR LOT 50 WOODCREEK OAKS VILLAGE8UN B MO
477-580-019-000	A	100.00	100.00	1	LOT 99 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-200-007-000	A	100.00	100.00	1	LOT 7 RIDGEWOOD UNIT 1 R-87
480-010-045-000	A	100.00	100.00	1	LOT 45 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-330-010-000	A	100.00	100.00	1	LOT 10 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-610-017-000	A	100.00	100.00	1	LOT 179 WOODCREEK OAKS VILL 2 U-20
477-310-067-000	A	100.00	100.00	1	LOT 256 WOODCREEK OAKS UNIT 10 S-22
477-440-022-000	A	100.00	100.00	1	LOT 22 RIDGEWOOD OAKS UNIT NO 5 T-59
480-010-063-000	A	100.00	100.00	1	LOT 63 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-420-042-000	A	100.00	100.00	1	LOT 391 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-380-050-000	A	100.00	100.00	1	LOT 183 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-200-025-000	A	100.00	100.00	1	LOT 168 RIDGEWOOD UNIT 3 MORS S-41
477-370-006-000	A	100.00	100.00	1	LOT 82 WOODCREEK OAKS VILLAGE #12 PH B S-51

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-210-011-000	A	100.00	100.00	1	LOT 49 RIDGEWOOD UNIT 1 R-87
477-540-009-000	A	100.00	100.00	1	LOT 246 WOODCREEK OAKS VILL 3 T-67
480-050-008-000	A	100.00	100.00	1	LOT 8 SILVERADO OAKS UNIT NO 7 PH A T-77
477-570-016-000	A	100.00	100.00	1	LOT 337 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
480-090-038-000	A	100.00	100.00	1	LOT 392 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-080-015-000	A	100.00	100.00	1	LOT 409 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-660-039-000	A	100.00	100.00	1	LOT 175 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-350-033-000	A	100.00	100.00	1	LOT 151 WOODCREEK OAKS VILLAGE 7C S-33
477-430-004-000	A	100.00	100.00	1	LOT 349 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
480-040-003-000	A	100.00	100.00	1	LOT 38 SILVERADO OAKS UNIT NO 7 PH A T-77
477-360-056-000	A	100.00	100.00	1	LOT 148 RIDGEWOOD UNIT 2 S-40
477-230-029-000	A	100.00	100.00	1	LOT 69 RIDGEWOOD UNIT 1 R-87
477-210-003-000	A	100.00	100.00	1	LOT 41 RIDGEWOOD UNIT 1 R-87
477-310-049-000	A	100.00	100.00	1	LOT 238 WOODCREEK OAKS UNIT 10 S-22
477-360-038-000	A	100.00	100.00	1	LOT 130 RIDGEWOOD UNIT 2 S-40
480-040-021-000	A	100.00	100.00	1	LOT 120 SILVERADO OAKS UNIT NO 7 PH A T-77
477-280-018-000	A	100.00	100.00	1	LOT 141 WOODCREEK OAKS UNIT 9-D S-16
477-350-015-000	A	100.00	100.00	1	LOT 133 WOODCREEK OAKS VILLAGE 7C S-33
480-020-041-000	A	100.00	100.00	1	LOT 121 SILVERADO VILLAGE UNIT 2 PH B S-39
477-240-006-000	A	100.00	100.00	1	LOT 34 WOODCREEK OAKS UNIT 9-A S-13
480-070-010-000	A	100.00	100.00	1	LOT 69 SILVERADO OAKS UNIT NO 7 PH A T-77
477-390-027-000	A	100.00	100.00	1	LOT 91 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-030-028-000	A	100.00	100.00	1	LOT 115 SILVERADO OAKS UNIT NO 7 PH A T-77
477-270-031-000	A	100.00	100.00	1	LOT 115 WOODCREEK OAKS UNIT 9-C S-15
477-380-004-000	A	100.00	100.00	1	LOT 137 WOODCREEK OAKS VILLAGE #12 PH C S-52
480-020-005-000	A	100.00	100.00	1	LOT 85 SILVERADO VILLAGE UNIT 2 PH B S-39
477-220-008-000	A	100.00	100.00	1	LOT 65 RIDGEWOOD UNIT 1 R-87
477-460-007-000	A	100.00	100.00	1	LOT 19 WOODCREEK OAKS VILL 4-PH A T-65
480-010-078-000	A	100.00	100.00	1	LOT 78 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-080-051-000	A	100.00	100.00	1	POR LT 390 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-270-013-000	A	100.00	100.00	1	LOT 97 WOODCREEK OAKS UNIT 9-C S-15
480-020-023-000	A	100.00	100.00	1	LOT 103 SILVERADO VILLAGE UNIT 2 PH B S-39
477-650-018-000	A	100.00	100.00	1	LOT 129 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-630-003-000	A	100.00	100.00	1	LOT 141 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-500-001-000	A	100.00	100.00	1	LOT 61 WOODCREEK OAKS VILL 4-PH B T-66
477-300-028-000	A	100.00	100.00	1	LOT 288 WOODCREEK OAKS UNIT 10 S-22
477-320-030-000	A	100.00	100.00	1	LOT 40 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-340-010-000	A	100.00	100.00	1	LOT 93 WOODCREEK OAKS VILLAGE 7B S-32
477-450-002-000	A	100.00	100.00	1	LOT 2 WOODCREEK OAKS VILL 4-PH A T-65
477-630-021-000	A	100.00	100.00	1	LOT 159 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-430-022-000	A	100.00	100.00	1	LOT 452 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-390-009-000	A	100.00	100.00	1	LOT 9 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-200-058-000	A	100.00	100.00	1	LOT 201 RIDGEWOOD UNIT 3 MOR S-41
477-190-028-000	A	100.00	100.00	1	LOT 37 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-330-017-000	A	100.00	100.00	1	LOT 64 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-610-010-000	A	100.00	100.00	1	LOT 172 WOODCREEK OAKS VILL 2 U-20
477-420-059-000	A	100.00	100.00	1	LOT 423 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-600-014-000	A	100.00	100.00	1	LOT 195 WOODCREEK OAKS VILL 2 U-20
477-190-046-000	A	100.00	100.00	1	LOT 102 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-300-046-000	A	100.00	100.00	1	LOT 314 WOODCREEK OAKS UNIT 10 S-22
477-240-024-000	A	100.00	100.00	1	LOT 174 WOODCREEK OAKS UNIT 9-A S-13
477-510-006-000	A	100.00	100.00	1	LOT 307 WOODCREEK OAKS VILL 3 T-67
477-360-003-000	A	100.00	100.00	1	LOT 95 RIDGEWOOD UNIT 2 S-40
477-410-011-000	A	100.00	100.00	1	LOT 55 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-520-012-000	A	100.00	100.00	1	LOT 297 WOODCREEK OAKS VILL 3 T-67
477-650-036-000	A	100.00	100.00	1	LOT 147 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-310-070-000	A	100.00	100.00	1	LOT 259 WOODCREEK OAKS UNIT 10 S-22
477-250-020-000	A	100.00	100.00	1	LOT 22 WOODCREEK OAKS UNIT 9-B S-14
477-400-015-000	A	100.00	100.00	1	LOT 30 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-360-021-000	A	100.00	100.00	1	LOT 113 RIDGEWOOD UNIT 2 S-40
477-570-034-000	A	100.00	100.00	1	LOT 443 WOODCREEK OAKS VILLAGE 11 UNIT C T-80
477-560-028-000	A	100.00	100.00	1	LOT 28 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-480-008-000	A	100.00	100.00	1	LOT 52 WOODCREEK OAKS VILL 4 PHASE B T-66
477-190-064-000	A	100.00	100.00	1	LOT 145 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-380-029-000	A	100.00	100.00	1	LOT 162 WOODCREEK OAKS VILLAGE #12 PH C S-52

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
477-490-014-000	A	100.00	100.00	1	LOT 84 WOODCREEK OAKS VILL 4 PHASE B T-66
480-090-011-000	A	100.00	100.00	1	LOT 364 SILVERADO OAKS UNIT 7 PH F MOR T-82
477-200-015-000	A	100.00	100.00	1	LOT 15 RIDGEWOOD UNIT 1 R-87
477-230-022-000	A	100.00	100.00	1	LOT 56 RIDGEWOOD UNIT 1 R-87
480-020-048-000	A	100.00	100.00	1	LOT 128 SILVERADO VILLAGE UNIT 2 PH B S-39
480-070-009-000	A	100.00	100.00	1	LOT 68 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-038-000	A	100.00	100.00	1	LOT 229 RIDGEWOOD UNIT 4 S-100
477-370-052-000	A	100.00	100.00	1	POR LOT 111 WOODCREEK OAKS VILLAGE #12 PH B S-51
480-010-053-000	A	100.00	100.00	1	LOT 53 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-380-057-000	A	100.00	100.00	1	LOT 120 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-280-001-000	A	100.00	100.00	1	LOT 40 WOODCREEK OAKS UNIT 9-D S-16
477-370-034-000	A	100.00	100.00	1	LOT 110 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-550-005-000	A	100.00	100.00	1	LOT 38 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
477-660-050-000	A	100.00	100.00	1	LOT 186 WOODCREEK OAKS VILLAGE 5B MOR V-28
480-010-035-000	A	100.00	100.00	1	LOT 35 SILVERADO VILLAGE UNIT 2 PHASE A S-38
480-060-004-000	A	100.00	100.00	1	LOT 24 SILVERADO OAKS UNIT NO 7 PH A T-77
477-230-040-000	A	100.00	100.00	1	LOT 80 RIDGEWOOD UNIT 1 R-87
480-070-027-000	A	100.00	100.00	1	LOT 86 SILVERADO OAKS UNIT NO 7 PH A T-77
477-210-056-000	A	100.00	100.00	1	LOT 247 RIDGEWOOD UNIT 4 S-100
477-340-009-000	A	100.00	100.00	1	LOT 92 WOODCREEK OAKS VILLAGE 7B S-32
477-550-023-000	A	100.00	100.00	1	LOT 58 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-010-017-000	A	100.00	100.00	1	LOT 17 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-580-012-000	A	100.00	100.00	1	LOT 92 WOODCREEK OAKS UNIT 1 PH B MOR U-4
477-540-010-000	A	100.00	100.00	1	LOT 247 WOODCREEK OAKS VILL 3 T-67
477-660-032-000	A	100.00	100.00	1	LOT 168 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-200-033-000	A	100.00	100.00	1	LOT 176 RIDGEWOOD UNIT 3 MOR S-41
480-010-071-000	A	100.00	100.00	1	LOT 71 SILVERADO VILLAGE UNIT 2 PHASE A S-38
477-250-002-000	A	100.00	100.00	1	LOT 2 WOODCREEK OAKS UNIT 9-B S-14
477-260-025-000	A	100.00	100.00	1	LOT 93 WOODCREEK OAKS UNIT 9-C S-15
477-390-010-000	A	100.00	100.00	1	LOT 10 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
480-030-011-000	A	100.00	100.00	1	LOT 58 SILVERADO OAKS UNIT NO 7 PH A T-77
477-310-042-000	A	100.00	100.00	1	LOT 231 WOODCREEK OAKS UNIT 10 S-22
477-660-014-000	A	100.00	100.00	1	LOT 117 WOODCREEK OAKS VILLAGE 5B MOR V-28
477-200-051-000	A	100.00	100.00	1	LOT 194 RIDGEWOOD UNIT 3 MOR S-41
477-420-016-000	A	100.00	100.00	1	LOT 365 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-430-029-000	A	100.00	100.00	1	LOT 459 WOODCREEK OAKS VILLAGE 11 UNIT B T-8
477-650-001-000	A	100.00	100.00	1	LOT 112 WOODCREEK OAKS UNIT #1 PH C MOR U-75
477-310-024-000	A	100.00	100.00	1	LOT 213 WOODCREEK OAKS UNIT 10 S-22
477-230-004-000	A	100.00	100.00	1	LOT 26 RIDGEWOOD UNIT 1 R-87
477-260-007-000	A	100.00	100.00	1	LOT 75 WOODCREEK OAKS UNIT 9-C S-15
477-300-011-000	A	100.00	100.00	1	LOT 271 WOODCREEK OAKS UNIT 10 S-22
477-320-047-000	A	100.00	100.00	1	LOT 57 WOODCREEK OAKS VILLAGE #12 PH A S-27
477-340-027-000	A	100.00	100.00	1	LOT 110 WOODCREEK OAKS VILLAGE 7B S-32
477-190-011-000	A	100.00	100.00	1	LOT 20 WOODCREEK OAKS VILLAGE 8 UNIT A S-3
477-610-027-000	A	100.00	100.00	1	LOT 230 WOODCREEK OAKS VILL 2 U-20
477-440-014-000	A	100.00	100.00	1	LOT 14 RIDGEWOOD OAKS UNIT NO 5 T-59
477-310-006-000	A	100.00	100.00	1	LOT 195 WOODCREEK OAKS UNIT 10 S-22
477-620-015-000	A	100.00	100.00	1	LOT 213 WOODCREEK OAKS VILL 2 U-20
477-470-003-000	A	100.00	100.00	1	LOT 17 WOODCREEK OAKS VILL 4-PH A T-65
477-610-009-000	A	100.00	100.00	1	LOT 171 WOODCREEK OAKS VILL 2 U-20
477-250-019-000	A	100.00	100.00	1	LOT 21 WOODCREEK OAKS UNIT 9-B S-14
477-530-007-000	A	100.00	100.00	1	LOT 252 WOODCREEK OAKS VILL 3 T-67
477-640-013-000	A	100.00	100.00	1	LOT 161 WOODCREEK OAKS VILLAGE 5A MOR U-56
477-410-028-000	A	100.00	100.00	1	LOT 77 WOODCREEK OAKS VILLAGE 8 UNIT B MOR S-74
477-420-034-000	A	100.00	100.00	1	LOT 383 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-290-014-000	A	100.00	100.00	1	LOT 126 WOODCREEK OAKS UNIT 9-D S-16
477-380-022-000	A	100.00	100.00	1	LOT 155 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-420-052-000	A	100.00	100.00	1	LOT 401 WOODCREEK OAKS VILLAGE II UNIT A T-7
477-530-025-000	A	100.00	100.00	1	LOT 283 WOODCREEK OAKS VILL 3 T-67
477-310-077-000	A	100.00	100.00	1	LOT 295 WOODCREEK OAKS UNIT 10 S-22
477-380-040-000	A	100.00	100.00	1	LOT 173 WOODCREEK OAKS VILLAGE #12 PH C S-52
477-370-016-000	A	100.00	100.00	1	LOT 92 WOODCREEK OAKS VILLAGE #12 PH B S-51
477-440-032-000	A	100.00	100.00	1	LOT 32 RIDGEWOOD OAKS UNIT NO 5 T-59
477-560-011-000	A	100.00	100.00	1	LOT 11 WOODCREEK OAKS UNIT NO 1 PH A MOR T-68
480-110-016-000	A	100.00	100.00	1	LOT 205 SILVERADO OAKS #7 PH C MOR U-52

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-100-022-000	A	100.00	100.00	1	LOT 142A SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-004-000	A	100.00	100.00	1	LOT 125 SILVERADO OAKS UNIT NO 7 PH B U-16
480-160-012-000	A	100.00	100.00	1	LOT 443 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-006-000	A	100.00	100.00	1	LOT 26 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-170-042-000	A	100.00	100.00	1	LOT 62 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-052-000	A	100.00	100.00	1	LOT 248 SILVERADO OAKS #7 PH C MOR U-52
480-110-034-000	A	100.00	100.00	1	LOT 223 SILVERADO OAKS #7 PH C MOR U-52
480-100-029-000	A	100.00	100.00	1	LOT 147 SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-057-000	A	100.00	100.00	1	LOT 170 SILVERADO OAKS UNIT NO 7 PH B U-16
480-120-003-000	A	100.00	100.00	1	LOT 230 SILVERADO OAKS #7 PH C MOR U-52
480-140-005-000	A	100.00	100.00	1	LOT 307 SILVERADO OAKS #7 PH C MOR U-52
480-120-021-000	A	100.00	100.00	1	LOT 271 SILVERADO OAKS #7 PH C MOR U-52
480-100-075-000	A	100.00	100.00	1	LOT 186 SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-035-000	A	100.00	100.00	1	LOT 484 SILVERADO OAKS UNIT NO 7 PHASE G BK V PG74
480-150-017-000	A	100.00	100.00	1	LOT 466 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-140-023-000	A	100.00	100.00	1	LOT 343 SILVERADO OAKS #7 PH C MOR U-52
480-160-030-000	A	100.00	100.00	1	LOT 497 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-130-015-000	A	100.00	100.00	1	LOT 302 SILVERADO OAKS #7 PH C MOR U-52
480-110-059-000	A	100.00	100.00	1	LOT 255 SILVERADO OAKS #7 PH C MOR U-52
480-130-033-000	A	100.00	100.00	1	LOT 326 SILVERADO OAKS #7 PH C MOR U-52
480-100-040-000	A	100.00	100.00	1	LOT 156 SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-010-000	A	100.00	100.00	1	LOT 459 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-006-000	A	100.00	100.00	1	LOT 195 SILVERADO OAKS #7 PH C MOR U-52
480-100-032-000	A	100.00	100.00	1	LOT 150 SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-014-000	A	100.00	100.00	1	LOT 134 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-016-000	A	100.00	100.00	1	LOT 36 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-002-000	A	100.00	100.00	1	LOT 433 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-160-037-000	A	100.00	100.00	1	LOT 504 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-034-000	A	100.00	100.00	1	LOT 54 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-019-000	A	100.00	100.00	1	LOT 486 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-060-000	A	100.00	100.00	1	LOT 256 SILVERADO OAKS #7 PH C MOR U-52
480-170-052-000	A	100.00	100.00	1	POR LOT 43 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-120-011-000	A	100.00	100.00	1	LOT 261 SILVERADO OAKS #7 PH C MOR U-52
480-110-042-000	A	100.00	100.00	1	LOT 238 SILVERADO OAKS #7 PH C MOR U-52
480-110-024-000	A	100.00	100.00	1	LOT 213 SILVERADO OAKS #7 PH C MOR U-52
480-150-027-000	A	100.00	100.00	1	LOT 476 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-100-039-000	A	100.00	100.00	1	LOT 155 SILVERADO OAKS UNIT NO 7 PH B U-16
480-130-025-000	A	100.00	100.00	1	LOT 318 SILVERADO OAKS #7 PH C MOR U-52
480-150-009-000	A	100.00	100.00	1	LOT 458 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-130-007-000	A	100.00	100.00	1	LOT 294 SILVERADO OAKS #7 PH C MOR U-52
480-140-013-000	A	100.00	100.00	1	LOT 333 SILVERADO OAKS #7 PH C MOR U-52
480-160-020-000	A	100.00	100.00	1	LOT 487 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-049-000	A	100.00	100.00	1	LOT 245 SILVERADO OAKS #7 PH C MOR U-52
480-120-028-000	A	100.00	100.00	1	LOT 278 SILVERADO OAKS #7 PH C MOR U-52
480-100-050-000	A	100.00	100.00	1	LOT 164 SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-002-000	A	100.00	100.00	1	LOT 123B SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-054-000	A	100.00	100.00	1	LOT 250 SILVERADO OAKS #7 PH C MOR U-52
480-110-036-000	A	100.00	100.00	1	LOT 225 SILVERADO OAKS #7 PH C MOR U-52
480-170-008-000	A	100.00	100.00	1	LOT 28 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-014-000	A	100.00	100.00	1	LOT 445 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-018-000	A	100.00	100.00	1	LOT 207 SILVERADO OAKS #7 PH C MOR U-52
480-170-026-000	A	100.00	100.00	1	LOT 46 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-170-044-000	A	100.00	100.00	1	LOT 64 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-032-000	A	100.00	100.00	1	LOT 499 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-100-037-000	A	100.00	100.00	1	LOT 154A SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-019-000	A	100.00	100.00	1	LOT 139 SILVERADO OAKS UNIT NO 7 PH B U-16
480-140-021-000	A	100.00	100.00	1	LOT 341 SILVERADO OAKS #7 PH C MOR U-52
480-110-001-000	A	100.00	100.00	1	LOT 190 SILVERADO OAKS #7 PH C MOR U-52
480-100-055-000	A	100.00	100.00	1	LOT 168 SILVERADO OAKS UNIT NO 7 PH B U-16
480-120-005-000	A	100.00	100.00	1	LOT 232 SILVERADO OAKS #7 PH C MOR U-52
480-120-023-000	A	100.00	100.00	1	LOT 273 SILVERADO OAKS #7 PH C MOR U-52
480-140-003-000	A	100.00	100.00	1	LOT 305 SILVERADO OAKS #7 PH C MOR U-52
480-130-017-000	A	100.00	100.00	1	LOT 310 SILVERADO OAKS #7 PH C MOR U-52
480-100-073-000	A	100.00	100.00	1	LOT 184 SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-033-000	A	100.00	100.00	1	LOT 482 SILVERADO OAKS UNIT NO 7 PHASE G V-74

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Northwest Roseville Landscaping & Lighting District
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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-150-015-000	A	100.00	100.00	1	LOT 464 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-090-049-000	A	100.00	100.00	1	LOT 402 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-100-020-000	A	100.00	100.00	1	LOT 140 SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-044-000	A	100.00	100.00	1	LOT 240 SILVERADO OAKS #7 PH C MOR U-52
480-130-010-000	A	100.00	100.00	1	LOT 297 SILVERADO OAKS #7 PH C MOR U-52
480-100-012-000	A	100.00	100.00	1	LOT 132 SILVERADO OAKS UNIT NO 7 PH B U-16
480-160-004-000	A	100.00	100.00	1	LOT 435 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-018-000	A	100.00	100.00	1	LOT 38 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-026-000	A	100.00	100.00	1	LOT 215 SILVERADO OAKS #7 PH C MOR U-52
480-160-022-000	A	100.00	100.00	1	LOT 489 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-036-000	A	100.00	100.00	1	LOT 56 SILVERADO OAKS UNIT NO 8 MOR V-75
480-110-008-000	A	100.00	100.00	1	LOT 197 SILVERADO OAKS #7 PH C MOR U-52
480-140-011-000	A	100.00	100.00	1	LOT 331 SILVERADO OAKS #7 PH C MOR U-52
480-120-013-000	A	100.00	100.00	1	LOT 263 SILVERADO OAKS #7 PH C MOR U-52
480-100-047-000	A	100.00	100.00	1	LOT 162A SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-001-000	A	100.00	100.00	1	LOT 21 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-130-009-000	A	100.00	100.00	1	LOT 296 SILVERADO OAKS #7 PH C MOR U-52
480-120-031-000	A	100.00	100.00	1	LOT 281 SILVERADO OAKS #7 PH C MOR U-52
480-100-065-000	A	100.00	100.00	1	LOT 177A SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-025-000	A	100.00	100.00	1	LOT 474 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-160-029-000	A	100.00	100.00	1	LOT 496 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-130-027-000	A	100.00	100.00	1	LOT 320 SILVERADO OAKS #7 PH C MOR U-52
480-150-007-000	A	100.00	100.00	1	LOT 456 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-090-059-000	A	100.00	100.00	1	LOT 385 A & POR 385 B SILVERADO OAKS U7 PH F T-82
480-140-028-000	A	100.00	100.00	1	LOT 348 SILVERADO OAKS #7 PH C MOR U-52
480-100-030-000	A	100.00	100.00	1	LOT 148 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-019-000	A	100.00	100.00	1	LOT 39 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-090-057-000	A	100.00	100.00	1	LOT 378 A & POR 378 B SILVERADO OAKS U7 PH F T-82
480-160-034-000	A	100.00	100.00	1	LOT 501 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-037-000	A	100.00	100.00	1	LOT 57 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-130-011-000	A	100.00	100.00	1	LOT 298 SILVERADO OAKS #7 PH C MOR U-52
480-110-047-000	A	100.00	100.00	1	LOT 243 SILVERADO OAKS #7 PH C MOR U-52
480-140-010-000	A	100.00	100.00	1	LOT 330 SILVERADO OAKS #7 PH C MOR U-52
480-100-026-000	A	100.00	100.00	1	LOT 144 SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-012-000	A	100.00	100.00	1	LOT 201 SILVERADO OAKS #7 PH C MOR U-52
480-100-069-000	A	100.00	100.00	1	LOT 180 SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-008-000	A	100.00	100.00	1	LOT 129 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-002-000	A	100.00	100.00	1	LOT 22 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-016-000	A	100.00	100.00	1	LOT 447 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-020-000	A	100.00	100.00	1	LOT 40 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-130-028-000	A	100.00	100.00	1	LOT 321 SILVERADO OAKS #7 PH C MOR U-52
480-110-030-000	A	100.00	100.00	1	LOT 219 SILVERADO OAKS #7 PH C MOR U-52
480-100-044-000	A	100.00	100.00	1	LOT 160A SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-062-000	A	100.00	100.00	1	LOT 175 SILVERADO OAKS UNIT NO 7 PH B U-16
480-120-007-000	A	100.00	100.00	1	LOT 234 SILVERADO OAKS #7 PH C MOR U-52
480-120-025-000	A	100.00	100.00	1	LOT 275 SILVERADO OAKS #7 PH C MOR U-52
480-140-009-000	A	100.00	100.00	1	LOT 329 SILVERADO OAKS #7 PH C MOR U-52
480-150-031-000	A	100.00	100.00	1	LOT 480 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-150-013-000	A	100.00	100.00	1	LOT 462 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-140-027-000	A	100.00	100.00	1	LOT 347 SILVERADO OAKS #7 PH C MOR U-52
480-170-047-000	A	100.00	100.00	1	LOT 67 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-055-000	A	100.00	100.00	1	LOT 251 SILVERADO OAKS #7 PH C MOR U-52
480-160-024-000	A	100.00	100.00	1	LOT 491 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-037-000	A	100.00	100.00	1	LOT 226 SILVERADO OAKS #7 PH C MOR U-52
480-110-019-000	A	100.00	100.00	1	LOT 208 SILVERADO OAKS #7 PH C MOR U-52
480-110-002-000	A	100.00	100.00	1	LOT 191 SILVERADO OAKS #7 PH C MOR U-52
480-100-079-000	A	100.00	100.00	1	LOT 189B SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-036-000	A	100.00	100.00	1	LOT 153 SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-018-000	A	100.00	100.00	1	LOT 138 SILVERADO OAKS UNIT NO 7 PH B U-16
480-090-050-000	A	100.00	100.00	1	LOT 403 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-160-006-000	A	100.00	100.00	1	LOT 437 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-012-000	A	100.00	100.00	1	LOT 32 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-170-030-000	A	100.00	100.00	1	LOT 50 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-120-015-000	A	100.00	100.00	1	LOT 265 SILVERADO OAKS #7 PH C MOR U-52
480-100-054-000	A	100.00	100.00	1	LOT 167B SILVERADO OAKS UNIT NO 7 PH B U-16

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-120-033-000	A	100.00	100.00	1	LOT 283 SILVERADO OAKS #7 PH C MOR U-52
480-110-020-000	A	100.00	100.00	1	LOT 209 SILVERADO OAKS #7 PH C MOR U-52
480-150-023-000	A	100.00	100.00	1	LOT 472 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-100-072-000	A	100.00	100.00	1	LOT 183 SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-005-000	A	100.00	100.00	1	LOT 454 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-130-021-000	A	100.00	100.00	1	LOT 314 SILVERADO OAKS #7 PH C MOR U-52
480-130-003-000	A	100.00	100.00	1	LOT 290 SILVERADO OAKS #7 PH C MOR U-52
480-100-001-000	A	100.00	100.00	1	LOT 123A SILVERADO OAKS UNIT NO 7 PH B U-16
480-140-017-000	A	100.00	100.00	1	LOT 337 SILVERADO OAKS #7 PH C MOR U-52
480-150-011-000	A	100.00	100.00	1	LOT 460 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-090-055-000	A	100.00	100.00	1	POR LT 385B SILVERADO OAKS UNIT 7 PH F MOR T-82
480-100-024-000	A	100.00	100.00	1	LOT 143A SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-050-000	A	100.00	100.00	1	LOT 246 SILVERADO OAKS #7 PH C MOR U-52
480-100-006-000	A	100.00	100.00	1	LOT 127 SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-032-000	A	100.00	100.00	1	LOT 221 SILVERADO OAKS #7 PH C MOR U-52
480-160-018-000	A	100.00	100.00	1	LOT 449 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-004-000	A	100.00	100.00	1	LOT 24 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-014-000	A	100.00	100.00	1	LOT 203 SILVERADO OAKS #7 PH C MOR U-52
480-100-049-000	A	100.00	100.00	1	LOT 163 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-022-000	A	100.00	100.00	1	LOT 42 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-036-000	A	100.00	100.00	1	LOT 503 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-120-010-000	A	100.00	100.00	1	LOT 260 SILVERADO OAKS #7 PH C MOR U-52
480-170-040-000	A	100.00	100.00	1	LOT 60 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-100-067-000	A	100.00	100.00	1	LOT 178 SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-028-000	A	100.00	100.00	1	LOT 477 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-039-000	A	100.00	100.00	1	LOT 235 SILVERADO OAKS #7 PH C MOR U-52
480-160-001-000	A	100.00	100.00	1	LOT 432 SILVERADO OAKS UNIT NO 7 PHASE G MOR V-74
480-130-031-000	A	100.00	100.00	1	LOT 324 SILVERADO OAKS #7 PH C MOR U-52
480-140-025-000	A	100.00	100.00	1	LOT 345 SILVERADO OAKS #7 PH C MOR U-52
480-100-042-000	A	100.00	100.00	1	LOT 158 SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-060-000	A	100.00	100.00	1	LOT 173 SILVERADO OAKS UNIT NO 7 PH B U-16
480-120-009-000	A	100.00	100.00	1	LOT 259 SILVERADO OAKS #7 PH C MOR U-52
480-170-029-000	A	100.00	100.00	1	LOT 49 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-120-027-000	A	100.00	100.00	1	LOT 277 SILVERADO OAKS #7 PH C MOR U-52
480-140-007-000	A	100.00	100.00	1	LOT 327 SILVERADO OAKS #7 PH C MOR U-52
480-130-013-000	A	100.00	100.00	1	LOT 300 SILVERADO OAKS #7 PH C MOR U-52
480-090-047-000	A	100.00	100.00	1	LOT 400 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-110-057-000	A	100.00	100.00	1	LOT 253 SILVERADO OAKS #7 PH C MOR U-52
480-100-034-000	A	100.00	100.00	1	LOT 151B SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-040-000	A	100.00	100.00	1	LOT 236 SILVERADO OAKS #7 PH C MOR U-52
480-100-016-000	A	100.00	100.00	1	LOT 136 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-014-000	A	100.00	100.00	1	LOT 34 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-008-000	A	100.00	100.00	1	LOT 439 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-022-000	A	100.00	100.00	1	LOT 211 SILVERADO OAKS #7 PH C MOR U-52
480-100-059-000	A	100.00	100.00	1	LOT 172 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-032-000	A	100.00	100.00	1	LOT 52 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-004-000	A	100.00	100.00	1	LOT 193 SILVERADO OAKS #7 PH C MOR U-52
480-100-077-000	A	100.00	100.00	1	LOT 188 SILVERADO OAKS UNIT NO 7 PH B U-16
480-160-026-000	A	100.00	100.00	1	LOT 493 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-140-015-000	A	100.00	100.00	1	LOT 335 SILVERADO OAKS #7 PH C MOR U-52
480-110-029-000	A	100.00	100.00	1	LOT 218 SILVERADO OAKS #7 PH C MOR U-52
480-120-017-000	A	100.00	100.00	1	LOT 267 SILVERADO OAKS #7 PH C MOR U-52
480-100-052-000	A	100.00	100.00	1	LOT 166 SILVERADO OAKS UNIT NO 7 PH B U-16
480-130-005-000	A	100.00	100.00	1	LOT 292 SILVERADO OAKS #7 PH C MOR U-52
480-120-035-000	A	100.00	100.00	1	LOT 285 SILVERADO OAKS #7 PH C MOR U-52
480-150-021-000	A	100.00	100.00	1	LOT 470 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-100-070-000	A	100.00	100.00	1	LOT 181 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-039-000	A	100.00	100.00	1	LOT 59 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-130-023-000	A	100.00	100.00	1	LOT 316 SILVERADO OAKS #7 PH C MOR U-52
480-150-003-000	A	100.00	100.00	1	LOT 452 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-007-000	A	100.00	100.00	1	LOT 196 SILVERADO OAKS #7 PH C MOR U-52
480-100-031-000	A	100.00	100.00	1	LOT 149 SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-025-000	A	100.00	100.00	1	LOT 214 SILVERADO OAKS #7 PH C MOR U-52
480-100-013-000	A	100.00	100.00	1	LOT 133 SILVERADO OAKS UNIT NO 7 PH B U-16
480-160-003-000	A	100.00	100.00	1	LOT 434 SILVERADO OAKS UNIT NO 7 PHASE G V-74

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-160-021-000	A	100.00	100.00	1	LOT 488 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-090-053-000	A	100.00	100.00	1	POR LT 379A SILVERADO OAKS UNIT 7 PH F MOR T-82
480-170-015-000	A	100.00	100.00	1	LOT 35 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-170-033-000	A	100.00	100.00	1	LOT 53 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-061-000	A	100.00	100.00	1	LOT 257 SILVERADO OAKS #7 PH C MOR U-52
480-120-030-000	A	100.00	100.00	1	LOT 280 SILVERADO OAKS #7 PH C MOR U-52
480-110-043-000	A	100.00	100.00	1	LOT 239 SILVERADO OAKS #7 PH C MOR U-52
480-150-008-000	A	100.00	100.00	1	LOT 457 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-140-014-000	A	100.00	100.00	1	LOT 334 SILVERADO OAKS #7 PH C MOR U-52
480-100-066-000	A	100.00	100.00	1	LOT 177B SILVERADO OAKS UNIT NO 7 PH B U-16
480-120-012-000	A	100.00	100.00	1	LOT 262 SILVERADO OAKS #7 PH C MOR U-52
480-130-006-000	A	100.00	100.00	1	LOT 293 SILVERADO OAKS #7 PH C MOR U-52
480-150-026-000	A	100.00	100.00	1	LOT 475 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-130-024-000	A	100.00	100.00	1	LOT 317 SILVERADO OAKS #7 PH C MOR U-52
480-140-029-000	A	100.00	100.00	1	LOT 349 SILVERADO OAKS #7 PH C MOR U-52
480-150-001-000	A	100.00	100.00	1	LOT 450 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-100-023-000	A	100.00	100.00	1	LOT 142B SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-007-000	A	100.00	100.00	1	LOT 27 SILVERADO OAKS UNIT NO 8 MOR V-75
480-170-025-000	A	100.00	100.00	1	LOT 45 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-100-005-000	A	100.00	100.00	1	LOT 126 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-043-000	A	100.00	100.00	1	LOT 63 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-028-000	A	100.00	100.00	1	LOT 495 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-051-000	A	100.00	100.00	1	LOT 247 SILVERADO OAKS #7 PH C MOR U-52
480-110-033-000	A	100.00	100.00	1	LOT 222 SILVERADO OAKS #7 PH C MOR U-52
480-120-020-000	A	100.00	100.00	1	LOT 270 SILVERADO OAKS #7 PH C MOR U-52
480-110-015-000	A	100.00	100.00	1	LOT 204 SILVERADO OAKS #7 PH C MOR U-52
480-100-048-000	A	100.00	100.00	1	LOT 162B SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-018-000	A	100.00	100.00	1	LOT 467 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-140-004-000	A	100.00	100.00	1	LOT 306 SILVERADO OAKS #7 PH C MOR U-52
480-100-076-000	A	100.00	100.00	1	LOT 187 SILVERADO OAKS UNIT NO 7 PH B U-16
480-140-022-000	A	100.00	100.00	1	LOT 342 SILVERADO OAKS #7 PH C MOR U-52
480-120-002-000	A	100.00	100.00	1	LOT 229 SILVERADO OAKS #7 PH C MOR U-52
480-130-016-000	A	100.00	100.00	1	LOT 309 SILVERADO OAKS #7 PH C MOR U-52
480-150-036-000	A	100.00	100.00	1	LOT 485 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-160-011-000	A	100.00	100.00	1	LOT 442 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-058-000	A	100.00	100.00	1	LOT 254 SILVERADO OAKS #7 PH C MOR U-52
480-120-019-000	A	100.00	100.00	1	LOT 269 SILVERADO OAKS #7 PH C MOR U-52
480-100-041-000	A	100.00	100.00	1	LOT 157 SILVERADO OAKS UNIT NO 7 PH B U-16
480-120-037-000	A	100.00	100.00	1	LOT 287 SILVERADO OAKS #7 PH C MOR U-52
480-160-005-000	A	100.00	100.00	1	LOT 436 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-160-023-000	A	100.00	100.00	1	LOT 490 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-045-000	A	100.00	100.00	1	LOT 241 SILVERADO OAKS #7 PH C MOR U-52
480-110-009-000	A	100.00	100.00	1	LOT 198 SILVERADO OAKS #7 PH C MOR U-52
480-170-017-000	A	100.00	100.00	1	LOT 37 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-027-000	A	100.00	100.00	1	LOT 216 SILVERADO OAKS #7 PH C MOR U-52
480-170-035-000	A	100.00	100.00	1	LOT 55 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-170-053-000	A	100.00	100.00	1	LOT 44 & POR 43 SILVERADO OAKS UNIT NO 8 MOR V-75
480-090-051-000	A	100.00	100.00	1	POR LOT 378B SILVERADO OAKS UNIT 7 PH F MOR T-82
480-140-030-000	A	100.00	100.00	1	LOT 350 SILVERADO OAKS #7 PH C MOR U-52
480-100-028-000	A	100.00	100.00	1	LOT 146 SILVERADO OAKS UNIT NO 7 PH B U-16
480-130-008-000	A	100.00	100.00	1	LOT 295 SILVERADO OAKS #7 PH C MOR U-52
480-130-026-000	A	100.00	100.00	1	LOT 319 SILVERADO OAKS #7 PH C MOR U-52
480-120-032-000	A	100.00	100.00	1	LOT 282 SILVERADO OAKS #7 PH C MOR U-52
480-100-046-000	A	100.00	100.00	1	LOT 161 SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-006-000	A	100.00	100.00	1	LOT 455 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-100-064-000	A	100.00	100.00	1	LOT 176B SILVERADO OAKS UNIT NO 7 PH B U-16
480-140-012-000	A	100.00	100.00	1	LOT 332 SILVERADO OAKS #7 PH C MOR U-52
480-120-014-000	A	100.00	100.00	1	LOT 264 SILVERADO OAKS #7 PH C MOR U-52
480-110-010-000	A	100.00	100.00	1	LOT 199 SILVERADO OAKS #7 PH C MOR U-52
480-150-024-000	A	100.00	100.00	1	LOT 473 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-090-058-000	A	100.00	100.00	1	LOT 379 B & POR 379 A SILVERADO OAKS U7 PH F T-82
480-100-011-000	A	100.00	100.00	1	LOT 131B SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-035-000	A	100.00	100.00	1	LOT 224 SILVERADO OAKS #7 PH C MOR U-52
480-100-021-000	A	100.00	100.00	1	LOT 141 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-009-000	A	100.00	100.00	1	LOT 29 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-110-017-000	A	100.00	100.00	1	LOT 206 SILVERADO OAKS #7 PH C MOR U-52
480-120-029-000	A	100.00	100.00	1	LOT 279 SILVERADO OAKS #7 PH C MOR U-52
480-170-027-000	A	100.00	100.00	1	LOT 47 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-130-001-000	A	100.00	100.00	1	LOT 288 SILVERADO OAKS #7 PH C MOR U-52
480-100-003-000	A	100.00	100.00	1	LOT 124 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-045-000	A	100.00	100.00	1	LOT 65 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-031-000	A	100.00	100.00	1	LOT 498 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-160-013-000	A	100.00	100.00	1	LOT 444 SILVERADO OAKS UNIT #7 PHASE G MOR V-74
480-140-020-000	A	100.00	100.00	1	LOT 340 SILVERADO OAKS #7 PH C MOR U-52
480-100-038-000	A	100.00	100.00	1	LOT 154B SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-053-000	A	100.00	100.00	1	LOT 249 SILVERADO OAKS #7 PH C MOR U-52
480-120-022-000	A	100.00	100.00	1	LOT 272 SILVERADO OAKS #7 PH C MOR U-52
480-130-018-000	A	100.00	100.00	1	LOT 311 SILVERADO OAKS #7 PH C MOR U-52
480-170-010-000	A	100.00	100.00	1	LOT 30 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-100-056-000	A	100.00	100.00	1	LOT 169 SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-016-000	A	100.00	100.00	1	LOT 465 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-140-002-000	A	100.00	100.00	1	LOT 304 SILVERADO OAKS #7 PH C MOR U-52
480-100-074-000	A	100.00	100.00	1	LOT 185 SILVERADO OAKS UNIT NO 7 PH B U-16
480-120-004-000	A	100.00	100.00	1	LOT 231 SILVERADO OAKS #7 PH C MOR U-52
480-140-019-000	A	100.00	100.00	1	LOT 339 SILVERADO OAKS #7 PH C MOR U-52
480-150-034-000	A	100.00	100.00	1	LOT 483 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-028-000	A	100.00	100.00	1	LOT 48 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-170-046-000	A	100.00	100.00	1	LOT 66 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-056-000	A	100.00	100.00	1	LOT 252 SILVERADO OAKS #7 PH C MOR U-52
480-130-020-000	A	100.00	100.00	1	LOT 313 SILVERADO OAKS #7 PH C MOR U-52
480-110-038-000	A	100.00	100.00	1	LOT 227 SILVERADO OAKS #7 PH C MOR U-52
480-110-003-000	A	100.00	100.00	1	LOT 192 SILVERADO OAKS #7 PH C MOR U-52
480-100-035-000	A	100.00	100.00	1	LOT 152 SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-021-000	A	100.00	100.00	1	LOT 210 SILVERADO OAKS #7 PH C MOR U-52
480-140-001-000	A	100.00	100.00	1	LOT 303 SILVERADO OAKS #7 PH C MOR U-52
480-100-017-000	A	100.00	100.00	1	LOT 137 SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-029-000	A	100.00	100.00	1	LOT 478 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-160-007-000	A	100.00	100.00	1	LOT 438 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-100-078-000	A	100.00	100.00	1	LOT 189A SILVERADO OAKS UNIT NO 7 PH B U-16
480-160-025-000	A	100.00	100.00	1	LOT 492 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-011-000	A	100.00	100.00	1	LOT 31 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-130-019-000	A	100.00	100.00	1	LOT 312 SILVERADO OAKS #7 PH C MOR U-52
480-120-034-000	A	100.00	100.00	1	LOT 284 SILVERADO OAKS #7 PH C MOR U-52
480-100-053-000	A	100.00	100.00	1	LOT 167A SILVERADO OAKS UNIT NO 7 PH B U-16
480-140-018-000	A	100.00	100.00	1	LOT 338 SILVERADO OAKS #7 PH C MOR U-52
480-150-004-000	A	100.00	100.00	1	LOT 453 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-120-016-000	A	100.00	100.00	1	LOT 266 SILVERADO OAKS #7 PH C MOR U-52
480-100-071-000	A	100.00	100.00	1	LOT 182 SILVERADO OAKS UNIT NO 7 PH B U-16
480-130-002-000	A	100.00	100.00	1	LOT 289 SILVERADO OAKS #7 PH C MOR U-52
480-150-022-000	A	100.00	100.00	1	LOT 471 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-160-033-000	A	100.00	100.00	1	LOT 500 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-038-000	A	100.00	100.00	1	LOT 58 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-160-015-000	A	100.00	100.00	1	LOT 446 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-130-030-000	A	100.00	100.00	1	LOT 323 SILVERADO OAKS #7 PH C MOR U-52
480-110-046-000	A	100.00	100.00	1	LOT 242 SILVERADO OAKS #7 PH C MOR U-52
480-110-028-000	A	100.00	100.00	1	LOT 217 SILVERADO OAKS #7 PH C MOR U-52
480-100-027-000	A	100.00	100.00	1	LOT 145 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-003-000	A	100.00	100.00	1	LOT 23 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-170-021-000	A	100.00	100.00	1	LOT 41 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-100-009-000	A	100.00	100.00	1	LOT 130 SILVERADO OAKS UNIT NO 7 PH B U-16
480-120-024-000	A	100.00	100.00	1	LOT 274 SILVERADO OAKS #7 PH C MOR U-52
480-110-011-000	A	100.00	100.00	1	LOT 200 SILVERADO OAKS #7 PH C MOR U-52
480-100-045-000	A	100.00	100.00	1	LOT 160B SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-063-000	A	100.00	100.00	1	LOT 176A SILVERADO OAKS UNIT NO 7 PH B U-16
480-150-014-000	A	100.00	100.00	1	LOT 463 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-140-008-000	A	100.00	100.00	1	LOT 328 SILVERADO OAKS #7 PH C MOR U-52
480-140-026-000	A	100.00	100.00	1	LOT 346 SILVERADO OAKS #7 PH C MOR U-52
480-120-006-000	A	100.00	100.00	1	LOT 233 SILVERADO OAKS #7 PH C MOR U-52
480-100-010-000	A	100.00	100.00	1	LOT 131A SILVERADO OAKS UNIT NO 7 PH B U-16
480-130-012-000	A	100.00	100.00	1	LOT 299 SILVERADO OAKS #7 PH C MOR U-52

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-150-032-000	A	100.00	100.00	1	LOT 481 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-090-048-000	A	100.00	100.00	1	LOT 401 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-150-020-000	A	100.00	100.00	1	LOT 469 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-090-046-000	A	100.00	100.00	1	LOT 399 SILVERADO OAKS UNIT 7 PH F MOR T-82
480-100-033-000	A	100.00	100.00	1	LOT 151A SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-015-000	A	100.00	100.00	1	LOT 135 SILVERADO OAKS UNIT NO 7 PH B U-16
480-160-009-000	A	100.00	100.00	1	LOT 440 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-160-027-000	A	100.00	100.00	1	LOT 494 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-110-041-000	A	100.00	100.00	1	LOT 237 SILVERADO OAKS #7 PH C MOR U-52
480-130-029-000	A	100.00	100.00	1	LOT 322 SILVERADO OAKS #7 PH C MOR U-52
480-170-013-000	A	100.00	100.00	1	LOT 33 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-005-000	A	100.00	100.00	1	LOT 194 SILVERADO OAKS #7 PH C MOR U-52
480-120-001-000	A	100.00	100.00	1	LOT 228 SILVERADO OAKS #7 PH C MOR U-52
480-110-023-000	A	100.00	100.00	1	LOT 212 SILVERADO OAKS #7 PH C MOR U-52
480-100-058-000	A	100.00	100.00	1	LOT 171 SILVERADO OAKS UNIT NO 7 PH B U-16
480-170-031-000	A	100.00	100.00	1	LOT 51 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-150-019-000	A	100.00	100.00	1	LOT 468 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-130-004-000	A	100.00	100.00	1	LOT 291 SILVERADO OAKS #7 PH C MOR U-52
480-110-048-000	A	100.00	100.00	1	LOT 244 SILVERADO OAKS #7 PH C MOR U-52
480-130-022-000	A	100.00	100.00	1	LOT 315 SILVERADO OAKS #7 PH C MOR U-52
480-120-036-000	A	100.00	100.00	1	LOT 286 SILVERADO OAKS #7 PH C MOR U-52
480-160-010-000	A	100.00	100.00	1	LOT 441 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-100-051-000	A	100.00	100.00	1	LOT 165 SILVERADO OAKS UNIT NO 7 PH B U-16
480-140-016-000	A	100.00	100.00	1	LOT 336 SILVERADO OAKS #7 PH C MOR U-52
480-150-002-000	A	100.00	100.00	1	LOT 451 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-120-018-000	A	100.00	100.00	1	LOT 268 SILVERADO OAKS #7 PH C MOR U-52
480-150-030-000	A	100.00	100.00	1	LOT 479 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-100-025-000	A	100.00	100.00	1	LOT 143B SILVERADO OAKS UNIT NO 7 PH B U-16
480-110-031-000	A	100.00	100.00	1	LOT 220 SILVERADO OAKS #7 PH C MOR U-52
480-170-005-000	A	100.00	100.00	1	LOT 25 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-110-013-000	A	100.00	100.00	1	LOT 202 SILVERADO OAKS #7 PH C MOR U-52
480-100-007-000	A	100.00	100.00	1	LOT 128 SILVERADO OAKS UNIT NO 7 PH B U-16
480-160-035-000	A	100.00	100.00	1	LOT 502 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-041-000	A	100.00	100.00	1	LOT 61 SILVERADO OAKS UNIT NO 8 MOR BL V PG 75
480-100-068-000	A	100.00	100.00	1	LOT 179 SILVERADO OAKS UNIT NO 7 PH B U-16
480-160-017-000	A	100.00	100.00	1	LOT 448 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-140-024-000	A	100.00	100.00	1	LOT 344 SILVERADO OAKS #7 PH C MOR U-52
480-120-026-000	A	100.00	100.00	1	LOT 276 SILVERADO OAKS #7 PH C MOR U-52
480-130-032-000	A	100.00	100.00	1	LOT 325 SILVERADO OAKS #7 PH C MOR U-52
480-130-014-000	A	100.00	100.00	1	LOT 301 SILVERADO OAKS #7 PH C MOR U-52
480-100-043-000	A	100.00	100.00	1	LOT 159 SILVERADO OAKS UNIT NO 7 PH B U-16
480-100-061-000	A	100.00	100.00	1	LOT 174 SILVERADO OAKS UNIT NO 7 PH B U-16
480-140-006-000	A	100.00	100.00	1	LOT 308 SILVERADO OAKS #7 PH C MOR U-52
480-150-012-000	A	100.00	100.00	1	LOT 461 SILVERADO OAKS UNIT NO 7 PHASE G V-74
480-170-048-000	A	100.00	100.00	1	LOT 68 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-120-008-000	A	100.00	100.00	1	LOT 258 SILVERADO OAKS #7 PH C MOR U-52
476-440-001-000	A	100.00	100.00	1	LOT 1 SILVERADO OAKS UNIT 9 V-1
476-440-002-000	A	100.00	100.00	1	LOT 2 SILVERADO OAKS UNIT 9 V-1
476-440-003-000	A	100.00	100.00	1	LOT 3 SILVERADO OAKS UNIT 9 V-1
476-440-004-000	A	100.00	100.00	1	LOT 4 SILVERADO OAKS UNIT 9 V-1
476-440-005-000	A	100.00	100.00	1	LOT 5 SILVERADO OAKS UNIT 9 V-1
476-450-011-000	A	100.00	100.00	1	LOT 32 SILVERADO OAKS UNIT 9 V-1
476-450-012-000	A	100.00	100.00	1	LOT 33 SILVERADO OAKS UNIT 9 V-1
476-450-043-000	A	100.00	100.00	1	LOT 64 SILVERADO OAKS UNIT 9 V-1
476-450-044-000	A	100.00	100.00	1	LOT 65 SILVERADO OAKS UNIT 9 V-1
476-450-045-000	A	100.00	100.00	1	LOT 66 SILVERADO OAKS UNIT 9 V-1
476-450-046-000	A	100.00	100.00	1	LOT 67 SILVERADO OAKS UNIT 9 V-1
476-450-047-000	A	100.00	100.00	1	LOT 68 SILVERADO OAKS UNIT 9 V-1
476-450-048-000	A	100.00	100.00	1	LOT 69 SILVERADO OAKS UNIT 9 V-1
476-460-001-000	A	100.00	100.00	1	LOT 1 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-002-000	A	100.00	100.00	1	LOT 2 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-003-000	A	100.00	100.00	1	LOT 3 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-004-000	A	100.00	100.00	1	LOT 4 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-005-000	A	100.00	100.00	1	LOT 5 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-006-000	A	100.00	100.00	1	LOT 6 SILVERADO OAKS UNIT NO 10 MOR V-97

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-460-007-000	A	100.00	100.00	1	LOT 7 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-008-000	A	100.00	100.00	1	LOT 8 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-009-000	A	100.00	100.00	1	LOT 9 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-010-000	A	100.00	100.00	1	LOT 10 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-011-000	A	100.00	100.00	1	LOT 11 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-012-000	A	100.00	100.00	1	LOT 12 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-013-000	A	100.00	100.00	1	LOT 13 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-014-000	A	100.00	100.00	1	LOT 14 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-015-000	A	100.00	100.00	1	LOT 15 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-016-000	A	100.00	100.00	1	LOT 16 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-017-000	A	100.00	100.00	1	LOT 17 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-018-000	A	100.00	100.00	1	LOT 18 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-019-000	A	100.00	100.00	1	LOT 19 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-020-000	A	100.00	100.00	1	LOT 20 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-021-000	A	100.00	100.00	1	LOT 21 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-022-000	A	100.00	100.00	1	LOT 22 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-023-000	A	100.00	100.00	1	LOT 23 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-024-000	A	100.00	100.00	1	LOT 24 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-025-000	A	100.00	100.00	1	LOT 25 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-026-000	A	100.00	100.00	1	LOT 26 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-027-000	A	100.00	100.00	1	LOT 27 SILVERADO OAKS UNIT NO 10 MOR V-97
476-460-028-000	A	100.00	100.00	1	LOT 28 SILVERADO OAKS UNIT NO 10 MOR V-97
476-440-021-000	A	100.00	100.00	1	LOT 21 SILVERADO OAKS UNIT 9 V-1
480-180-001-000	A	100.00	100.00	1	LOT 69 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-002-000	A	100.00	100.00	1	LOT 70 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-003-000	A	100.00	100.00	1	LOT 71 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-004-000	A	100.00	100.00	1	LOT 72 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-005-000	A	100.00	100.00	1	LOT 73 SILVERADO OAKS UNIT #8 MOR V-75
480-180-006-000	A	100.00	100.00	1	LOT 74 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-007-000	A	100.00	100.00	1	LOT 75 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-008-000	A	100.00	100.00	1	LOT 76 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-009-000	A	100.00	100.00	1	LOT 77 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-010-000	A	100.00	100.00	1	LOT 78 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-011-000	A	100.00	100.00	1	LOT 79 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-012-000	A	100.00	100.00	1	LOT 80 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-013-000	A	100.00	100.00	1	LOT 81 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-014-000	A	100.00	100.00	1	LOT 82 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-015-000	A	100.00	100.00	1	LOT 90 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-016-000	A	100.00	100.00	1	LOT 91 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-017-000	A	100.00	100.00	1	LOT 92 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-018-000	A	100.00	100.00	1	LOT 93 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-019-000	A	100.00	100.00	1	LOT 94 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-020-000	A	100.00	100.00	1	LOT 95 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-021-000	A	100.00	100.00	1	LOT 96 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-022-000	A	100.00	100.00	1	LOT 97 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-023-000	A	100.00	100.00	1	LOT 98 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-024-000	A	100.00	100.00	1	LOT 99 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-025-000	A	100.00	100.00	1	LOT 100 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-026-000	A	100.00	100.00	1	LOT 101 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-027-000	A	100.00	100.00	1	LOT 102 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-028-000	A	100.00	100.00	1	LOT 103 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-029-000	A	100.00	100.00	1	LOT 104 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-180-030-000	A	100.00	100.00	1	LOT 105 SILVERADO OAKS UNIT NO 8 MOR BK VN PG 75
480-190-001-000	A	100.00	100.00	1	LOT 1 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-002-000	A	100.00	100.00	1	LOT 2 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-003-000	A	100.00	100.00	1	LOT 3 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-004-000	A	100.00	100.00	1	LOT 4 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-005-000	A	100.00	100.00	1	LOT 5 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-006-000	A	100.00	100.00	1	LOT 6 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-007-000	A	100.00	100.00	1	LOT 7 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-008-000	A	100.00	100.00	1	LOT 8 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-009-000	A	100.00	100.00	1	LOT 9 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-010-000	A	100.00	100.00	1	LOT 10 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-011-000	A	100.00	100.00	1	LOT 11 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-012-000	A	100.00	100.00	1	LOT 12 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
480-190-013-000	A	100.00	100.00	1	LOT 13 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-014-000	A	100.00	100.00	1	LOT 14 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-015-000	A	100.00	100.00	1	LOT 15 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-016-000	A	100.00	100.00	1	LOT 16 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-019-000	A	100.00	100.00	1	LOT 19 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-020-000	A	100.00	100.00	1	LOT 20 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-021-000	A	100.00	100.00	1	LOT 83 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-022-000	A	100.00	100.00	1	LOT 84 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-023-000	A	100.00	100.00	1	LOT 85 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-024-000	A	100.00	100.00	1	LOT 86 SILVERADO OAKS UNIT NO 8 MOR V-75
480-190-025-000	A	100.00	100.00	1	LOT 87 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-026-000	A	100.00	100.00	1	LOT 88 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-027-000	A	100.00	100.00	1	LOT 89 SILVERADO OAKS UNIT NO 8 MOR BK V PG 75
480-190-030-000	A	100.00	100.00	1	POR LOTS 17 & 18 SILVERADO OAKS UNIT NO 8 MOR V-75
480-190-031-000	A	100.00	100.00	1	POR LOTS 17 & 18 SILVERADO OAKS UNIT NO 8 MOR V-75
476-450-013-000	A	100.00	100.00	1	LOT 34 SILVERADO OAKS UNIT 9 V-1
476-450-014-000	A	100.00	100.00	1	LOT 35 SILVERADO OAKS UNIT 9 V-1
476-450-015-000	A	100.00	100.00	1	LOT 36 SILVERADO OAKS UNIT 9 V-1
476-450-016-000	A	100.00	100.00	1	LOT 37 SILVERADO OAKS UNIT 9 V-1
476-450-017-000	A	100.00	100.00	1	LOT 38 SILVERADO OAKS UNIT 9 V-1
476-450-018-000	A	100.00	100.00	1	LOT 39 SILVERADO OAKS UNIT 9 V-1
476-450-019-000	A	100.00	100.00	1	LOT 40 SILVERADO OAKS UNIT 9 V-1
476-450-020-000	A	100.00	100.00	1	LOT 41 SILVERADO OAKS UNIT 9 V-1
476-450-021-000	A	100.00	100.00	1	LOT 42 SILVERADO OAKS UNIT 9 V-1
476-450-022-000	A	100.00	100.00	1	LOT 43 SILVERADO OAKS UNIT 9 V-1
476-450-023-000	A	100.00	100.00	1	LOT 44 SILVERADO OAKS UNIT 9 V-1
476-450-024-000	A	100.00	100.00	1	LOT 45 SILVERADO OAKS UNIT 9 V-1
476-450-025-000	A	100.00	100.00	1	LOT 46 SILVERADO OAKS UNIT 9 V-1
476-450-026-000	A	100.00	100.00	1	LOT 47 SILVERADO OAKS UNIT 9 V-1
476-450-027-000	A	100.00	100.00	1	LOT 48 SILVERADO OAKS UNIT 9 V-1
476-450-028-000	A	100.00	100.00	1	LOT 49 SILVERADO OAKS UNIT 9 V-1
476-450-029-000	A	100.00	100.00	1	LOT 50 SILVERADO OAKS UNIT 9 V-1
476-450-030-000	A	100.00	100.00	1	LOT 51 SILVERADO OAKS UNIT 9 V-1
476-450-031-000	A	100.00	100.00	1	LOT 52 SILVERADO OAKS UNIT 9 V-1
476-450-032-000	A	100.00	100.00	1	LOT 53 SILVERADO OAKS UNIT 9 V-1
476-450-033-000	A	100.00	100.00	1	LOT 54 SILVERADO OAKS UNIT 9 V-1
476-450-034-000	A	100.00	100.00	1	LOT 55 SILVERADO OAKS UNIT 9 V-1
476-450-035-000	A	100.00	100.00	1	LOT 56 SILVERADO OAKS UNIT 9 V-1
476-450-036-000	A	100.00	100.00	1	LOT 57 SILVERADO OAKS UNIT 9 V-1
476-450-037-000	A	100.00	100.00	1	LOT 58 SILVERADO OAKS UNIT 9 V-1
476-450-038-000	A	100.00	100.00	1	LOT 59 SILVERADO OAKS UNIT 9 V-1
476-450-039-000	A	100.00	100.00	1	LOT 60 SILVERADO OAKS UNIT 9 V-1
476-450-040-000	A	100.00	100.00	1	LOT 61 SILVERADO OAKS UNIT 9 V-1
476-450-041-000	A	100.00	100.00	1	LOT 62 SILVERADO OAKS UNIT 9 V-1
476-450-042-000	A	100.00	100.00	1	LOT 63 SILVERADO OAKS UNIT 9 V-1
476-440-006-000	A	100.00	100.00	1	LOT 6 SILVERADO OAKS UNIT 9 V-1
476-440-007-000	A	100.00	100.00	1	LOT 7 SILVERADO OAKS UNIT 9 V-1
476-440-008-000	A	100.00	100.00	1	LOT 8 SILVERADO OAKS UNIT 9 V-1
476-440-009-000	A	100.00	100.00	1	LOT 9 SILVERADO OAKS UNIT 9 V-1
476-440-010-000	A	100.00	100.00	1	LOT 10 SILVERADO OAKS UNIT 9 V-1
476-440-011-000	A	100.00	100.00	1	LOT 11 SILVERADO OAKS UNIT 9 V-1
476-440-012-000	A	100.00	100.00	1	LOT 12 SILVERADO OAKS UNIT 9 V-1
476-440-013-000	A	100.00	100.00	1	LOT 13 SILVERADO OAKS UNIT 9 V-1
476-440-014-000	A	100.00	100.00	1	LOT 14 SILVERADO OAKS UNIT 9 V-1
476-440-015-000	A	100.00	100.00	1	LOT 15 SILVERADO OAKS UNIT 9 V-1
476-440-016-000	A	100.00	100.00	1	LOT 16 SILVERADO OAKS UNIT 9 V-1
476-440-017-000	A	100.00	100.00	1	LOT 17 SILVERADO OAKS UNIT 9 V-1
476-440-018-000	A	100.00	100.00	1	LOT 18 SILVERADO OAKS UNIT 9 V-1
476-440-019-000	A	100.00	100.00	1	LOT 19 SILVERADO OAKS UNIT 9 V-1
476-440-020-000	A	100.00	100.00	1	LOT 20 SILVERADO OAKS UNIT 9 V-1
476-440-022-000	A	100.00	100.00	1	LOT 70 SILVERADO OAKS UNIT 9 V-1
476-440-023-000	A	100.00	100.00	1	LOT 71 SILVERADO OAKS UNIT 9 V-1
476-440-024-000	A	100.00	100.00	1	LOT 72 SILVERADO OAKS UNIT 9 V-1
476-440-025-000	A	100.00	100.00	1	LOT 73 SILVERADO OAKS UNIT 9 V-1
476-440-026-000	A	100.00	100.00	1	LOT 74 SILVERADO OAKS UNIT 9 V-1

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
476-440-027-000	A	100.00	100.00	1	LOT 75 SILVERADO OAKS UNIT 9 V-1
476-440-028-000	A	100.00	100.00	1	LOT 76 SILVERADO OAKS UNIT 9 V-1
476-450-001-000	A	100.00	100.00	1	LOT 22 SILVERADO OAKS UNIT 9 V-1
476-450-002-000	A	100.00	100.00	1	LOT 23 SILVERADO OAKS UNIT 9 V-1
476-450-003-000	A	100.00	100.00	1	LOT 24 SILVERADO OAKS UNIT 9 V-1
476-450-004-000	A	100.00	100.00	1	LOT 25 SILVERADO OAKS UNIT 9 V-1
476-450-005-000	A	100.00	100.00	1	LOT 26 SILVERADO OAKS UNIT 9 V-1
476-450-006-000	A	100.00	100.00	1	LOT 27 SILVERADO OAKS UNIT 9 V-1
476-450-007-000	A	100.00	100.00	1	LOT 28 SILVERADO OAKS UNIT 9 V-1
476-450-008-000	A	100.00	100.00	1	LOT 29 SILVERADO OAKS UNIT 9 V-1
476-450-009-000	A	100.00	100.00	1	LOT 30 SILVERADO OAKS UNIT 9 V-1
476-450-010-000	A	100.00	100.00	1	LOT 31 SILVERADO OAKS UNIT 9 V-1
480-030-033-000	A	100.00	100.00	1	LOT 51 & X SILVERADO OAKS UT #7 PH A T-77
011-270-001-000	A	100.00	100.00	1	LOT 1 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-002-000	A	100.00	100.00	1	LOT 2 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-003-000	A	100.00	100.00	1	LOT 3 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-004-000	A	100.00	100.00	1	LOT 4 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-005-000	A	100.00	100.00	1	LOT 5 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-006-000	A	100.00	100.00	1	LOT 6 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-007-000	A	100.00	100.00	1	LOT 7 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-008-000	A	100.00	100.00	1	LOT 8 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-009-000	A	100.00	100.00	1	LOT 9 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-010-000	A	100.00	100.00	1	LOT 10 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-011-000	A	100.00	100.00	1	LOT 11 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-012-000	A	100.00	100.00	1	LOT 12 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-013-000	A	100.00	100.00	1	LOT 13 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-014-000	A	100.00	100.00	1	LOT 14 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-015-000	A	100.00	100.00	1	LOT 15 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-016-000	A	100.00	100.00	1	LOT 16 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-017-000	A	100.00	100.00	1	LOT 17 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-018-000	A	100.00	100.00	1	LOT 18 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-019-000	A	100.00	100.00	1	LOT 19 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-020-000	A	100.00	100.00	1	LOT 20 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-270-021-000	A	-	-	0	LOT A PUE DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-002-000	A	100.00	100.00	1	LOT 21 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-003-000	A	100.00	100.00	1	LOT 22 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-004-000	A	100.00	100.00	1	LOT 23 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-005-000	A	100.00	100.00	1	LOT 24 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-006-000	A	100.00	100.00	1	LOT 25 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-010-000	A	100.00	100.00	1	LOT 29 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-011-000	A	100.00	100.00	1	LOT 30 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-012-000	A	100.00	100.00	1	LOT 31 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-014-000	A	100.00	100.00	1	LOT 33 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-015-000	A	100.00	100.00	1	LOT 34 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
011-280-016-000	A	100.00	100.00	1	LOT 35 DUNMORE ROSEVILLE PORTER DRIVE MOR AA-16
015-520-001-000	B	147.20	147.20	1	LT 1 LEGACY SUB MOR BK AA PG 71
015-520-002-000	B	147.20	147.20	1	LT 2 LEGACY SUB MOR BK AA PG 71
015-520-003-000	B	147.20	147.20	1	LT 3 LEGACY SUB MOR BK AA PG 71
015-520-004-000	B	147.20	147.20	1	LT 4 LEGACY SUB MOR BK AA PG 71
015-520-005-000	B	147.20	147.20	1	LT 5 LEGACY SUB MOR BK AA PG 71
015-520-006-000	B	147.20	147.20	1	LT 6 LEGACY SUB MOR BK AA PG 71
015-520-007-000	B	147.20	147.20	1	LOT 7 LEGACY SUB MOR BK AA PG 71
015-520-008-000	B	147.20	147.20	1	LOT 8 LEGACY SUB MOR BK AA PG 71
015-520-009-000	B	147.20	147.20	1	LOT 9 LEGACY SUB MOR BK AA PG 71
015-520-010-000	B	147.20	147.20	1	LOT 10 LEGACY SUB MOR BK AA PG 71
015-520-011-000	B	147.20	147.20	1	LOT 11 LEGACY SUB MOR BK AA PG 71
015-520-012-000	B	147.20	147.20	1	LOT 12 LEGACY SUB MOR BK AA PG 71
015-520-013-000	B	147.20	147.20	1	LOT 13 LEGACY SUB MOR BK AA PG 71
015-520-014-000	B	147.20	147.20	1	LOT 14 LEGACY SUB MOR BK AA PG 71
015-520-015-000	B	147.20	147.20	1	LOT 15 LEGACY SUB MOR BK AA PG 71
015-520-016-000	B	147.20	147.20	1	LOT 16 LEGACY SUB MOR BK AA PG 71
015-520-017-000	B	147.20	147.20	1	LOT 17 LEGACY SUB MOR BK AA PG 71
015-520-018-000	B	147.20	147.20	1	LT 18 LEGACY SUB MOR BK AA PG 71
015-520-019-000	B	147.20	147.20	1	LT 19 LEGACY SUB MOR BK AA PG 71
015-520-020-000	B	147.20	147.20	1	LOT 20 LEGACY SUB MOR BK AA PG 71

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ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
015-520-021-000	B	147.20	147.20	1	LOT 21 LEGACY SUB MOR BK AA PG 71
015-520-022-000	B	147.20	147.20	1	LOT 22 LEGACY SUB MOR BK AA PG 71
015-520-023-000	B	147.20	147.20	1	LOT 23 LEGACY SUB MOR BK AA PG 71
015-520-024-000	B	147.20	147.20	1	LOT 24 LEGACY SUB MOR BK AA PG 71
015-520-025-000	B	147.20	147.20	1	LOT 25 LEGACY SUB MOR BK AA PG 71
015-520-026-000	B	147.20	147.20	1	LOT 26 LEGACY SUB MOR BK AA PG 71
015-520-027-000	B	147.20	147.20	1	LOT 27 LEGACY SUB MOR BK AA PG 71
015-520-028-000	B	147.20	147.20	1	LOT 28 LEGACY SUB MOR BK AA PG 71
015-520-029-000	B	147.20	147.20	1	LOT 29 LEGACY SUB MOR BK AA PG 71
015-520-030-000	B	147.20	147.20	1	LOT 30 LEGACY SUB MOR BK AA PG 71
015-520-031-000	B	147.20	147.20	1	LOT 31 LEGACY SUB MOR BK AA PG 71
015-520-032-000	B	147.20	147.20	1	LOT 32 LEGACY SUB MOR BK AA PG 71
015-520-033-000	B	147.20	147.20	1	LOT 33 LEGACY SUB MOR BK AA PG 71
015-520-034-000	B	147.20	147.20	1	LOT 34 LEGACY SUB MOR BK AA PG 71
015-520-035-000	B	147.20	147.20	1	LOT 35 LEGACY SUB MOR BK AA PG 71
015-520-036-000	B	147.20	147.20	1	LOT 36 LEGACY SUB MOR BK AA PG 71
015-520-037-000	B	147.20	147.20	1	LOT 37 LEGACY SUB MOR BK AA PG 71
015-520-038-000	B	147.20	147.20	1	LOT 38 LEGACY SUB MOR BK AA PG 71
015-520-039-000	B	147.20	147.20	1	LOT 39 LEGACY SUB MOR BK AA PG 71
015-520-040-000	B	147.20	147.20	1	LOT 40 LEGACY SUB MOR BK AA PG 71
015-520-041-000	B	147.20	147.20	1	LOT 41 LEGACY SUB MOR BK AA PG 71
015-520-042-000	B	147.20	147.20	1	LOT 42 LEGACY SUB MOR BK AA PG 71
015-520-043-000	B	147.20	147.20	1	LOT 43 LEGACY SUB MOR BK AA PG 71
015-520-044-000	B	147.20	147.20	1	LOT 44 LEGACY SUB MOR BK AA PG 71
015-520-045-000	B	147.20	147.20	1	LOT 45 LEGACY SUB MOR BK AA PG 71
015-520-046-000	B	147.20	147.20	1	LOT 46 LEGACY SUB MOR BK AA PG 71
015-520-047-000	B	147.20	147.20	1	LOT 47 LEGACY SUB MOR BK AA PG 71
015-520-048-000	B	147.20	147.20	1	LOT 48 LEGACY SUB MOR BK AA PG 71
015-520-049-000	B	147.20	147.20	1	LOT 49 LEGACY SUB MOR BK AA PG 71
015-520-050-000	B	147.20	147.20	1	LOT 50 LEGACY SUB MOR BK AA PG 71
015-520-051-000	B	147.20	147.20	1	LOT 51 LEGACY SUB MOR BK AA PG 71
015-520-052-000	B	147.20	147.20	1	LOT 52 LEGACY SUB MOR BK AA PG 71
015-520-053-000	B	147.20	147.20	1	LOT 53 LEGACY SUB MOR BK AA PG 71
015-520-054-000	B	147.20	147.20	1	LOT 54 LEGACY SUB MOR BK AA PG 71
015-520-055-000	B	147.20	147.20	1	LOT 55 LEGACY SUB MOR BK AA PG 71
015-520-056-000	B	147.20	147.20	1	LOT 56 LEGACY SUB MOR BK AA PG 71
015-520-057-000	B	147.20	147.20	1	LOT 57 LEGACY SUB MOR BK AA PG 71
015-520-058-000	B	147.20	147.20	1	LOT 58 LEGACY SUB MOR BK AA PG 71
015-520-059-000	B	147.20	147.20	1	LOT 59 LEGACY SUB MOR BK AA PG 71
015-520-060-000	B	147.20	147.20	1	LOT 60 LEGACY SUB MOR BK AA PG 71
015-520-061-000	B	147.20	147.20	1	LOT 61 LEGACY SUB MOR BK AA PG 71
015-520-062-000	B	147.20	147.20	1	LOT 62 LEGACY SUB MOR BK AA PG 71
015-520-063-000	B	147.20	147.20	1	LOT 63 LEGACY SUB MOR BK AA PG 71
015-520-064-000	B	147.20	147.20	1	LOT 64 LEGACY SUB MOR BK AA PG 71
015-520-065-000	B	147.20	147.20	1	LOT 65 LEGACY SUB MOR BK AA PG 71
015-520-066-000	B	147.20	147.20	1	LOT 66 LEGACY SUB MOR BK AA PG 71
015-520-067-000	B	147.20	147.20	1	LOT 67 LEGACY SUB MOR BK AA PG 71
015-520-068-000	B	147.20	147.20	1	LOT 68 LEGACY SUB MOR BK AA PG 71
015-520-069-000	B	147.20	147.20	1	LOT 69 LEGACY SUB MOR BK AA PG 71
015-520-070-000	B	147.20	147.20	1	LOT 70 LEGACY SUB MOR BK AA PG 71
015-520-071-000	B	147.20	147.20	1	LOT 71 LEGACY SUB MOR BK AA PG 71
015-520-074-000	B	-	-	0	LOT C PUE - LEGACY SUB MOR BK AA PG 71
015-520-072-000	B	-	-	0	LOT A PUE - LEGACY SUB MOR BK AA PG 71
015-520-076-000	B	-	-	0	LOT E PUE - LEGACY SUB MOR BK AA PG 71
015-520-075-000	B	-	-	0	LOT D PUE - LEGACY SUB MOR BK AA PG 71
015-520-073-000	B	-	-	0	LOT B PUE - LEGACY SUB MOR BK AA PG 71
015-520-077-000	B	-	-	0	LOT F OPEN SPACE - LEGACY SUB MOR BK AA PG 71
011-280-017-000	A	100.00	100.00	1	POR LOT 26 DUNMORE ROSEVILLE PORTER DR AA-16
011-280-019-000	A	100.00	100.00	1	POR LOT 27 DUNMORE ROSEVILLE PORTER DR AA-16
011-280-024-000	A	100.00	100.00	1	POR LOT 28 DUNMORE ROSEVILLE PORTER DRIVE MORAA-16
011-280-026-000	A	100.00	100.00	1	POR LOT 28 & 32 DUNMORE ROSEVILLE PORTER DR AA-16
475-090-001-000	A	100.00	100.00	1	L 1 PARKLAND ESTATES Q-88
475-090-002-000	A	100.00	100.00	1	L 2 PARKLAND ESTATES Q-88
475-090-003-000	A	100.00	100.00	1	L 3 PARKLAND ESTATES Q-88
475-090-004-000	A	100.00	100.00	1	L 4 PARKLAND ESTATES Q-88

City of Roseville
Northwest Roseville Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ZONE	CHARGE	MAXIMUM ASSESSMENT	NO. OF UNITS	LEGAL DESCRIPTION
475-090-005-000	A	100.00	100.00	1	L 5 PARKLAND ESTATES Q-88
475-090-006-000	A	100.00	100.00	1	L 6 PARKLAND ESTATES Q-88
475-090-007-000	A	100.00	100.00	1	L 7 PARKLAND ESTATES Q-88
475-090-008-000	A	100.00	100.00	1	L 8 PARKLAND ESTATES Q-88
475-090-009-000	A	100.00	100.00	1	L 9 PARKLAND ESTATES Q-88
475-090-010-000	A	100.00	100.00	1	L10 PARKLAND ESTATES Q-88
475-090-011-000	A	100.00	100.00	1	L11 PARKLAND ESTATES Q-88
475-090-012-000	A	100.00	100.00	1	L65 PARKLAND ESTATES Q-88
475-090-013-000	A	100.00	100.00	1	L66 PARKLAND ESTATES Q-88
475-090-014-000	A	100.00	100.00	1	L67 PARKLAND ESTATES Q-88
475-090-015-000	A	100.00	100.00	1	L68 PARKLAND ESTATES Q-88
475-090-016-000	A	100.00	100.00	1	L69 PARKLAND ESTATES Q-88
475-090-017-000	A	100.00	100.00	1	L70 PARKLAND ESTATES Q-88
475-090-018-000	A	100.00	100.00	1	L71 PARKLAND ESTATES Q-88

Summary Fields	Value
ACTIVE PARCELS	4,759
LEVIED PARCELS	4,752
CHARGE	481,336.00
MAXIMUM ASSESSMENT	481,336.00

RESOLUTION NO. 20-156

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Olympus Pointe Landscaping and Lighting District (hereafter referred to as the “District”) pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”), that provides for levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of street lighting, landscaping, and all appurtenant facilities and operations related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter “Engineer”) for the purpose of assisting with the establishment of the assessments, the annexation of territory, and to prepare and file an Engineer’s Annual Levy Report (hereinafter referred to as the “Engineer’s Report”) with the City Clerk in accordance with the act, and in accordance with the California Constitution, Articles XIII C and XIII D;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 Engineer’s Report: The City Council hereby orders Willdan Financial Services to prepare the Engineer’s Report concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22622* of the Act.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: project identification signs and surrounding landscape and hardscape, special street materials, sculpture and sculpture park, special lighting for the project identification signs, sculpture and sculpture park, landscape street medians, special street signs, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

RESOLUTION NO. 20-156

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____was regularly adopted by the City Council of said City of Roseville at a regular meeting of said council held on the _____ day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-157

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Olympus Pointe Landscaping and Lighting District (hereafter referred to as the “District”), and initiated proceedings for Fiscal Year 2020/2021, pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”) that provides for the levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of all improvements and facilities related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services for the purpose of assisting with the Annual Levy of the District, and to prepare and file an Engineer’s Annual Levy Report (hereinafter referred to as the “Engineer’s Report”) with the City Clerk in accordance with the Act; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, PURSUANT TO CHAPTER 3, SECTION 22624 OF THE ACT, AS FOLLOWS:

Section 1 Intention: The City Council hereby declares that it is its intention to seek the Annual Levy of the District pursuant to the Act, over and including the land within the District boundary, and to levy and collect assessments on all such land to pay the annual costs of the improvements.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: project identification signs and surrounding landscape and hardscape, special street materials, sculpture and sculpture park, special lighting for the project identification signs, sculpture and sculpture park, landscape street medians, special street signs, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

Section 3 **Boundaries and Designation:** The boundaries of the District are described as the boundaries previously defined in the formation documents of the original District. The District includes the parcels generally within the area known as the Northeast Roseville Specific Plan. The District is known and designated as the:

“Olympus Pointe Landscaping and Lighting District”

Section 4 **Proposed Assessment Amounts:** The proposed assessments are outlined in the Engineer’s Annual Levy Report. District Assessments are calculated in accordance with the method of apportionment established for the District and do not exceed the assessment rates and annual inflationary adjustment previously authorized by City Council and approved by the property owners in accordance with the provisions of the California State Constitution, Article XIID.

Section 5 **Public Hearing(s):** The City Council hereby declares its intention to conduct a Public Hearing annually concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22626* of the Act.

Section 6 **Notice:** The City Clerk shall give notice of the time and place of the Public Hearing by causing the publishing of this Resolution once in the local newspaper not less than ten (10) days before the date of the hearing and by posting a copy of this Resolution on the official bulletin board customarily used by the City Council for the posting of notices.

Section 7 **Time and Place of Public Hearing:** Notice is hereby given that a Public Hearing on these matters will be held by the City Council on **Wednesday, May 20, 2020 at 6:00 p.m.** or as soon thereafter as feasible in the regular meeting chambers located at 311 Vernon Street, Roseville, California.

RESOLUTION NO. 20-157

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____was regularly adopted by the City Council of said City of Roseville at a regular meeting of said council held on the _____ day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-158

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the "City Council") does resolve as follows:

WHEREAS, the City Council has, by previous Resolutions, ordered the preparation of an Engineer's Annual Levy Report (hereafter referred to as the "Engineer's Report") for the district known and designated as the Olympus Pointe Landscaping and Lighting District (hereafter referred to as the "District"), pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereinafter referred to as the "Act"); and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter "Engineer"), for the purpose of assisting with the establishment of the assessments and to prepare and file an Engineer's Report with the City Clerk in accordance with the Act, and in accordance with the requirements of the California Constitution, Articles XIII C and XIII D; and,

WHEREAS, there has now been presented to this City Council the Engineer's Report as required by *Chapter 1, Article 4, Section 22566* of said Act; and,

WHEREAS, this City Council has carefully examined and reviewed the Engineer's Report as presented, and is preliminarily satisfied with the District, each and all of the budget items and documents as set forth therein, and is satisfied that the assessments, on a preliminary basis, have been spread in accordance with the benefits received from the improvements, operation, maintenance and services to be performed within each Zone, as set forth in said Report; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 That the above recitals are all true and correct.

Section 2 That the Engineer's Report as presented, consists of the following:

- a. A Description of Improvements
- b. The Annual Budget (Costs and Expenses of Maintenance, Services, Operations and District Administration)
- c. The Assessment Roll containing the Fiscal Year 2020/2021 Levy for each Assessor Parcel within the District

Section 3 The Engineer's Report is hereby approved on a preliminary basis, and ordered to be filed in the Office of the City Clerk as a permanent record and to remain open to public inspection.

Section 4 That the City Clerk shall certify to the passage and adoption of this Resolution, and the minutes of this meeting shall so reflect the presentation of the Engineer's Report.

RESOLUTION NO. 20-158

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2019.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____was regularly adopted by the City Council of said City of Roseville at a regular meeting of said council held on the _____ day of_____, 2019, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville



City of Roseville

Olympus Pointe Landscaping and Lighting District

2020/21 ENGINEER'S ANNUAL LEVY REPORT

Intent Meeting: May 6, 2020
Public Hearing: May 20, 2020

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Suite 200
Temecula, CA 92590
51.587.3500 | 800.755.6864
F 951.587.3510

www.willdan.com



ENGINEER'S REPORT AFFIDAVIT

Establishment of Annual Rates and Charges for the:

Olympus Pointe
Landscaping and Lighting District

City of Roseville
Placer County, State of California

This Report describes the District and any relevant zones therein, including the improvements, budgets, parcels and assessments to be levied for Fiscal Year 2020/21 as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Placer County Assessor's maps for a detailed description of the lines and dimensions of parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the City Council.

Dated this 15th day of APRIL, 2020

Willdan Financial Services
Assessment Engineer
On Behalf of the City of Roseville

By: Mickey Ashley
Mickey Ashley
Senior Project Analyst
District Administration Services

By: Richard Kopecky
Richard Kopecky
R. C. E. # 16742



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I. OVERVIEW

A. INTRODUCTION

The City of Roseville (“City”) annually levies and collects special assessments in order to maintain the certain public improvements within the Olympus Pointe Landscaping and Lighting District (“District”) within the City. The District, which was formed in 1989, is levied annual assessments pursuant to the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the California Streets and Highways Code (the “Act”).

The Engineer’s Report (“Report”) describes the District boundaries, any new annexations, improvements maintained by the District and the proposed assessments for the period of July 1, 2020 through June 30, 2021.

The District consists of two (2) benefit Zones (“Zones”). The improvements that benefit properties within each Zone and the costs associated with those improvements are identified and budgeted separately. Each parcel within a Zone is assessed proportionately for only those improvements and services that are a direct and special benefit to the properties within the respective Zone. The assessments are based on the historical and estimated cost to maintain the improvements that provide a direct and special benefit to properties within the District.

The word “parcel,” for the purposes of this Report, refers to an individual property assigned its own Assessor’s Parcel Number (“APN”) by the Placer County Assessor’s Office.

Following approval of the Report, the City Council will by resolution, order the improvements to be made, if any, and confirm the levy and collection of assessments herein pursuant to the Act. The assessment rates and method of apportionment described in this Report as approved or modified by the City Council defines the assessments to be applied to each parcel within the District and respective Zones for Fiscal Year (“FY”) 2020/21. The assessments as approved will be submitted to the Placer County Auditor/Controller to be included on the property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved by the City Council.

B. COMPLIANCE WITH CURRENT LEGISLATION

All assessments described in this Report and approved by the City Council are prepared in accordance with the Act and are in compliance with the substantive and procedural requirements of the California State Constitution Articles XIIC and XIID (“Article XIIC” and “Article XIID”) and the provisions of the Proposition 218 Omnibus Implementation Act [Government Code Section 53750 and following] (the “Implementation Act”). Articles XIIC and XIID and the Implementation Act collectively are hereinafter referred to as “Proposition 218”.

The District’s Maximum Assessment Rates for all Zones and the Inflationary Adjustment Factor were previously approved and confirmed through property owner ballot proceedings and as such, comply with the provisions of Proposition 218.

Pursuant to the Act, an annual Public Hearing is conducted by the City Council to accept property owner and public comments, to review the Engineer’s Annual Levy Report prior to approving the annual assessments to be levied on the County tax rolls.

C. CLARIFICATION OF ZONE DESIGNATIONS

In order to increase consistency with the City’s other districts and to facilitate presentation within the Engineer’s Report, the names of both Zones were redesignated, commencing with FY 2007/2008, as follows:

- The “Non-Residential/Multi-Family Residential Zone” was redesignated to “Zone A”. ⁽¹⁾
- The “Residential Zone” was redesignated to “Zone D”. ⁽²⁾

(1) Prior to FY 2005/2006, this territory was known as “Zone A”. In FY 2005/2006, Zone A was redesignated to the “Non-Residential/Multi-Family Residential Zone”.

(2) Prior to FY 2005/2006, this territory was known as “Zones B & C”. In FY 2005/2006, Zones B & C were combined and redesignated to the “Residential Zone”.

D. GENERAL DESCRIPTION OF DISTRICT

The Olympus Pointe Landscaping and Lighting District is located in the City of Roseville at the southerly edge of Placer County, northeast of the intersection of Interstate 80 and Douglas Boulevard. The site is generally bounded by Interstate 80 on the west, East Roseville Parkway and Olympus Drive to the north, Douglas Boulevard to the south and Sierra College Boulevard to the east. See Appendix A for a rendering of the District boundary map.

The District consists of two zones as described below. These zones were established by the City through a District reengineering commencing with the FY 2005/2006 levy. Additional information regarding the reengineering is provided in Section III of the Report.

Zone A

Zone A includes land zoned for non-residential and multi-family residential uses. The Zone comprises the majority of the District and is primarily west and south of East Roseville Parkway, east of Interstate 80 north of Douglas Boulevard. This Zone contains 581.78 acres of assessable land that was originally designated as “Zone A”. The area was then redesignated as the “Non-Residential/Multi-Family Zone” commencing with the FY 2005/06 and then redesignated back to “Zone A” commencing with the FY 2007/08 levy.

Zone D

Zone D includes two single-family residential developments on the eastern side of the District. The Zone is bisected by Olympus Drive and Sierra College Boulevard on the District’s eastern boundary and includes 468 developed single-family residences. Originally, each residential development was designated as separate zone (Zones B and C). The area was redesignated as the “Residential Zone” commencing with the FY 2005/2006 levy and then redesignated to the “Zone D” commencing with the FY 2007/2008 levy.

E. IMPROVEMENTS AUTHORIZED BY THE 1972 ACT

As applicable or may be applicable to a proposed District, the 1972 Act defines improvements to mean one or any combination of the following:

- The installation or planting of landscaping.
- The installation or construction of statuary, fountains, and other ornamental structures and facilities.
- The installation or construction of public lighting facilities.

- The installation or construction of any facilities which are appurtenant to any of the foregoing or which are necessary or convenient for the maintenance or servicing thereof, including, but not limited to, grading, clearing, removal of debris, the installation or construction of curbs, gutters, walls, sidewalks, or paving, or water, irrigation, drainage, or electrical facilities.
- The maintenance or servicing, or both, of any of the foregoing.
- The acquisition of any existing improvement otherwise authorized pursuant to this section.

Incidental expenses associated with the improvements including, but not limited to:

- The cost of preparation of the report, including plans, specifications, estimates, diagram, and assessment;
- The costs of printing, advertising, and the publishing, posting and mailing of notices;
- Compensation payable to the County for collection of assessments;
- Compensation of any engineer or attorney employed to render services;
- Any other expenses incidental to the construction, installation, or maintenance and servicing of the improvements;
- Any expenses incidental to the issuance of bonds or notes pursuant to Section 22662.5.
- Costs associated with any elections held for the approval of a new or increased assessment.

The 1972 Act defines "Maintain" or "maintenance" to mean furnishing of services and materials for the ordinary and usual maintenance, operation, and servicing of any improvement, including:

- Repair, removal, or replacement of all or any part of any improvement.
- Providing for the life, growth, health, and beauty of landscaping, including cultivation, irrigation, trimming, spraying, fertilizing, or treating for disease or injury.
- The removal of trimmings, rubbish, debris, and other solid waste.
- The cleaning, sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Furthermore, the 1972 Act specifies that where the cost of improvements (other than maintenance and operations) is greater than can be conveniently raised from a single annual assessment, an assessment to be levied and collected in annual installments. In that event, the governing body may choose to do any of the following:

- Provide for the accumulation of the moneys in an improvement fund until there are sufficient moneys to pay all or part of the cost of the improvements.

- Provide for a temporary advance to the improvement fund from any available and unencumbered funds of the local agency to pay all or part of the cost of the improvements and collect those advanced moneys from the annual installments collected through the assessments.
- Borrow an amount necessary to finance the estimated cost of the proposed improvements. The amount borrowed, including amounts for bonds issued to finance the estimated cost of the proposed improvements.

F. DESCRIPTION AND LOCATION OF IMPROVEMENTS

This District, through the levy special assessments, provides funding for the maintenance and operation of the following improvements located within the public rights-of-way and dedicated easements: project identification signs, including surrounding landscape and hardscape; special street materials; sculptures and sculpture park; special street signs; special lighting for the project identification signs and special illuminated street signs; and landscaped street medians (the “Improvements”). The specific locations of the improvements within the district are described as follows:

1. Zone A

a. Landscaped Median Islands:

- Eureka Road from Douglas Boulevard to Taylor Road Connector
- Sunrise Avenue from southern boundary of the Northeast Roseville Specific Plan (the “NERSP”) to East Roseville Parkway
- East Roseville Parkway from Douglas Boulevard to Rocky Ridge Drive
- Douglas Boulevard from eastern boundary of NERSP to Rocky Ridge Drive

b. Project identification signs (granite entryways) and special paving materials:

- Eureka Road at Douglas Boulevard
- East Roseville Parkway at Douglas Boulevard
- Eureka Road at Taylor Road

c. Sculpture and Sculpture Park:

- Aris Demetrio’s original sculpture located on Parcel 14
- Sculpture park (0.85 acres located on Parcel 14)

d. Special street signs:

- Eureka Road at Sunrise Avenue, Rocky Ridge Drive, Lead Hill Drive and Douglas Boulevard
- Lead Hill Drive at Rocky Ridge Drive

- Sunrise Avenue at Auto Mall entrance
- East Roseville Parkway at Taylor Road, Lead Hill Drive, Olympus Drive and Douglas Boulevard
- Olympus Drive at Sierra College Boulevard:

2. Zone D

a. Landscaped Frontage:

- Southern side of Olympus Drive from East Roseville Parkway to Sierra College Boulevard, excluding any landscaping not within or adjacent to the Zone
- Northern side of Olympus Drive from the Zone boundary (the former Zone C boundary), which is 175 feet southwest of Corniche Lane, to Sierra College Boulevard, western side of Sierra College Boulevard from Olympus Drive to the Zone boundary (the former Zone C boundary), which is approximately 600 feet.

b. Project identification signs and special paving materials:

- Sierra College Boulevard at Olympus Drive

G. DESCRIPTION OF MAINTENANCE AND SERVICES

Maintenance means the furnishing of services and materials for the ordinary and usual maintenance, operation and servicing of the Improvements and appurtenant facilities, including repair, removal or replacement of all or part of any of Improvements or appurtenant facilities; providing for the life, growth, health and beauty of the Improvements including cultivation, irrigation, trimming, mowing, spraying, fertilizing and treating for disease or injury; the removal of trimmings, rubbish, debris and other solid waste.

Servicing means the furnishing of water and electricity for the Improvements including any decorative lighting and the furnishing of electric current or energy, gas or other illuminating agent for the special street signs.

II. METHOD OF APPORTIONMENT

A. GENERAL

The Act permits the establishment of assessment districts by public agencies for the purpose of providing certain public improvements, which include the construction, maintenance, and servicing of street lights, traffic signals and landscaping facilities. Streets and Highways Code Section 22573 requires that maintenance assessments be levied according to benefit rather than the assessed value.

“The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements.”

In addition, Article XIID and the Implementation Act require that a parcel’s assessment may not exceed the reasonable cost for the proportional special benefit conferred to that parcel. Article XIID and the Implementation Act further provide that only special benefits are assessable and the City must separate the general benefits from the special benefits. They also require that publicly owned properties, which specifically benefit from the improvements, be assessed.

B. BENEFIT ANALYSIS

In conjunction with the provisions of the 1972 Act, the California Constitution Article XIID addresses several key criteria for the levy of assessments, notably:

Article XIID Section 2d defines District as follows:

“District means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service”;

Article XIID Section 2i defines Special Benefit as follows:

“Special benefit” means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute “special benefit.”

Article XIID Section 4a defines proportional special benefit assessments as follows:

“An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.”

The City initiated and conducted property owner protest ballot proceedings in accordance with Article XIID and the Implementation Act for both the Non-Residential/Multi-Family Zone (Zone A) and the Residential Zone (Zone D). Each Zone’s Improvements, the associated costs and assessments had been reviewed, identified and allocated based on special benefit pursuant to the provisions of the Constitution and Act.

All Improvements associated with these Zones have been identified as necessary, required and/or desired for the orderly development of the properties to their full potential. As such, these Improvements would be necessary and required of individual property owners for the development of such properties and the ongoing operation, servicing and maintenance of these Improvements would be the financial obligation of those properties. Therefore, the Improvements and the annual costs of ensuring the maintenance and operation of the Improvements are of direct and special benefit to the properties.

The method of apportionment (method of assessment) is based on the premise that each of the assessed parcels within these Zones receives special benefit from the Improvements maintained and financed by the assessments. Specifically, the assessments associated with the Zones are for the maintenance of the Improvements installed as part of the original development of the parcels within the Zones. The desirability and security of properties within each Zone is enhanced by the close proximity of these amenities to those properties.

The annual assessments outlined in this Report are proposed to cover the estimated costs to provide all necessary service, operation, administration, and maintenance required to keep the Zone Improvements in a healthy, vigorous, and satisfactory condition.

The special benefits associated with these improvements are specifically:

- Enhanced desirability of properties through association with the improvements.
- Improved aesthetic appeal of properties within the Zones providing a positive representation of the area.
- Enhanced adaptation of the urban environment within the natural environment from adequate green space and landscaping.

- Environmental enhancement through improved erosion resistance, and dust and debris control.
- Increased sense of pride in ownership of property within the District resulting from well-maintained improvements associated with the properties.
- Reduced criminal activity and property-related crimes (especially vandalism) against properties in the District through well-maintained surroundings and amenities including abatement of graffiti.
- Enhanced environmental quality of the parcels within the Zones by moderating temperatures, providing oxygenation and attenuating noise.

All of the preceding special benefits allowed the property to be developed for the enjoyment of the property owners and contribute to an ongoing specific enhancement and desirability of each of the assessed parcels within the Zones.

The improvements are for the special benefit, enhancement and use of properties within the Zones. Although the improvements include public easements, rights-of-way, streets and other amenities available or visible to the public at large, the construction and installation of these Improvements were only necessary for the development of properties within the Zones and were not required nor necessarily desired by any properties or developments outside the Zone's boundaries. Therefore, any public access or use of the Improvements by others is incidental and there is no measurable general benefit to properties outside the Zones or to the public at large. In making this determination, it should be noted that all parkway and perimeter landscaping within the City is both funded and maintained by a special district, individual property owners or through some type of association.

C. ASSESSMENT METHODOLOGY

To establish the special benefit to the individual lots and parcels within the District an Equivalent Benefit Unit ("EBU") system is used. The EBU method of apportioning benefit is typically seen as the most appropriate and equitable assessment methodology for districts formed under the Act, as the benefit to each parcel from the Improvements are apportioned as a function of land use type, size and development. Acreage of common area parcels shall be apportioned to the remaining assessable parcels of a subdivision and/or parcel split(s) related to the creation of the common area parcel(s).

EBU Application Table

Land Use	EBU per Unit/Acre
Single Family Residential	1.00 per Unit
Multi-Family Residential	1.00 per Acre
Non-Residential	1.00 per Acre
Exempt	0.00 per Acre

1. Definitions and Formulas Related to the Product Type EBU Method

Single-Family Residential — This land use is defined as a fully subdivided residential parcel that is part of a final tract map.

Multi-Family Residential — This land use is defined as a residential parcel anticipated to have or has more than one residential unit.

Non-Residential — Parcels that are not considered Single Family Residential, Multi-Family Residential or Exempt.

Exempt Parcels — This land use identifies properties that are not assessed and are assigned 0.0 EBU per acre. This land use classification may include, but is not limited, to lots or parcels identified as public streets and other roadways (typically not assigned an APN by the County); dedicated public easements, open space areas, greenbelts, parkways, park properties and other publicly owned properties that are part of the District Improvements. These types of parcels are considered to receive little or no benefit from the Improvements and are therefore exempted from assessment.

2. Zone Benefit Formula

The benefit formula applied to parcels within each Zone is based on the preceding Equivalent Benefit Unit (EBU) Application Table. Each parcel's EBU correlates the parcel's special benefit received as compared to all other parcels benefiting from the Improvements.

The following formula is used to calculate the EBU for each parcel (proportional benefit).

$$\text{Parcel Type EBU} \times \text{Units/Acres} = \text{Parcel EBU}$$

The total number of Equivalent Benefit Units (EBUs) is the sum of all individual EBUs applied to parcels within each Zone that receive a special benefit from the

Improvements. An assessment amount per EBU (Assessment Rate) for each Zone is established by taking the total costs associated with the Zone's Improvements and dividing that amount by the total number of EBUs within each Zone of all parcels benefiting from those Improvements. This Rate is then applied back to each individual parcel based on their assigned EBUs to determine the parcel's proportionate special benefit and assessment obligation from those Improvements.

$$\text{Zone Budget/ Total EBU} = \text{Assessment per EBU}$$

$$\text{Assessment per EBU} \times \text{Parcel EBU} = \text{Maximum Parcel Assessment Amount}$$

D. ASSESSMENT RANGE FORMULA

The purpose of establishing an Assessment Range Formula is to provide for reasonable increases and inflationary adjustment to annual assessments rather than initiating protest ballot proceedings to approve small increases in annual costs. This District provides for an annual adjustment to the Maximum Assessment Rate in an amount equal to three percent (3%).

The Maximum Assessment Rate is adjusted annually and is calculated independent of the District's annual budget and proposed annual assessment. Any proposed annual assessment rate (less than or equal to this Maximum Assessment Rate) is not considered an increased assessment, even if the proposed assessment is greater than the assessment applied in the prior fiscal year.

Although the Maximum Assessment Rate will increase each year, the actual assessment rate may go up and down as compared to the previous year(s). The Maximum Assessment Rate adjustment is designed to allow for the adjustment of the annual assessment for inflation in order to maintain the original purchasing power of the District budget. The Maximum Assessment Rate calculated each year does not require or facilitate an increase to the annual assessment and neither does it restrict assessments to the adjusted maximum amount. If the budget and assessment for the fiscal year do not require an increase, or the increase is less than the adjusted Maximum Assessment Rate, then the required budget and assessment may be applied without additional property owner balloting. If the budget and assessments calculated requires an increase greater than the adjusted Maximum Assessment Rate, then the assessment is considered an increased assessment and would be subject to Proposition 218 balloting requirements.

E. BASE MAXIMUM ASSESSMENT RATES

The base assessment rates and the annual inflationary adjustment to each Zone are listed in the table below:

Zone	Base Year	Base Year Maximum Assessment Rate per EBU	Annual Inflationary Adjustment ⁽¹⁾
Zone A	FY 2005/06	\$296.65	3.00%
Zone D	FY 2005/06	\$99.76	3.00%

(1) The Annual Inflationary Adjustment commences with the Fiscal Year 2006/2007 assessments.

III. DISTRICT BUDGET

A. 2020/21 BUDGET

DESCRIPTION	ZONE A Fund 2006	ZONE D Fund 2007
<u>DIRECT COSTS</u>		
Contract Maintenance - Landscaping	\$23,287.00	\$30,900.00
Contract Maintenance - Parks	4,771.00	n/a
Repair & Maintenance - Landscaping/Parks	30,000.00	13,000.00
Utilities	36,000.00	21,000.00
Maintenance - Parks City Staff	12,881.00	0.00
Rehab Reserve Project Expenditures	<u>34,680.00</u>	<u>8,610.00</u>
Total Direct Costs	\$141,619.00	\$73,510.00
<u>ADMINISTRATION COSTS</u>		
City Administration	\$3,352.00	\$408.00
Contract Administration - Park's Dept	13,000.00	3,000.00
County Auditor Fees	1,295.11	696.57
Consulting & Professional Services	4,003.00	487.00
Consultant Incidental Expenses	102.04	52.96
Public Hearing Publishing Costs	<u>820.00</u>	<u>110.00</u>
Total Administrative Costs	\$22,572.15	\$4,754.53
Total Direct and Administration Costs	\$164,191.15	\$78,264.53
<u>BUDGET ADJUSTMENTS ⁽¹⁾</u>		
Replenishment/(Use) of Operating Reserve	\$0.00	\$0.00
Contribution for /(Use of) Rehab Reserve	(34,680.00)	(8,610.00)
Rounding Adjustment	<u>(5.13)</u>	<u>2.59</u>
Total Adjustments	(\$34,685.13)	(\$8,607.41)
BALANCE TO LEVY	\$129,506.02	\$69,657.12

(1) Table C. 2020/21 FUND BALANCE INFORMATION provides additional budget information.

B. 2020/21 ASSESSMENT RATES

DESCRIPTION	ZONE A Fund 2006	ZONE D Fund 2007
<u>FY 2020/21 ASSESSMENT RATES</u>		
Total Assessable Acreage	530.8045	n/a
Total Assessable Units	<u>186</u>	<u>468</u>
Total Equivalent Benefit Units (EBUs)	716.8045	468
Assessment Rates per Equivalent Benefit Unit (EBU)		
Applied Assessment Rates per EBU	\$180.6713	\$148.8400
Maximum Assessment Rates per EBU	\$462.1710	\$155.4228
Potential Maximum Assessment Per Zone	\$331,286.25	\$72,737.87

C. 2020/21 FUND BALANCE INFORMATION

DESCRIPTION	ZONE A Fund 2006	ZONE D Fund 2007
<u>OPERATING RESERVE</u>		
Beginning Operating Reserve Balance 7-1-2020 (est.)	\$160,255.65	\$69,247.23
add: Replenish from FY 20/21 Levy		
less: Use for FY 20/21 Expenses		
Transfer from/(to) the Rehab Reserve	(89,446.15)	(32,492.23)
Ending Operating Reserve Balance 6-30-2021 (est.)	\$70,809.50	\$36,755.00
<u>REHABILITATION RESERVE</u>		
Beginning Rehab Reserve Balance 7-1-2020 (est.)	\$129,811.81	\$41,945.54
add: Collect from FY 20/21 Levy		
less: Use for FY 20/21 Rehab Projects	(34,680.00)	(8,610.00)
Transfer from/(to) the Operating Reserve	89,446.15	32,492.23
Ending Rehab Reserve Balance 6-30-2021 (est.)	\$184,577.96	\$65,827.77

D. DESCRIPTION OF BUDGET ITEMS

Description of the terms used in the preceding Budget, Assessment Rates and Fund Balance tables are listed below:

BUDGET:

DIRECT COSTS

Contract Maintenance - Landscaping – Includes all regularly scheduled contract labor, materials, supplies and equipment required to properly maintain and ensure the satisfactory condition or maintenance of all landscaping improvements, irrigation and related drainage systems, as well as maintenance of appurtenant facilities (the “improvements”). Cost to maintain improvements within the District’s entryway areas are not included in this amount.

Contract Maintenance - Parks - Includes all regularly scheduled contract labor, materials, supplies and equipment required to properly maintain and ensure the satisfactory condition or maintenance of park improvements, as well as maintenance of appurtenant facilities (the “improvements”).

Repair & Maintenance - Landscaping/Parks - This line item includes repairs or maintenance items that are generally unforeseen and not normally included in the annual maintenance contract costs. This may include repair of damaged amenities due to vandalism, storms, etc.

Maintenance - Parks City Staff - This line item includes maintenance items that are performed by the Parks staff.

Utilities - The furnishing of water and electricity required for the operation and maintenance of the improvements.

Rehab Reserve Project Expenditures – Expected costs for installation, replacement or planned upgrades of District improvements for the current year that were previously funded or accumulated in the Rehabilitation Reserve. The Rehabilitation Reserve is used to accumulate funds for costs associated with the future rehabilitation or replacement of District improvements that cannot be conveniently raised from a single year's assessment. If zero, this line item may not be shown in the budget.

ADMINISTRATION COSTS

City Administration – Estimated costs incurred by the City Finance Department and other Departments in preparing the annual budget for the Engineer's Report, together with other financial information required to determine the annual assessment. These costs would also include the preparation, posting and publishing of public notices required for City Council action relating to the District, as well as costs to perform legal review of documents.

Contract Administration – Park's Dept – Estimated Costs of Park and Recreation Department staff to coordinate and oversee the maintenance contracts and overall repair and maintenance of the District. This amount also includes the cost of the Department's estimates and analysis of certain budget items, estimated costs and useful lives of certain District Improvements.

County Auditor Fees - A fee of 1% of the total levy amount that is charged to the District by the County for placing assessments on property tax bills.

Consulting and Professional Services – Includes the costs and expenses of contracting with various professionals to provide legal, engineering and district administration services directly related to the District, including the calculation of the annual assessment amounts and the preparation of the Engineer's' Report.

Consultant Incidental Expenses - Includes out of pocket costs related to district administration.

Public Hearing Publishing Costs –Includes the out of pocket costs to publish public notices required for City Council action relating to the District.

Total Direct and Administration Costs – The total expected costs of the District.

BUDGET ADJUSTMENTS

Replenishment/(Use) of Operating Reserve – A “Replenishment” increases the levy in order to replenish the Operating Reserve. On the other hand, a “Use” of the Operating Reserve decreases the levy by drawing funds from the Operating Reserve for current year expenditures. If zero, this line item may not be shown in the budget. Further information regarding the function of the Operating Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Contribution for / (Use of) Rehab Reserve — A “Contribution” increases the levy in order to generate funding for the Rehabilitation Reserve. This reserve allows for the accumulation of funds for the possible rehabilitation projects or replacements in future years. On the other hand, a “Use of” of the Rehabilitation Reserve provides current year funding of rehabilitation projects or replacements from available funds within the Rehabilitation Reserve. If zero, this line item may not be shown in the budget. Further information regarding the function of the Rehabilitation Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Rounding Adjustment – The necessary rounding adjustment(s) due to limitations of the County property tax system that requires even penny levy amounts to be placed on the secured tax roll.

BALANCE TO LEVY - This is the total amount to be levied and collected through assessments for the current fiscal year for each zone. The Balance to Levy represents the sum of the total District costs together with any applicable adjustments to the budget as described above.

ASSESSMENT RATES:

APPLIED ASSESSMENT RATES

Total Assessable Acreage - The total acreage within each zone expected to be assessed in the current fiscal year.

Total Assessable Units - The total number of assessable single-family units within each zone expected to be assessed in the current fiscal year.

Total Equivalent Benefit Units (“EBUs”) - Total assessable EBUs within the District for the current fiscal year. Each assessable parcel is assigned EBUs as follows:

Land Use	EBU per Unit/Acre
Single Family Residential	1.00 per Unit
Multi-Family Residential	1.00 per Acre
Non-Residential	1.00 per Acre
Exempt	0.00 per Acre

Applied Assessment Rate per Equivalent Benefit Unit (EBU) - The assessment rate per EBU to be applied to the applicable Zone for the current fiscal year.

Maximum Assessment Rate per Equivalent Benefit Unit (EBU) - The maximum assessment rate per EBU that can be applied to the applicable Zone for the current fiscal year.

Potential Maximum Assessment Per Zone – The total amount that can be assessed to all parcels within each Zone for the current fiscal year based upon the expected number of assessable units and acres.

FUND BALANCE INFORMATION:

OPERATING RESERVE

Beginning Operating Reserve Balance 7-1-2020 (est.) - The anticipated beginning balance of cash and receivables net of any unpaid prior year obligations for each Zone. These beginning balances shall be used to fund each Zone’s expenditures from July 1, 2020 to December 31, 2020, as the Operating Reserve is required to compensate for the approximate six-month delay between the start of the District’s fiscal year and the receipt of the collections from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

Replenish from FY 20/21 Levy – This amount is added to the levy in order to replenish the Operating Reserve. Due to the six-month delay from the District’s receipt of assessment collections, the Operating Reserve balance shall be sufficiently funded to provide for expenditures from the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Expenses – The amount of the Operating Reserve to be used to fund FY 20/21 expenses. Portions of the Operating Reserve may be slated for current year expenditures in order to reduce the Ending Operating Reserve Balance to an amount no greater than the expected District costs for the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Rehab Reserve — The amount of Operating Reserve monies to be transferred to or from the Rehabilitation Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Operating Reserve Balance 6-30-2021 (est.) - This amount represents the anticipated Operating Reserve balance/(deficit) for each Zone as of June 30, 2021. The size of each Zone's Operating Reserve is limited by Streets and Highways Code 22569 which states that an Operating Reserve shall not exceed the estimated costs of maintenance, service and incidental expenses from the first day of the fiscal year (July 1) to the date that the Agency expects to receive the first apportionment of collections from the County, which is estimated to be December 31. Therefore, each Zone may retain an Operating Reserve amounting to the District's first six-months of expenses in order to meet ongoing obligations until the first collections are received from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

REHABILITATION RESERVE

Beginning Rehab Reserve Balance 7-1-2020 (est.) — The projected balance of funds in the Rehabilitation Reserve as of July 1, 2020. Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

Collect from FY 20/21 Levy — This amount is added to the levy to accumulate funding of future year rehabilitation projects, replacements, restorations or upgrades of District improvements. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Rehab Projects – The amount of Rehabilitation Reserve monies expected to be transferred out of the Rehabilitation Reserve to fund the costs of installation, replacement or planned upgrades of District improvements for the current year. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Operating Reserve — The amount of Rehabilitation Reserve monies to be transferred to or from the Operating Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Rehab Reserve Balance 6-30-2021 (est.) - The projected balance of funds in the Rehabilitation Reserve as of June 30, 2021. These funds shall be used to provide for future year rehabilitation projects, replacements, restorations or upgrades of District improvements which cannot be conveniently raised from a single year's assessment.

Should the District have no Rehabilitation Reserve or related activity, the Rehabilitation Reserve information may not be presented in the Report.

E. REHABILITATION RESERVE – CAPITAL IMPROVEMENT PLAN

Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

For each Zone showing a projected ending Rehabilitation Reserve balance or projected FY 2020/21 expenditures for Rehabilitation Reserve Project, a five-year Capital Improvement Plan showing the projected expenditures related to the rehabilitation, restoration and/or replacement of District improvements and other allowable costs, is shown below.

Zone A

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Replace, repair, renovate and/or refurbish plants, landscapes & related materials	\$7,000	\$7,000	\$7,000	\$10,000	\$10,000	\$34,000
Grid pruning	\$2,680	\$2,680	\$2,680	\$2,680	\$2,680	\$10,720
Replace irrigation controller(s)	\$0	\$0	\$0	\$40,000	\$0	\$40,000
Stone wall repair and medians	\$0	\$0	\$0	\$5,000	\$0	\$5,000
Repaint Cosmos Statute	\$0	\$0	\$0	\$40,000		\$40,000
Rehabilitate, renovate and/or replace median improvements	\$0	\$0	\$55,000	\$0	\$0	\$55,000
\$25k Insurance deductible to repair/replace 1 of 3 granite monument signs	\$25,000	\$0	\$0	\$0	\$0	\$0
Total Zone A Expenditures	\$34,680	\$9,680	\$64,680	\$97,680	\$12,680	\$184,720

Zone D

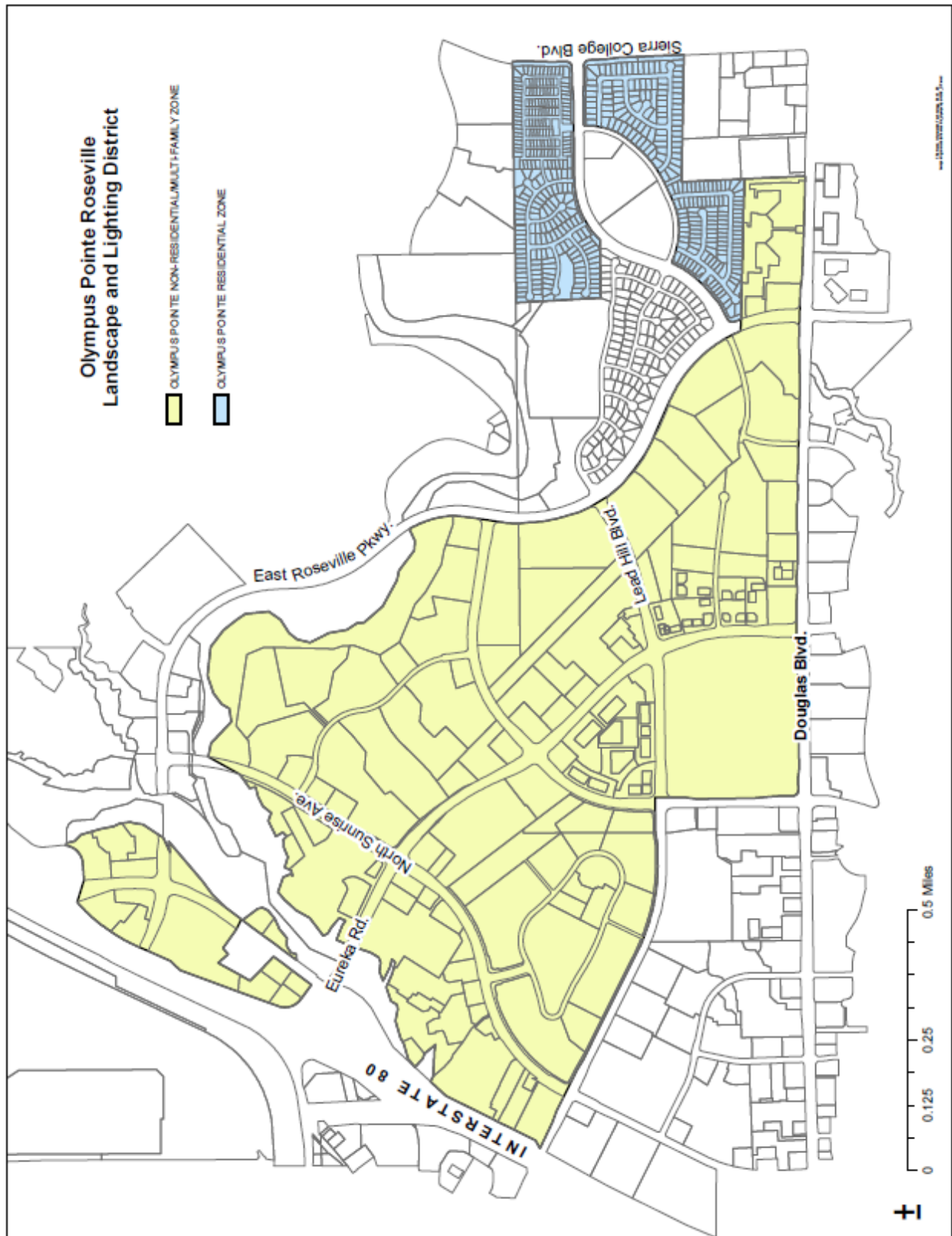
Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Replace, repair, renovate and/or refurbish plants, landscape & related materials	\$3,500	\$8,500	\$8,500	\$5,000	\$5,000	\$27,000
Grid pruning	\$5,110	\$5,110	\$5,110	\$5,110	\$5,110	\$20,440
Rehabilitate, renovate and/or replace project entryway improvements	\$0	\$0	\$0	\$20,000	\$0	\$20,000
Total Zone D Expenditures	\$8,610	\$13,610	\$13,610	\$30,110	\$10,110	\$67,440

Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements.

APPENDIX A – DISTRICT BOUNDARY MAP

The boundary map for the District has previously been submitted to the Clerk of the City in the format required under the Act and is, by reference, hereby made part of this Report. These District Boundary Maps are available for inspection at the office of the City Clerk during normal business hours.

For general reference purposes, a rendering of the District's Boundaries is presented herein.



APPENDIX B — 2020/21 ASSESSMENT ROLL

Parcel identification, for each lot or parcel within the District, shall be the parcel as shown on the Placer County Assessor's map for the year in which this Report is prepared.

A listing of parcels to be assessed within this District, along with the proposed assessment amounts, may be submitted to the City Clerk, under a separate cover, and by reference is made part of this Report.

Non-assessable lots or parcels may include areas of public streets and other roadways (typically not assigned an APN by the County); dedicated public easements, open space areas and rights-of-ways, including public greenbelts and parkways; utility rights-of-ways; small parcels vacated by the County, bifurcated lots, and other property that cannot be developed, excepting common area parcels. These types of parcels are considered to receive little or no benefit from the improvements and are therefore exempted from assessment.

At the conclusion of the public hearing for the District and the proposed assessments, approval of the Report (as submitted or as modified) confirms the method of apportionment and the assessment rate to be levied against each eligible parcel and thereby constitutes the approved levy and collection of assessments for FY 2020/21. The listing of parcels and the amount of assessment to be levied shall be submitted to the County Auditor/Controller and included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the current fiscal year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved in this Report. Therefore, if a single parcel has changed to multiple parcels, the assessment amount applied to each of the new parcels shall be recalculated and applied according to the approved method of apportionment and assessment rate rather than a proportionate share of the original assessment.

City of Roseville
Olympus Pointe Landscaping & Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ASSESSMENT CLASSIFICATION	ZONE	CHARGE	MAXIMUM ASMT	ACREAGE	SF UNITS	LEGAL DESCRIPTION
015-450-014-000	Non Residential	A	196.74	503.30	1.089	0.0	1.1 AC PAR 1 PMOR 27-1
015-450-015-000	Non Residential	A	165.32	422.89	0.915	0.0	PAR 2 PMOR 27-1
015-450-024-000	Non Residential	A	194.76	498.22	1.078	0.0	POR LOT 9 NORTHEAST PLAN #2P-97
015-450-027-000	Non Residential	A	384.66	983.96	2.129	0.0	2.1ACLOT 13 NORTHEAST PLAN#2P-97& FR SEC 36 11 6
015-450-030-000	Non Residential	A	184.64	472.34	1.022	0.0	1AC PAR 1 PMOR 27-131
015-450-031-000	Non Residential	A	340.56	871.19	1.885	0.0	1.9AC PAR 2 PMOR 27-131
015-450-042-000	Non Residential	A	1,128.64	2,887.04	6.2467	0.0	1.9AC PAR 1 PMOR 28 89
015-450-044-000	Non Residential	A	219.46	561.40	1.2147	0.0	PAR 3 PMOR 28 89
015-450-057-000	Non Residential	A	288.44	737.86	1.5965	0.0	TAYLOR RD 1905 ROS 1.6 AC POR PAR 4 PMOR 29-11
015-450-058-000	Non Residential	A	360.56	922.31	1.9956	0.0	2.0 AC POR PARS 1 2 & 4 PMOR 29-11
015-450-059-000	Non Residential	A	522.82	1,337.38	2.8937	0.0	2.9 AC PAR 3 & POR PARS 1 2 & 4 PMOR 29-11
015-450-063-000	Non Residential	A	329.66	843.28	1.8246	0.0	1.9 AC PAR 1 PMOR 29-106
015-450-064-000	Non Residential	A	433.76	1,109.58	2.4008	0.0	2.5 AC PAR 2 PMOR 29-106
015-450-065-000	Non Residential	A	347.00	887.65	1.9206	0.0	2.0 AC PAR 3 PMOR 29-106
015-450-066-000	Non Residential	A	485.82	1,242.73	2.6889	0.0	2.8 AC PAR 4 PMOR 29-106
015-450-079-000	Non Residential	A	1,782.20	4,558.85	9.864	0.0	11.5 AC PAR 3 & 4 PMOR 27-131 & SEC 36 11 6
015-450-080-000	Non Residential	A	302.04	772.66	1.6718	0.0	PAR A PMOR 32-133
015-450-083-000	Non Residential	A	241.64	618.15	1.3375	0.0	PAR E PMOR 32-133
015-450-085-000	Non Residential	A	785.36	2,008.96	4.3468	0.0	1.3AC PAR F PMOR 33-135
015-450-086-000	Common Area	A	-	-	0.0	0.0	16.1 AC POR PAR 2 PMOR 28 89
046-070-006-000	MF Residential	A	1,824.84	4,667.93	10.1	0.0	9.6 AC POR PAR 2 PMOR 32-28
048-012-001-000	Non Residential	A	8,942.66	22,875.15	49.495	0.0	53.2 AC PAR 4 PMOR 22-158 SBE# 2737-31-3
048-013-001-000	Non Residential	A	363.20	929.10	2.0103	0.0	2.1 AC PAR 1 PMOR 29-12
048-013-004-000	Non Residential	A	497.32	1,272.17	2.7526	0.0	2.6 AC PAR 3 PMOR 29-12
048-013-005-000	Non Residential	A	248.66	636.09	1.3763	0.0	1.3 AC PAR 4 PMOR 29-12
048-013-006-000	Non Residential	A	1,806.78	4,621.71	10.0	0.0	10.0AC POR PAR 2 & 3 PMOR 26-145
048-013-007-000	Non Residential	A	180.66	462.17	1.0	0.0	1 AC PAR 2 PMOR 29-20
048-013-008-000	Non Residential	A	234.88	600.82	1.3	0.0	1.3 AC PAR 3 PMOR 29-20
048-013-009-000	Non Residential	A	70.64	180.71	0.391	0.0	PAR 4 PMOR 29-20
048-013-010-000	Non Residential	A	180.66	462.17	1.0	0.0	1 AC PAR 1 PMOR 29-20
048-013-011-000	Non Residential	A	999.94	2,557.84	5.5344	0.0	6.2 AC POR PAR 1 PMOR 32-28
048-013-012-000	MF Residential	A	1,193.48	3,052.92	6.6056	0.0	7.4 AC POR PAR 2 PMOR 32-28
048-013-013-000	Non Residential	A	523.96	1,340.30	2.9	0.0	
048-013-014-000	Non Residential	A	505.88	1,294.08	2.8	0.0	
048-021-016-000	Non Residential	A	150.68	385.45	0.834	0.0	PAR A PMOR 27-157
048-021-017-000	Non Residential	A	450.60	1,152.65	2.494	0.0	2.5 AC PAR B PMOR 27-157
048-021-018-000	Non Residential	A	560.82	1,434.58	3.104	0.0	3.1 AC PAR C PMOR 27-157
048-021-019-000	Non Residential	A	501.38	1,282.52	2.775	0.0	2.8 AC PAR D PMOR 27-157
048-021-020-000	Non Residential	A	665.24	1,701.71	3.682	0.0	3.7 AC PAR E PMOR 27-157
048-021-021-000	Non Residential	A	714.04	1,826.50	3.952	0.0	4.0 AC PAR F PMOR 27-157

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048-021-022-000	Non Residential	A	387.18	990.43	2.143	0.0	2.1 AC PAR G PMOR 27-157
048-021-052-000	MF Residential	A	2,279.42	5,830.70	12.6159	0.0	11.9 AC POR PAR 2 PMOR 32-28
048-021-053-000	Non Residential	A	76.62	196.01	0.4241	0.0	POR PAR 1 PMOR 32-28
048-451-003-000	Non Residential	A	370.92	948.84	2.053	0.0	2.1 AC PAR 2 PMOR 27-36 SBE# 2748-31-31
048-451-004-000	Non Residential	A	62.14	158.99	0.344	0.0	PAR 1 PMOR 27-36
048-451-005-000	Non Residential	A	362.98	928.50	2.009	0.0	2 AC PAR 3 PMOR 27-36
048-451-006-000	Non Residential	A	1,756.54	4,493.23	9.722	0.0	9.7AC PAR 4 PMOR 27-36
048-451-007-000	Non Residential	A	109.30	279.61	0.605	0.0	PAR 18 PMOR 27-36
048-451-009-000	Park	A	-	-	0.0	0.0	PAR 5 PARK PMOR 27-36
048-451-010-000	Open Space	A	-	-	0.0	0.0	5.2AC PAR 6 COMMON AREA PMOR 27-36
048-451-011-000	Non Residential	A	176.16	450.62	0.975	0.0	POR PAR 8 & 9 PMOR 27-36
048-451-012-000	Non Residential	A	582.14	1,489.11	3.222	0.0	3.2 AC PAR 7 PMOR 27-36
048-451-013-000	Non Residential	A	120.14	307.34	0.665	0.0	PAR 17 PMOR 27-36
048-451-014-000	Non Residential	A	176.52	451.54	0.977	0.0	1AC PAR 16 PMOR 27-36
048-451-015-000	Non Residential	A	288.72	738.55	1.598	0.0	1.6 AC POR PAR 14 & 15 PMOR 27-36
048-451-016-000	Non Residential	A	776.90	1,987.33	4.3	0.0	4.3 AC POR PAR 8 & 9 PMOR 27-36
048-451-018-000	Non Residential	A	243.20	622.13	1.3461	0.0	1.4 AC PAR 1 PMOR 29-23
048-451-019-000	Non Residential	A	208.46	533.25	1.1538	0.0	1.2 AC PAR 2 PMOR 29-23
048-451-020-000	Non Residential	A	122.68	313.81	0.679	0.0	POR PAR 12 PMOR 27-36
048-451-022-000	Non Residential	A	2,078.70	5,317.28	11.505	0.0	11.5 AC POR PAR 10 PMOR 27-36
048-451-024-000	Non Residential	A	225.48	576.79	1.248	0.0	1.1 AC POR PAR 13 PMOR 27-36
048-451-026-000	Non Residential	A	162.40	415.45	0.8989	0.0	POR PARS 14 & 15 PMOR 27-36
048-452-004-000	Non Residential	A	1,957.10	5,006.24	10.832	0.0	10.8 AC L 6 AUTOMALL Q-74
048-452-005-000	Non Residential	A	1,121.10	2,867.77	6.205	0.0	5.6 AC POR L9 AUTOMALL Q-74
048-452-006-000	Non Residential	A	137.48	351.71	0.761	0.0	POR PAR 2 & 3 PMOR 28-73
048-452-007-000	Non Residential	A	346.90	887.37	1.92	0.0	1.9 AC PAR 1 PMOR 28-73
048-452-009-000	Non Residential	A	2,366.88	6,054.44	13.1	0.0	13.1 AC POR PAR 4 PMOR 28-73
048-452-010-000	Non Residential	A	758.84	1,941.12	4.2	0.0	4.2 AC POR PAR 4 PMOR 28-73
048-452-011-000	Non Residential	A	419.34	1,072.70	2.321	0.0	1.7ACPOR L 9 AUTOMALL Q-74
048-452-012-000	Non Residential	A	491.98	1,258.49	2.723	0.0	2.3 AC POR L 4 AUTOMALL Q-74
048-452-013-000	Non Residential	A	328.10	839.30	1.816	0.0	2.2 AC P L 4 AUTOMALL Q-74
048-452-014-000	Non Residential	A	632.36	1,617.60	3.5	0.0	3.5 AC L 5 AUTOMALL Q-74
048-452-015-000	Non Residential	A	433.80	1,109.67	2.401	0.0	2.4 AC POR PAR 2 PMOR 28-96
048-452-016-000	Non Residential	A	911.34	2,331.19	5.044	0.0	5 AC POR PAR 2 PMOR 28-96
048-452-017-000	Non Residential	A	624.78	1,598.19	3.458	0.0	3.5 AC PAR 1 PMOR 28-96
048-452-019-000	Non Residential	A	1,387.06	3,548.09	7.677	0.0	7.7 AC PAR 2 & 3 PMOR 27-100
048-452-020-000	Non Residential	A	480.96	1,230.30	2.662	0.0	2.7 AC PAR 1 PMOR 27-100
048-452-021-000	Non Residential	A	2,027.56	5,186.48	11.222	0.0	11.2 AC L 7 AUTOMALL Q-74
048-452-022-000	Non Residential	A	351.04	898.00	1.943	0.0	1.9 AC PAR 4 PMOR 28-74
048-452-023-000	Non Residential	A	482.22	1,233.53	2.669	0.0	2.7 AC PAR 1 PMOR 28-74

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048-452-024-000	Non Residential	A	209.22	535.19	1.158	0.0	1.2 AC PAR 2 PMOR 28-74
048-452-025-000	Non Residential	A	233.06	596.20	1.29	0.0	1.3 PAR 3 PMOR 28-74
048-452-026-000	Non Residential	A	1,102.12	2,819.24	6.1	0.0	
048-452-027-000	Non Residential	A	451.68	1,155.43	2.5	0.0	
048-452-028-000	Non Residential	A	289.08	739.47	1.6	0.0	
048-460-023-000	Park	A	-	-	0.0	0.0	1.9 AC LOT 15 STONE POINT SUBD NO 00-07 MOR Y-64
048-460-024-000	Non Residential	A	1,742.72	4,457.87	9.6455	0.0	7.3 AC LOT 16 STONE POINT SUBD NO 00-07 MOR Y-64
048-460-025-000	Non Residential	A	1,387.98	3,550.44	7.6821	0.0	5.8 AC LOT 17 STONE POINT SUBD NO 00-07 MOR Y-64
048-460-026-000	Non Residential	A	504.72	1,291.07	2.7935	0.0	2.1 AC LOT 18 STONE POINT SUBD NO 00-07 MOR Y-64
048-460-027-000	Open Space	A	-	-	0.0	0.0	25.9 AC L19 OPN SP FLD PLAIN ACCESS BIKE PATH Y-64
048-460-030-000	Non Residential	A	1,094.90	2,800.76	6.06	0.0	4.6 AC P LOTS 2&3 STONE POINT SUBD 00-007 MOR Y-64
048-460-031-000	Non Residential	A	1,118.38	2,860.84	6.19	0.0	4.7 AC LOT5& P LOTS3&4 STONE POINT SUBD00-007 Y-64
048-460-032-000	Non Residential	A	357.20	913.71	1.977	0.0	1.5 AC POR LOT 1 & 2 STONE POINT SUBD Y-64
048-460-034-000	MF Residential	A	534.34	1,366.87	2.9575	0.0	3.3 AC POR PAR 2 PMOR 32-28
048-460-035-000	Non Residential	A	323.86	828.44	1.7925	0.0	2.0 AC POR PAR 1 PMOR 32-28
048-460-036-000	Non Residential	A	1,417.94	3,627.07	7.8479	0.0	5.9 AC PAR 1 PMOR 32-70
048-460-037-000	Non Residential	A	213.88	547.12	1.1838	0.0	PAR 2 PMOR 32-70
048-460-038-000	Non Residential	A	213.88	547.12	1.1838	0.0	PAR 3 PMOR 32-70
048-460-039-000	Non Residential	A	1,345.82	3,442.62	7.4488	0.0	5.6 AC PAR 4 PMOR 32-70
048-460-054-000	Non Residential	A	4,806.04	12,293.75	26.6	0.0	
456-290-001-000	Non Residential	A	81.62	208.81	0.4518	0.0	UNT110-1ST FLR BLD E-N.SNRSE PROF CTR CND-#0108884
456-290-002-000	Non Residential	A	27.18	69.56	0.1505	0.0	UNT115-1ST FLR BLD E-N.SNRSE PROF CTR CND-#0108884
456-290-003-000	Non Residential	A	55.00	140.73	0.3045	0.0	UNT120-1ST FLR BLD E-N.SNRSE PROF CTR CND-#0108884
456-290-004-000	Non Residential	A	62.58	160.10	0.3464	0.0	UNT130-1ST FLR BLD E-N.SNRSE PROF CTR CND-#0108884
456-290-005-000	Non Residential	A	68.66	175.67	0.3801	0.0	UNT140-1ST FLR BLD E-N.SNRSE PROF CTR CND-#0108884
456-290-006-000	Non Residential	A	72.02	184.27	0.3987	0.0	UNT210-2ND FLR BLD E-N.SNRSE PROF CTR CND-#0108884
456-290-007-000	Non Residential	A	86.48	221.24	0.4787	0.0	UNT220-2ND FLR BLD E-N.SNRSE PROF CTR CND-#0108884
456-290-009-000	Common Area	A	-	-	0.0	0.0	CMN ARA FLR 1 BLD E-N.SNRSE PROF CTR CND-#0108884
456-290-010-000	Common Area	A	-	-	0.0	0.0	CMN ARA FLR 2 BLD E-N.SNRSE PROF CTR CND-#0108884
456-290-011-000	Common Area	A	-	-	0.0	0.0	1.0A PAR C - CMN ARA N.SNRSE PROF CTR CND-#0122733
456-290-012-000	Non Residential	A	60.14	153.86	0.3329	0.0	UNT230-2ND FLR BLD E-N.SNRSE PROF CTR CND-#0122733
456-290-013-000	Non Residential	A	57.14	146.18	0.3163	0.0	UNT240-2ND FLR BLD E-N.SNRSE PROF CTR CND-#0122733
456-290-014-000	Non Residential	A	34.22	87.54	0.1894	0.0	UNT250-2ND FLR BLD E-N.SNRSE PROF CTR CND-#0122733
456-300-007-000	Common Area	A	-	-	0.0	0.0	PAR B COMMON AREA N SUNRISE PROF CEN CONDO
456-300-015-000	Non Residential	A	41.34	105.79	0.2289	0.0	UNIT 390 1ST AMNDED BLG B N SUNRISE PROF CEN CONDO
456-300-019-000	Non Residential	A	47.78	122.24	0.2645	0.0	UNIT 330 1ST AMNDED BLG B N SUNRISE PROF CEN CONDO
456-300-020-000	Non Residential	A	48.90	125.11	0.2707	0.0	UNIT 300 1ST AMNDED BLG B N SUNRISE PROF CEN CONDO
456-300-021-000	Common Area	A	-	-	0.0	0.0	LOBBY COMMON AREA N SUNRISE PROF CEN CONDO
456-300-022-000	Non Residential	A	123.46	315.85	0.6834	0.0	UNIT 110 1ST AMNDED BLG B N SUNRISE PROF CEN CONDO
456-300-023-000	Non Residential	A	44.78	114.57	0.2479	0.0	UNIT 180 1ST AMNDED BLG B N SUNRISE PROF CEN CONDO

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456-300-026-000	Non Residential	A	31.86	81.53	0.1764	0.0	UNIT 200 1ST AMNDED BLG B N SUNRISE PROF CEN CONDO
456-300-027-000	Non Residential	A	140.60	359.66	0.7782	0.0	UNIT 270 BLG B 1ST AMNDED N SUNRISE PROF CEN CONDO
456-300-028-000	Non Residential	A	46.70	119.47	0.2585	0.0	UNIT 290 BLG B 1ST AMNDED N SUNRISE PROF CEN CONDO
456-300-029-000	Common Area	A	-	-	0.0	0.0	LOBBY COMMON AREA N SUNRISE PROF CEN CONDO
456-300-030-000	Common Area	A	-	-	0.0	0.0	
456-300-031-000	Common Area	A	-	-	0.0	0.0	
456-300-032-000	Non Residential	A	78.62	201.14	0.4352	0.0	
456-330-001-000	Non Residential	A	88.54	226.51	0.4901	0.0	
456-330-002-000	Non Residential	A	82.46	210.93	0.4564	0.0	
456-330-003-000	Non Residential	A	131.04	335.21	0.7253	0.0	
459-010-001-000	Non Residential	A	1,362.48	3,485.23	7.541	0.0	7.5 AC PAR A PMOR 25-64
459-010-002-000	Non Residential	A	1,346.04	3,443.17	7.45	0.0	7.5 AC PAR B PMOR 25-64
459-010-003-000	Non Residential	A	849.18	2,172.20	4.7	0.0	4.7 AC PAR 1 PMOR 28-43
459-010-007-000	Non Residential	A	469.94	1,202.11	2.601	0.0	2.6 AC PAR 2 PMOR 25-70
459-010-012-000	Non Residential	A	446.26	1,141.56	2.47	0.0	2.5 AC PAR 14 DOUGLAS CENTER PH 1 S-98
459-010-019-000	Non Residential	A	684.76	1,751.63	3.79	0.0	3.8 AC PAR 1 DOUGLAS CENTER PHASE 2 T-32
459-010-026-000	Non Residential	A	336.90	861.81	1.8647	0.0	1.9 AC POR PAR 4 & 5 DOUGLAS CENTER PHASE 2 T-32
459-010-028-000	Non Residential	A	478.76	1,224.66	2.6498	0.0	2.7 AC LT 9 T-32&POR LT 5 DOUGLAS CENTER PH 1 S-98
459-010-030-000	Non Residential	A	136.76	349.86	0.757	0.0	PAR 1 PMOR T-94
459-010-031-000	Non Residential	A	145.06	371.08	0.8029	0.0	PAR 2 PMOR T-94
459-010-040-000	Non Residential	A	1,007.98	2,578.41	5.5789	0.0	5.5 AC PAR 13 DOUGLAS CENTER PH 3 U-89
459-010-041-000	Common Area	A	-	-	0.0	0.0	1.3 AC POR PAR A PMOR T-64 & PAR 8 DGLS CEN PHS-98
459-010-044-000	Non Residential	A	1,722.74	4,406.75	9.5349	0.0	9.3AC PAR10 - 12 DOUGLAS CEN P 3 & POR P2 - 4 PH 2
459-010-047-000	Non Residential	A	291.96	746.87	1.616	0.0	1.6 AC PAR A PMOR 30-17
459-010-048-000	Non Residential	A	510.94	1,307.02	2.828	0.0	2.8 AC PAR B PMOR 30-17
459-010-049-000	Non Residential	A	1,396.16	3,571.38	7.7274	0.0	7.7 AC PAR 1 PMOR 31-95
459-010-050-000	Non Residential	A	1,124.18	2,875.63	6.222	0.0	6.2 AC PAR 2 PMOR 31-95
459-010-051-000	Non Residential	A	1,269.24	3,246.70	7.0249	0.0	7.0AC PAR3 PM 31-95 SBE# 2745-31-11,SBE 135-31-122
459-010-052-000	Non Residential	A	1,305.50	3,339.46	7.2256	0.0	7.2 AC PAR 4 PMOR 31-95
459-010-053-000	Non Residential	A	310.54	794.38	1.71881	0.0	1.8 AC PAR 1 PMOR 35-17
459-010-054-000	Non Residential	A	327.80	838.52	1.81429	0.0	1.9 AC PAR 2 PMOR 35-17
459-020-001-000	Non Residential	A	139.20	356.10	0.7705	0.0	PAR 1 BLDG 1 LAVA RIDGE PROF CEN S-102
459-020-003-000	Non Residential	A	110.42	282.48	0.6112	0.0	PAR 3 BLDG 3 LAVA RIDGE PROF CEN S-102
459-020-006-000	Non Residential	A	48.92	125.16	0.2708	0.0	UNIT 1 LAVA RIDGE PROF CENTER CONDO BLD 2
459-020-007-000	Non Residential	A	57.66	147.53	0.3192	0.0	UNIT 2 LAVA RIDGE PROF CENTER CONDO BLD 2
459-020-008-000	Non Residential	A	26.14	66.88	0.1447	0.0	UNIT 3 LAVA RIDGE PROF CENTER CONDO BLD 2
459-020-009-000	Non Residential	A	20.50	52.46	0.1135	0.0	UNIT 4 LAVA RIDGE PROF CENTER CONDO BLD 2
459-020-010-000	Common Area	A	-	-	0.0	0.0	BUILDING COMMON AREA
459-030-001-000	Non Residential	A	113.28	289.78	0.627	0.0	PAR 4 LAVA RIDGE PROF CENTER PH 2 T-70
459-030-002-000	Non Residential	A	113.28	289.78	0.627	0.0	PAR 5 LAVA RIDGE PROF CENTER PH 2 T-70

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459-030-003-000	Non Residential	A	180.30	461.25	0.998	0.0	PAR 6 LAVA RIDGE PROF CENTER PH 2 T-70
459-030-004-000	Non Residential	A	118.88	304.11	0.658	0.0	PAR 7 LAVA RIDGE PROF CENTER PH 2 T-70
459-030-006-000	Non Residential	A	154.48	395.16	0.855	0.0	PAR 1 PMOR 29-147
459-030-007-000	Non Residential	A	168.02	429.82	0.93	0.0	PAR 2 PMOR 29-147
459-030-008-000	Non Residential	A	154.48	395.16	0.855	0.0	PAR 3 PMOR 29-147
459-040-001-000	Non Residential	A	145.72	372.79	0.8066	0.0	PAR 1 PMOR 29-054
459-040-002-000	Non Residential	A	122.64	313.72	0.6788	0.0	PAR 2 PMOR 29-054
459-040-003-000	Non Residential	A	165.20	422.61	0.9144	0.0	PAR 3 PMOR 29-054
459-040-004-000	Common Area	A	-	-	0.0	0.0	1.8 AC PAR A COMMON AREA PMOR 29-054
459-040-005-000	Non Residential	A	133.70	342.01	0.74	0.0	PAR 1 POR 29-77
459-040-006-000	Non Residential	A	133.70	342.01	0.74	0.0	PAR 2 POR 29-77
459-040-007-000	Common Area	A	-	-	0.0	0.0	1.1 AC PAR 3 PMOR 29-77 COMMON AREA
459-040-008-000	Non Residential	A	91.42	233.86	0.506	0.0	PAR 1 PMOR 29-146
459-040-009-000	Non Residential	A	99.72	255.12	0.552	0.0	PAR 2 PMOR 29-146
459-040-010-000	Non Residential	A	110.20	281.92	0.61	0.0	PAR 3 PMOR 29-146
459-040-011-000	Common Area	A	-	-	0.0	0.0	1.0 AC PARCEL A COMMON AREA PMOR 29-146
459-050-001-000	Non Residential	A	219.00	560.20	1.2121	0.0	1.2 AC PAR 2 PMOR 29-87
459-050-002-000	Non Residential	A	237.24	606.88	1.3131	0.0	1.3 AC PAR 4 PMOR 29-87
459-050-003-000	Non Residential	A	230.08	588.57	1.2735	0.0	PAR A1 PMOR 29-122
459-050-004-000	Non Residential	A	96.06	245.74	0.5317	0.0	PAR A2 PMOR 29-122
459-050-005-000	Non Residential	A	230.08	588.57	1.2735	0.0	PAR A3 PMOR 29-122
459-050-007-000	Non Residential	A	147.68	377.78	0.8174	0.0	PAR B1 PMOR 29-122
459-050-008-000	Non Residential	A	73.22	187.32	0.4053	0.0	PAR B2 PMOR 29-122
459-050-009-000	Non Residential	A	93.28	238.62	0.5163	0.0	PAR B3 PMOR 29-122
459-050-011-000	Non Residential	A	219.64	561.86	1.2157	0.0	PAR C1 PMOR 29-122
459-050-012-000	Non Residential	A	219.62	561.81	1.2156	0.0	PAR C2 PMOR 29-122
459-050-014-000	Non Residential	A	478.76	1,224.71	2.6499	0.0	EUREKA RD 1544 STE 140 ROS PAR D1 PMOR 29-122
459-050-016-000	Non Residential	A	549.04	1,404.44	3.0388	0.0	PAR 'A1' PMOR 29-142
459-050-018-000	Non Residential	A	549.04	1,404.44	3.0388	0.0	PAR 'B1' PMOR 29-142
459-050-020-000	Non Residential	A	635.70	1,626.15	3.5185	0.0	PAR 'C1' PMOR 29-142
459-070-001-000	SF	A	180.66	462.17	0.0	1.0	
459-070-002-000	SF	A	180.66	462.17	0.0	1.0	
459-070-003-000	SF	A	180.66	462.17	0.0	1.0	
459-070-004-000	SF	A	180.66	462.17	0.0	1.0	
459-070-005-000	SF	A	180.66	462.17	0.0	1.0	
459-070-006-000	SF	A	180.66	462.17	0.0	1.0	
459-070-007-000	SF	A	180.66	462.17	0.0	1.0	
459-070-008-000	SF	A	180.66	462.17	0.0	1.0	
459-070-009-000	SF	A	180.66	462.17	0.0	1.0	
459-070-010-000	SF	A	180.66	462.17	0.0	1.0	

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459-070-011-000	SF	A	180.66	462.17	0.0	1.0	
459-070-012-000	SF	A	180.66	462.17	0.0	1.0	
459-070-013-000	SF	A	180.66	462.17	0.0	1.0	
459-070-014-000	SF	A	180.66	462.17	0.0	1.0	
459-070-015-000	SF	A	180.66	462.17	0.0	1.0	
459-070-016-000	SF	A	180.66	462.17	0.0	1.0	
459-070-017-000	SF	A	180.66	462.17	0.0	1.0	
459-070-018-000	SF	A	180.66	462.17	0.0	1.0	
459-070-019-000	SF	A	180.66	462.17	0.0	1.0	
459-070-020-000	SF	A	180.66	462.17	0.0	1.0	
459-070-021-000	SF	A	180.66	462.17	0.0	1.0	
459-070-022-000	SF	A	180.66	462.17	0.0	1.0	
459-070-023-000	SF	A	180.66	462.17	0.0	1.0	
459-070-024-000	SF	A	180.66	462.17	0.0	1.0	
459-070-025-000	SF	A	180.66	462.17	0.0	1.0	
459-070-026-000	SF	A	180.66	462.17	0.0	1.0	
459-070-027-000	SF	A	180.66	462.17	0.0	1.0	
459-070-028-000	SF	A	180.66	462.17	0.0	1.0	
459-070-029-000	SF	A	180.66	462.17	0.0	1.0	
459-070-030-000	SF	A	180.66	462.17	0.0	1.0	
459-070-031-000	SF	A	180.66	462.17	0.0	1.0	
459-070-032-000	SF	A	180.66	462.17	0.0	1.0	
459-070-033-000	SF	A	180.66	462.17	0.0	1.0	
459-070-034-000	SF	A	180.66	462.17	0.0	1.0	
459-070-035-000	SF	A	180.66	462.17	0.0	1.0	
459-070-036-000	SF	A	180.66	462.17	0.0	1.0	
459-070-037-000	SF	A	180.66	462.17	0.0	1.0	
459-070-038-000	SF	A	180.66	462.17	0.0	1.0	
459-070-039-000	SF	A	180.66	462.17	0.0	1.0	
459-070-040-000	SF	A	180.66	462.17	0.0	1.0	
459-070-041-000	SF	A	180.66	462.17	0.0	1.0	
459-070-042-000	SF	A	180.66	462.17	0.0	1.0	
459-070-043-000	SF	A	180.66	462.17	0.0	1.0	
459-070-044-000	SF	A	180.66	462.17	0.0	1.0	
459-070-045-000	SF	A	180.66	462.17	0.0	1.0	
459-070-046-000	SF	A	180.66	462.17	0.0	1.0	
459-070-047-000	SF	A	180.66	462.17	0.0	1.0	
459-070-048-000	SF	A	180.66	462.17	0.0	1.0	
459-070-049-000	SF	A	180.66	462.17	0.0	1.0	
459-070-050-000	SF	A	180.66	462.17	0.0	1.0	

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459-070-051-000	SF	A	180.66	462.17	0.0	1.0	
459-070-052-000	SF	A	180.66	462.17	0.0	1.0	
459-070-053-000	SF	A	180.66	462.17	0.0	1.0	
459-070-054-000	SF	A	180.66	462.17	0.0	1.0	
459-070-055-000	SF	A	180.66	462.17	0.0	1.0	
459-070-056-000	SF	A	180.66	462.17	0.0	1.0	
459-070-057-000	SF	A	180.66	462.17	0.0	1.0	
459-070-058-000	Exempt	A	-	-	0.0	0.0	
459-070-059-000	Exempt	A	-	-	0.0	0.0	
459-070-060-000	Exempt	A	-	-	0.0	0.0	
459-070-061-000	Exempt	A	-	-	0.0	0.0	
459-070-062-000	Exempt	A	-	-	0.0	0.0	
459-070-063-000	Exempt	A	-	-	0.0	0.0	
459-070-064-000	Exempt	A	-	-	0.0	0.0	
459-070-065-000	Exempt	A	-	-	0.0	0.0	
459-070-066-000	Exempt	A	-	-	0.0	0.0	
459-080-001-000	SF	A	180.66	462.17	0.0	1.0	
459-080-002-000	SF	A	180.66	462.17	0.0	1.0	
459-080-003-000	SF	A	180.66	462.17	0.0	1.0	
459-080-004-000	SF	A	180.66	462.17	0.0	1.0	
459-080-005-000	SF	A	180.66	462.17	0.0	1.0	
459-080-006-000	SF	A	180.66	462.17	0.0	1.0	
459-080-007-000	SF	A	180.66	462.17	0.0	1.0	
459-080-008-000	SF	A	180.66	462.17	0.0	1.0	
459-080-009-000	SF	A	180.66	462.17	0.0	1.0	
459-080-010-000	SF	A	180.66	462.17	0.0	1.0	
459-080-011-000	SF	A	180.66	462.17	0.0	1.0	
459-080-012-000	SF	A	180.66	462.17	0.0	1.0	
459-080-013-000	SF	A	180.66	462.17	0.0	1.0	
459-080-014-000	SF	A	180.66	462.17	0.0	1.0	
459-080-015-000	SF	A	180.66	462.17	0.0	1.0	
459-080-016-000	SF	A	180.66	462.17	0.0	1.0	
459-080-017-000	SF	A	180.66	462.17	0.0	1.0	
459-080-018-000	SF	A	180.66	462.17	0.0	1.0	
459-080-019-000	SF	A	180.66	462.17	0.0	1.0	
459-080-020-000	SF	A	180.66	462.17	0.0	1.0	
459-080-021-000	SF	A	180.66	462.17	0.0	1.0	
459-080-022-000	SF	A	180.66	462.17	0.0	1.0	
459-080-023-000	SF	A	180.66	462.17	0.0	1.0	
459-080-024-000	SF	A	180.66	462.17	0.0	1.0	

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ASSESSOR PARCEL NUMBER	ASSESSMENT CLASSIFICATION	ZONE	CHARGE	MAXIMUM ASMT	ACREAGE	SF UNITS	LEGAL DESCRIPTION
459-080-025-000	SF	A	180.66	462.17	0.0	1.0	
459-080-026-000	SF	A	180.66	462.17	0.0	1.0	
459-080-027-000	SF	A	180.66	462.17	0.0	1.0	
459-080-028-000	SF	A	180.66	462.17	0.0	1.0	
459-080-029-000	SF	A	180.66	462.17	0.0	1.0	
459-080-030-000	SF	A	180.66	462.17	0.0	1.0	
459-080-031-000	SF	A	180.66	462.17	0.0	1.0	
459-080-032-000	SF	A	180.66	462.17	0.0	1.0	
459-080-033-000	SF	A	180.66	462.17	0.0	1.0	
459-080-034-000	SF	A	180.66	462.17	0.0	1.0	
459-080-035-000	SF	A	180.66	462.17	0.0	1.0	
459-080-036-000	SF	A	180.66	462.17	0.0	1.0	
459-080-037-000	SF	A	180.66	462.17	0.0	1.0	
459-080-038-000	SF	A	180.66	462.17	0.0	1.0	
459-080-039-000	SF	A	180.66	462.17	0.0	1.0	
459-080-040-000	SF	A	180.66	462.17	0.0	1.0	
459-080-041-000	SF	A	180.66	462.17	0.0	1.0	
459-080-042-000	SF	A	180.66	462.17	0.0	1.0	
459-080-043-000	SF	A	180.66	462.17	0.0	1.0	
459-080-044-000	SF	A	180.66	462.17	0.0	1.0	
459-080-045-000	SF	A	180.66	462.17	0.0	1.0	
459-080-046-000	SF	A	180.66	462.17	0.0	1.0	
459-080-047-000	SF	A	180.66	462.17	0.0	1.0	
459-080-048-000	SF	A	180.66	462.17	0.0	1.0	
459-080-049-000	SF	A	180.66	462.17	0.0	1.0	
459-080-050-000	SF	A	180.66	462.17	0.0	1.0	
459-080-051-000	SF	A	180.66	462.17	0.0	1.0	
459-080-052-000	SF	A	180.66	462.17	0.0	1.0	
459-080-053-000	SF	A	180.66	462.17	0.0	1.0	
459-080-054-000	SF	A	180.66	462.17	0.0	1.0	
459-080-055-000	SF	A	180.66	462.17	0.0	1.0	
459-080-056-000	SF	A	180.66	462.17	0.0	1.0	
459-080-057-000	SF	A	180.66	462.17	0.0	1.0	
459-080-058-000	SF	A	180.66	462.17	0.0	1.0	
459-080-059-000	SF	A	180.66	462.17	0.0	1.0	
459-080-060-000	SF	A	180.66	462.17	0.0	1.0	
459-080-061-000	SF	A	180.66	462.17	0.0	1.0	
459-080-062-000	SF	A	180.66	462.17	0.0	1.0	
459-080-063-000	SF	A	180.66	462.17	0.0	1.0	
459-080-064-000	SF	A	180.66	462.17	0.0	1.0	

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ASSESSOR PARCEL NUMBER	ASSESSMENT CLASSIFICATION	ZONE	CHARGE	MAXIMUM ASMT	ACREAGE	SF UNITS	LEGAL DESCRIPTION
459-080-065-000	SF	A	180.66	462.17	0.0	1.0	
459-080-066-000	SF	A	180.66	462.17	0.0	1.0	
459-080-067-000	SF	A	180.66	462.17	0.0	1.0	
459-080-068-000	SF	A	180.66	462.17	0.0	1.0	
459-080-069-000	SF	A	180.66	462.17	0.0	1.0	
459-080-070-000	SF	A	180.66	462.17	0.0	1.0	
459-080-071-000	SF	A	180.66	462.17	0.0	1.0	
459-080-072-000	SF	A	180.66	462.17	0.0	1.0	
459-080-073-000	SF	A	180.66	462.17	0.0	1.0	
459-080-074-000	Exempt	A	-	-	0.0	0.0	
459-080-075-000	Exempt	A	-	-	0.0	0.0	
459-080-076-000	Exempt	A	-	-	0.0	0.0	
459-080-077-000	Exempt	A	-	-	0.0	0.0	
459-080-078-000	Exempt	A	-	-	0.0	0.0	
459-090-001-000	SF	A	180.66	462.17	0.0	1.0	
459-090-002-000	SF	A	180.66	462.17	0.0	1.0	
459-090-003-000	SF	A	180.66	462.17	0.0	1.0	
459-090-004-000	SF	A	180.66	462.17	0.0	1.0	
459-090-005-000	SF	A	180.66	462.17	0.0	1.0	
459-090-006-000	SF	A	180.66	462.17	0.0	1.0	
459-090-007-000	SF	A	180.66	462.17	0.0	1.0	
459-090-008-000	SF	A	180.66	462.17	0.0	1.0	
459-090-009-000	SF	A	180.66	462.17	0.0	1.0	
459-090-010-000	SF	A	180.66	462.17	0.0	1.0	
459-090-011-000	SF	A	180.66	462.17	0.0	1.0	
459-090-012-000	SF	A	180.66	462.17	0.0	1.0	
459-090-013-000	SF	A	180.66	462.17	0.0	1.0	
459-090-014-000	SF	A	180.66	462.17	0.0	1.0	
459-090-015-000	SF	A	180.66	462.17	0.0	1.0	
459-090-016-000	SF	A	180.66	462.17	0.0	1.0	
459-090-017-000	SF	A	180.66	462.17	0.0	1.0	
459-090-018-000	SF	A	180.66	462.17	0.0	1.0	
459-090-019-000	SF	A	180.66	462.17	0.0	1.0	
459-090-020-000	SF	A	180.66	462.17	0.0	1.0	
459-090-021-000	SF	A	180.66	462.17	0.0	1.0	
459-090-022-000	SF	A	180.66	462.17	0.0	1.0	
459-090-023-000	SF	A	180.66	462.17	0.0	1.0	
459-090-024-000	SF	A	180.66	462.17	0.0	1.0	
459-090-025-000	SF	A	180.66	462.17	0.0	1.0	
459-090-026-000	SF	A	180.66	462.17	0.0	1.0	

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459-090-027-000	SF	A	180.66	462.17	0.0	1.0	
459-090-028-000	SF	A	180.66	462.17	0.0	1.0	
459-090-029-000	SF	A	180.66	462.17	0.0	1.0	
459-090-030-000	SF	A	180.66	462.17	0.0	1.0	
459-090-031-000	SF	A	180.66	462.17	0.0	1.0	
459-090-032-000	SF	A	180.66	462.17	0.0	1.0	
459-090-033-000	SF	A	180.66	462.17	0.0	1.0	
459-090-034-000	SF	A	180.66	462.17	0.0	1.0	
459-090-035-000	SF	A	180.66	462.17	0.0	1.0	
459-090-036-000	SF	A	180.66	462.17	0.0	1.0	
459-090-037-000	SF	A	180.66	462.17	0.0	1.0	
459-090-038-000	SF	A	180.66	462.17	0.0	1.0	
459-090-039-000	SF	A	180.66	462.17	0.0	1.0	
459-090-040-000	SF	A	180.66	462.17	0.0	1.0	
459-090-041-000	SF	A	180.66	462.17	0.0	1.0	
459-090-042-000	SF	A	180.66	462.17	0.0	1.0	
459-090-043-000	SF	A	180.66	462.17	0.0	1.0	
459-090-044-000	SF	A	180.66	462.17	0.0	1.0	
459-090-045-000	SF	A	180.66	462.17	0.0	1.0	
459-090-046-000	SF	A	180.66	462.17	0.0	1.0	
459-090-047-000	SF	A	180.66	462.17	0.0	1.0	
459-090-048-000	SF	A	180.66	462.17	0.0	1.0	
459-090-049-000	SF	A	180.66	462.17	0.0	1.0	
459-090-050-000	SF	A	180.66	462.17	0.0	1.0	
459-090-051-000	SF	A	180.66	462.17	0.0	1.0	
459-090-052-000	SF	A	180.66	462.17	0.0	1.0	
459-090-053-000	SF	A	180.66	462.17	0.0	1.0	
459-090-054-000	SF	A	180.66	462.17	0.0	1.0	
459-090-055-000	SF	A	180.66	462.17	0.0	1.0	
459-090-056-000	SF	A	180.66	462.17	0.0	1.0	
459-090-057-000	Exempt	A	-	-	0.0	0.0	
459-090-058-000	Exempt	A	-	-	0.0	0.0	
459-090-059-000	Exempt	A	-	-	0.0	0.0	
459-090-060-000	Exempt	A	-	-	0.0	0.0	
459-090-061-000	Exempt	A	-	-	0.0	0.0	
459-090-062-000	Exempt	A	-	-	0.0	0.0	
459-090-063-000	Exempt	A	-	-	0.0	0.0	
460-160-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 7 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 8 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 9 OLYMPUS HEIGHTS UNIT 1 S-11

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460-160-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 10 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 11 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 12 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 13 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 14 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 15 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 16 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 17 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 18 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 19 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 20 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 21 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 22 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 23 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 24 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-019-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 25 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-020-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 26 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-021-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 27 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-022-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 28 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-023-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 29 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-024-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 30 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-025-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 31 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-026-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 32 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-027-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 33 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-028-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 34 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-029-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 35 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-030-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 44 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-031-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 45 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-032-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 46 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-033-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 47 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-034-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 48 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-035-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 49 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-036-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 50 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-037-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 51 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-038-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 52 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-039-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 53 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-040-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 54 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-041-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 55 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-042-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 56 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-043-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 57 OLYMPUS HEIGHTS UNIT 1 S-11

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ASSESSOR PARCEL NUMBER	ASSESSMENT CLASSIFICATION	ZONE	CHARGE	MAXIMUM ASMT	ACREAGE	SF UNITS	LEGAL DESCRIPTION
460-160-044-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 58 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-045-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 59 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-046-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 60 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-047-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 61 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-048-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 62 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-049-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 63 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-050-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 64 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-051-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 65 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-052-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 66 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-053-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 67 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-054-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 68 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-055-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 69 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-056-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 70 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-057-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 71 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-058-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 72 OLYMPUS HEIGHTS UNIT 1 S-11
460-160-059-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 73 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 1 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 2 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 3 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 4 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 5 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 6 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 36 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 37 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 38 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 39 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 40 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 41 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 42 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 43 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 74 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 75 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 76 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 77 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-019-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 78 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-020-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 79 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-021-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 80 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-022-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 81 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-023-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 82 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-024-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 83 OLYMPUS HEIGHTS UNIT 1 S-11

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460-170-025-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 84 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-026-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 85 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-027-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 86 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-028-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 87 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-029-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 88 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-030-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 89 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-031-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 90 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-032-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 91 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-033-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 92 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-034-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 93 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-035-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 94 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-036-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 95 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-037-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 96 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-038-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 97 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-039-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 98 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-040-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 99 OLYMPUS HEIGHTS UNIT 1 S-11
460-170-041-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 100 OLYMPUS HEIGHTS UNIT 1 S-11
460-180-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 1 OLYMPUS HEIGHTS PHASE 2A
460-180-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 2 OLYMPUS HEIGHTS PHASE 2A
460-180-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 3 OLYMPUS HEIGHTS PHASE 2A
460-180-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 4 OLYMPUS HEIGHTS PHASE 2A
460-180-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 5 OLYMPUS HEIGHTS PHASE 2A
460-180-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 6 OLYMPUS HEIGHTS PHASE 2A
460-180-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 7 OLYMPUS HEIGHTS PHASE 2A
460-180-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 8 OLYMPUS HEIGHTS PHASE 2A
460-180-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 9 OLYMPUS HEIGHTS PHASE 2A
460-180-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 10 OLYMPUS HEIGHTS PHASE 2A
460-180-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 11 OLYMPUS HEIGHTS PHASE 2A
460-180-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 12 OLYMPUS HEIGHTS PHASE 2A
460-180-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 13 OLYMPUS HEIGHTS PHASE 2A
460-180-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 14 OLYMPUS HEIGHTS PHASE 2A
460-180-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 15 OLYMPUS HEIGHTS PHASE 2A
460-180-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 16 OLYMPUS HEIGHTS PHASE 2A
460-180-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 17 OLYMPUS HEIGHTS PHASE 2A
460-180-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 18 OLYMPUS HEIGHTS PHASE 2A
460-180-019-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 19 OLYMPUS HEIGHTS PHASE 2A
460-180-020-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 20 OLYMPUS HEIGHTS PHASE 2A
460-180-021-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 21 OLYMPUS HEIGHTS PHASE 2A
460-180-022-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 22 OLYMPUS HEIGHTS PHASE 2A
460-180-023-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 23 OLYMPUS HEIGHTS PHASE 2A

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460-180-024-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 24 OLYMPUS HEIGHTS PHASE 2A
460-180-025-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 25 OLYMPUS HEIGHTS PHASE 2A
460-180-026-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 26 OLYMPUS HEIGHTS PHASE 2A
460-180-027-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 27 OLYMPUS HEIGHTS PHASE 2A
460-180-028-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 28 OLYMPUS HEIGHTS PHASE 2A
460-180-029-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 29 OLYMPUS HEIGHTS PHASE 2A
460-180-030-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 30 OLYMPUS HEIGHTS PHASE 2A
460-180-031-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 31 OLYMPUS HEIGHTS PHASE 2A
460-180-032-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 32 OLYMPUS HEIGHTS PHASE 2A
460-180-033-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 33 OLYMPUS HEIGHTS PHASE 2A
460-180-034-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 34 OLYMPUS HEIGHTS PHASE 2A
460-180-035-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 35 OLYMPUS HEIGHTS PHASE 2A
460-180-036-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 36 OLYMPUS HEIGHTS PHASE 2A
460-180-037-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 37 OLYMPUS HEIGHTS PHASE 2A
460-180-038-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 38 OLYMPUS HEIGHTS PHASE 2A
460-180-039-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 39 OLYMPUS HEIGHTS PHASE 2A
460-180-040-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 40 OLYMPUS HEIGHTS PHASE 2A
460-180-041-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 41 OLYMPUS HEIGHTS PHASE 2A
460-180-042-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 42 OLYMPUS HEIGHTS PHASE 2A
460-180-043-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 43 OLYMPUS HEIGHTS PHASE 2A
460-180-044-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 44 OLYMPUS HEIGHTS PHASE 2A
460-180-045-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 45 OLYMPUS HEIGHTS PHASE 2A
460-180-046-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 46 OLYMPUS HEIGHTS PHASE 2A
460-180-047-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 47 OLYMPUS HEIGHTS PHASE 2A
460-180-048-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 48 OLYMPUS HEIGHTS PHASE 2A
460-180-049-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 49 OLYMPUS HEIGHTS PHASE 2A
460-180-050-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 50 OLYMPUS HEIGHTS PHASE 2A
460-180-051-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 51 OLYMPUS HEIGHTS PHASE 2A
460-180-052-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 52 OLYMPUS HEIGHTS PHASE 2A
460-180-053-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 53 OLYMPUS HEIGHTS PHASE 2A
460-180-054-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 54 OLYMPUS HEIGHTS PHASE 2A
460-180-055-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 55 OLYMPUS HEIGHTS PHASE 2A
460-180-056-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 56 OLYMPUS HEIGHTS PHASE 2A
460-190-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 57 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 58 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 59 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 60 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 61 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 62 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 63 OLYMPUS HEIGHTS PHASE 2B S-54

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460-190-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 64 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 65 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 66 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 67 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 68 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 69 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 70 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 71 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 72 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 73 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 74 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-019-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 75 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-020-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 76 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-021-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 77 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-022-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 78 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-023-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 79 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-024-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 80 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-025-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 81 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-026-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 82 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-027-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 83 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-028-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 84 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-029-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 85 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-030-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 86 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-031-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 87 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-032-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 88 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-033-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 89 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-034-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 90 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-035-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 91 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-036-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 92 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-037-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 93 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-038-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 94 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-039-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 95 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-040-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 96 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-041-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 97 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-042-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 98 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-043-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 99 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-044-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 100 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-045-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 101 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-046-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 102 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-047-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 103 OLYMPUS HEIGHTS PHASE 2B S-54

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460-190-048-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 104 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-049-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 105 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-050-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 106 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-051-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 107 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-052-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 108 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-053-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 109 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-054-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 110 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-055-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 111 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-056-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 112 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-057-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 113 OLYMPUS HEIGHTS PHASE 2B S-54
460-190-058-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 114 OLYMPUS HEIGHTS PHASE 2B S-54
461-011-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 1 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-011-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 2 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-011-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 3 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-011-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 4 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-011-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 5 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 6 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 7 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 8 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 9 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 12 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 13 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 14 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 15 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 16 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 17 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 18 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 19 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 21 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 22 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 23 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-019-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 24 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-020-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 25 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-021-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 26 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-022-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 27 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-023-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 28 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-024-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 29 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-025-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 30 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-026-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 31 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-027-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 32 OLYMPUS HEIGHTS #4 PH 2 MOR T-39

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461-012-028-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 33 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-029-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 34 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-030-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 35 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-031-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 36 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-032-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 37 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-033-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 38 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-034-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 39 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-035-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 40 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-036-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 41 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-037-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 42 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-038-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 43 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-039-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 44 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-040-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 45 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-041-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 46 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-042-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 47 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-043-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 48 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-044-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 49 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-045-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 50 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-046-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 51 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-047-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 52 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-048-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 53 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-049-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 54 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-050-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 55 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-051-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 56 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-052-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 57 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-053-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 58 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-054-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 59 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-055-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 60 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-056-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 61 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-057-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 62 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-058-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 63 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-059-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 64 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-060-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 65 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-061-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 66 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-062-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 67 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-063-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 68 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-064-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 69 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-065-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 70 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-066-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 71 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-067-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 72 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38

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461-012-068-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 73 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-069-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 74 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-070-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 75 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-071-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 76 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-072-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 77 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-073-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 78 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-074-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 79 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-075-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 80 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-076-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 81 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-077-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 82 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-078-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 83 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-012-081-000	SF Residential	D	148.84	155.42	0.0	1.0	LOTS 10 & 11 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-012-082-000	SF Residential	D	148.84	155.42	0.0	1.0	POR LOT 20 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 84 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-013-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 85 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-013-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 86 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-013-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 87 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-013-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 88 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-013-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 89 OLYMPUS HEIGHTS # 4 PH 1 (AMENDED) T-38
461-013-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 90 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-013-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 91 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-013-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 92 OLYMPUS HEIGHTS #4 PH 1 (AMENDED) T-38
461-013-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 93 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 94 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 95 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 96 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 97 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 98 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 99 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 100 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 101 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-019-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 102 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-020-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 103 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-021-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 104 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-022-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 105 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-023-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 106 OLYMPUS HEIGHTS #4 PH 3 MOR T-39
461-013-024-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 107 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-025-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 108 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-026-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 109 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-027-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 110 OLYMPUS HEIGHTS #4 PH 2 MOR T-39

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461-013-028-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 111 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-029-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 112 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-030-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 113 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-031-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 114 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-032-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 115 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-033-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 116 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-034-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 117 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-035-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 118 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-036-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 119 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-013-037-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 120 OLYMPUS HEIGHTS UNIT 4 T-12
461-013-038-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 121 OLYMPUS HEIGHTS #4 PH 2 MOR T-39
461-021-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 64 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 65 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 66 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 67 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 68 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 69 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 70 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 71 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 72 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 73 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 74 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 75 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 76 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 77 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 78 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 79 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 80 OLYMPUS HEIGHTS UNIT #3 T-25
461-021-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 81 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 82 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 83 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 84 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 85 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 86 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 87 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 88 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 89 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 90 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 91 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 92 OLYMPUS HEIGHTS UNIT #3 T-25

City of Roseville
Olympus Pointe Landscaping & Lighting District
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ASSESSOR PARCEL NUMBER	ASSESSMENT CLASSIFICATION	ZONE	CHARGE	MAXIMUM ASMT	ACREAGE	SF UNITS	LEGAL DESCRIPTION
461-022-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 93 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 94 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 95 OLYMPUS HEIGHTS UNIT #3 T-25
461-022-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 96 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 97 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 98 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 99 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 100 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 101 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 102 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 103 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 104 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 105 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 106 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 107 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 108 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 109 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 110 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 111 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 112 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 113 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 114 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-019-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 115 OLYMPUS HEIGHTS UNIT #3 T-25
461-023-020-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 116 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 117 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 118 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 119 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 120 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 121 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 122 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 123 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 124 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 125 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 126 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 127 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 128 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 129 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 130 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 131 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 132 OLYMPUS HEIGHTS UNIT #3 T-25

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ASSESSOR PARCEL NUMBER	ASSESSMENT CLASSIFICATION	ZONE	CHARGE	MAXIMUM ASMT	ACREAGE	SF UNITS	LEGAL DESCRIPTION
461-024-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 133 OLYMPUS HEIGHTS UNIT #3 T-25
461-024-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 134 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-001-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 1 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-002-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 2 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-003-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 3 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-004-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 4 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-005-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 5 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-006-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 6 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-007-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 7 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-008-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 8 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-009-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 9 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-010-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 10 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-011-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 11 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-012-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 12 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-013-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 13 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-014-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 14 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-015-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 15 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-016-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 16 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-017-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 17 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-018-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 18 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-019-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 19 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-020-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 20 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-021-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 21 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-022-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 22 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-023-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 23 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-024-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 24 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-025-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 25 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-026-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 26 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-027-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 27 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-028-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 28 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-029-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 29 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-030-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 30 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-031-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 31 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-032-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 32 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-033-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 33 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-034-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 34 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-035-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 35 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-036-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 36 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-037-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 37 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-038-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 38 OLYMPUS HEIGHTS UNIT #3 T-25

City of Roseville
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ASSESSOR PARCEL NUMBER	ASSESSMENT CLASSIFICATION	ZONE	CHARGE	MAXIMUM ASMT	ACREAGE	SF UNITS	LEGAL DESCRIPTION
461-025-039-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 39 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-040-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 40 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-041-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 41 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-042-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 42 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-043-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 43 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-044-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 44 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-045-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 45 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-046-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 46 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-047-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 47 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-048-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 48 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-049-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 49 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-050-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 50 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-051-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 51 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-052-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 52 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-053-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 53 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-054-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 54 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-055-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 55 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-056-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 56 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-057-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 57 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-058-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 58 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-059-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 59 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-060-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 60 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-061-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 61 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-062-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 62 OLYMPUS HEIGHTS UNIT #3 T-25
461-025-063-000	SF Residential	D	148.84	155.42	0.0	1.0	LOT 63 OLYMPUS HEIGHTS UNIT #3 T-25
N456-330-004-000	Non Residential	A	-	-	0.0	0.0	
N456-330-005-000	Non Residential	A	-	-	0.0	0.0	
N456-330-006-000	Non Residential	A	-	-	0.0	0.0	

Summary Fields	Value
ACTIVE PARCELS	868
LEVIED PARCELS	826
CHARGE	199,163.14
MAXIMUM ASMT	404,024.05
ACREAGE	530.80
SF UNITS	654

RESOLUTION NO. 20-159

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Riverside Avenue Landscaping and Lighting District (hereafter referred to as the “District”) pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”), that provides for levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of street lighting, landscaping, and all appurtenant facilities and operations related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter “Engineer”) for the purpose of assisting with the establishment of the assessments, the annexation of territory, and to prepare and file an Engineer’s Annual Levy Report (hereinafter referred to as the “Engineer’s Report”) with the City Clerk in accordance with the act, and in accordance with the California Constitution, Articles XIII C and XIII D;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 Engineer’s Report: The City Council hereby orders the Engineer to prepare and file with the City Clerk the Engineer’s Report concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22622 (d)* of the Act.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: maintenance, servicing, administration and operation of landscape, lighting and streetscape improvements, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

RESOLUTION NO. 20-159

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-160

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Riverside Avenue Landscaping and Lighting District (hereafter referred to as the “District”), and initiated proceedings for Fiscal Year 2020/2021, pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”) that provides for the levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of all improvements and facilities related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services for the purpose of assisting with the Annual Levy of the District, and to prepare and file a report with the City Clerk in accordance with the Act; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, PURSUANT TO CHAPTER 3, SECTION 22624 OF THE ACT, AS FOLLOWS:

Section 1 Intention: The City Council hereby declares that it is its intention to seek the Annual Levy of the District pursuant to the Act, over and including the land within the District boundary, and to levy and collect assessments on all such land to pay the annual costs of the improvements.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: maintenance, servicing, administration and operation of landscape, lighting and streetscape improvements, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

Section 3 Boundaries and Designation: The boundaries of the District are described as the boundaries previously defined in the formation documents of the original District. The District is known and designated as:

“Riverside Avenue Landscaping and Lighting District”

Section 4 Proposed Assessment Amounts: The proposed assessments are outlined in the Report. District Assessments are calculated in accordance with the method of apportionment established for the District and do not exceed the assessment rates and annual inflationary adjustment previously authorized by City Council and approved by the property owners in accordance with the provisions of the California State Constitution, Article XIID.

Section 5 Public Hearing(s): The City Council hereby declares its intention to conduct a Public Hearing annually concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22626* of the Act.

Section 6 Notice: The City Clerk shall give notice of the time and place of the Public Hearing by causing the publishing of this Resolution once in a local newspaper not less than ten (10) days before the date of the hearing and by posting a copy of this Resolution on the official bulletin board customarily used by the City Council for the posting of notices.

Section 7 Time and Place of Public Hearing: Notice is hereby given that a Public Hearing on these matters will be held by the City Council on **Wednesday, May 20, 2020 at 6:00 p.m.**, or as soon thereafter as feasible in the regular meeting chambers located at 311 Vernon Street, Roseville, California.

RESOLUTION NO. 20-160

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-161

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the "City Council") does resolve as follows:

WHEREAS, the City Council has, by previous Resolutions, ordered the preparation of an Annual Levy Report (hereafter referred to as the "Engineer's Report") for the district known and designated as the Riverside Avenue Landscaping and Lighting District (hereafter referred to as the "District"), pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereinafter referred to as the "Act"); and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter "Engineer"), for the purpose of assisting with the establishment of the assessments and to prepare and file an Engineer's Report with the City Clerk in accordance with the Act, and in accordance with the requirements of the California Constitution, Articles XIIC and XIID; and,

WHEREAS, there has now been presented to this City Council the Engineer's Report as required by *Chapter 1, Article 4, Section 22566* of said Act; and,

WHEREAS, this City Council has carefully examined and reviewed the Engineer's Report as presented, and is preliminarily satisfied with the District, each and all of the budget items and documents as set forth therein, and is satisfied that the assessments, on a preliminary basis, have been spread in accordance with the benefits received from the improvements, operation, maintenance and services to be performed within the District, as set forth in said Engineer's Report; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 That the above recitals are all true and correct.

Section 2 That the Engineer's Report as presented, consists of the following:

- a. A Description of Improvements
- b. The Annual Budget (Costs and Expenses of Maintenance, Services, Operations and District Administration)
- c. The Assessment Roll containing the Fiscal Year 2020/2021 Levy for each Assessor Parcel within the District

Section 3 The Engineer's Report is hereby approved on a preliminary basis, and ordered to be filed in the Office of the City Clerk as a permanent record and to remain open to public inspection.

Section 4 That the City Clerk shall certify to the passage and adoption of this Resolution, and the minutes of this meeting shall so reflect the presentation of the Engineer's Report.

RESOLUTION NO. 20-161

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville



City of Roseville

Riverside Avenue Landscaping and Lighting District

2020/21 ENGINEER'S ANNUAL LEVY REPORT

Intent Meeting: May 6, 2020
Public Hearing: May 20, 2020

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ENGINEER'S REPORT AFFIDAVIT

Establishment of Annual Rates and Charges for the:

Riverside Avenue

Landscaping and Lighting District

City of Roseville

Placer County, State of California

This Report describes the District and any relevant zones therein, including the improvements, budgets, parcels and assessments to be levied for Fiscal Year 2020/21 as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Placer County Assessor's maps for a detailed description of the lines and dimensions of parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the City Council.

Dated this 15th day of APRIL, 2020

Willdan Financial Services
Assessment Engineer
On Behalf of the City of Roseville

By: Mickey Ashley

Mickey Ashley
Senior Project Analyst
District Administration Services

By: Richard Kopecky

Richard Kopecky
R. C. E. # 16742



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I. OVERVIEW

A. INTRODUCTION

The City of Roseville (“City”) annually levies and collects special assessments in order to maintain the improvements within the Riverside Avenue Landscaping and Lighting District (“District”). The District was formed in January of 2007 and is levied annual assessments pursuant to *the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the California Streets and Highways Code* (“1972 Act”).

The Engineer’s Report (“Report”) describes the District, any new annexations, changes to the District, and the proposed assessments for the period of July 1, 2020 through June 30, 2021. The special benefit assessments are based on historical and estimated costs to maintain the District improvements. These assessments, which provide a direct and special benefit to properties within the District, will provide funding for the operation and maintenance of District improvements.

The word “parcel,” for the purposes of this Report, refers to an individual property assigned its own Assessor’s Parcel Number (“APN”) by the Placer County Assessor’s Office. The Placer County Auditor/Controller uses Assessor’s Parcel Numbers and specific Tax Code Accounts, to identify on the County’s tax roll, properties assessed for special district benefit assessments.

Following approval of the Report, the City Council will by resolution, order the improvements to be made and confirm the levy and collection of assessments herein pursuant to the Act. The assessment rates and method of apportionment described in this Report as approved or modified by the City Council defines the assessments to be applied to each parcel within the District for Fiscal Year (“FY”) 2020/21. The assessments as approved will be submitted to the Placer County Auditor/Controller to be included on the property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the Current Fiscal Year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved by the City Council.

B. COMPLIANCE WITH CURRENT LEGISLATION

The City Council, pursuant to the provisions of the “Landscaping and Lighting Act of 1972”, being Division 15, Part 2 of the Streets and Highways Code of the State of California, beginning with Section 22500 (the “1972 Act”); Article XIID of the Constitution of the State of California (“Article XIID”); and the Proposition 218 Omnibus Implementation Act, beginning with Government Code Section 53750 (the “Implementation Act”) (the 1972 Act, Article XIID and the Implementation Act are referred to collectively as the “Assessment Law”) initiated proceedings for the formation of the District on November 15, 2006 and to levy and collect annual assessments against lots and parcels within the District for FY 2007/08. On January 17, 2007, pursuant to Assessment Law, the City conducted a Public Hearing and tabulated the returned ballots. The City determined that a majority protest did not exist and approved the District’s maximum assessment rate and annual inflationary adjustment factor.

Pursuant to the Act, an annual Public Hearing is conducted by the City Council to accept property owner and public comments, to review the Engineer’s Annual Levy Report prior to approving the annual assessments to be levied on the County tax rolls. The assessments described in this Report have been prepared in accordance with the Act and Assessment Law.

C. DESCRIPTION OF DISTRICT BOUNDARIES

The proposed territory within the District consists of all lots, parcels and subdivisions of land as shown on the Boundary Map titled “Boundary Map of Riverside Avenue Landscaping and Lighting District” contained within this report in Appendix A-1.

The District is bounded by Douglas Boulevard to the north, Darling Way to the south and includes parcels that front Riverside Avenue. It is centrally located between Interstate 80 and Downtown Roseville and is east of the Union Pacific Railroad.

The District currently has a mix of different types of land uses including automotive related retail and car lots, community/neighborhood retail, offices, services, and residential units.

D. IMPROVEMENTS AUTHORIZED BY THE 1972 ACT

As applicable or may be applicable to a proposed District, the 1972 Act defines improvements to mean one or any combination of the following:

- The installation or planting of landscaping.
- The installation or construction of statuary, fountains, and other ornamental structures and facilities.
- The installation or construction of public lighting facilities.

- The installation or construction of any facilities which are appurtenant to any of the foregoing or which are necessary or convenient for the maintenance or servicing thereof, including, but not limited to, grading, clearing, removal of debris, the installation or construction of curbs, gutters, walls, sidewalks, or paving, or water, irrigation, drainage, or electrical facilities.
- The maintenance or servicing, or both, of any of the foregoing.
- The acquisition of any existing improvement otherwise authorized pursuant to this section.

Incidental expenses associated with the improvements including, but not limited to:

- The cost of preparation of the report, including plans, specifications, estimates, diagram, and assessment;
- The costs of printing, advertising, and the publishing, posting and mailing of notices;
- Compensation payable to the County for collection of assessments;
- Compensation of any engineer or attorney employed to render services;
- Any other expenses incidental to the construction, installation, or maintenance and servicing of the improvements;
- Any expenses incidental to the issuance of bonds or notes pursuant to Section 22662.5.
- Costs associated with any elections held for the approval of a new or increased assessment.

The 1972 Act defines "Maintain" or "maintenance" to mean furnishing of services and materials for the ordinary and usual maintenance, operation, and servicing of any improvement, including:

- Repair, removal, or replacement of all or any part of any improvement.
- Providing for the life, growth, health, and beauty of landscaping, including cultivation, irrigation, trimming, spraying, fertilizing, or treating for disease or injury.
- The removal of trimmings, rubbish, debris, and other solid waste.
- The cleaning, sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Furthermore, the 1972 Act specifies that where the cost of improvements (other than maintenance and operations) is greater than can be conveniently raised from a single annual assessment, an assessment to be levied and collected in annual installments. In that event, the governing body may choose to do any of the following:

- Provide for the accumulation of the moneys in an improvement fund until there are sufficient moneys to pay all or part of the cost of the improvements.

- Provide for a temporary advance to the improvement fund from any available and unencumbered funds of the local agency to pay all or part of the cost of the improvements and collect those advanced moneys from the annual installments collected through the assessments.
- Borrow an amount necessary to finance the estimated cost of the proposed improvements. The amount borrowed, including amounts for bonds issued to finance the estimated cost of the proposed improvements.

E. DESCRIPTION OF THE IMPROVEMENTS AND MAINTENANCE

The District, through the levy of special assessments, is to provide funding for ongoing maintenance, operation and servicing of landscaping and lighting improvements located within the public rights-of-ways and dedicated easements located within the District. These improvements may include, but are not limited to, all materials, equipment, utilities, labor, and appurtenant facilities related to the ongoing maintenance of the improvements. The improvements to be maintained and services are generally described as follows:

Landscaping Improvements

The general landscaping improvements in the District are to be consistent with the improvements on Vernon Street located north of the District, which intersects Riverside Avenue. As a gateway to downtown Roseville, Riverside Avenue's compatibility with Vernon Street links the downtown area and Riverside Gateway area together.

The landscaping improvements have been designed to enhance the area within the District and may include, but are not limited to ground cover, shrubs and plants, trees, irrigation and drainage systems, ornamental lighting, masonry walls or other fencing, hardscape improvements, monuments and landmarks, mid-block bulbs, bulb-outs, and associated appurtenant located within the street rights-of-way and public areas within the District. Specifically, the proposed landscape improvement areas for this District are:

- Landscaping and hardscape improvements within the public rights-of-way of the streets within the District including, but not limited to, Riverside Avenue including the corners of Riverside Avenue and Second Street, Third Street, Fourth Street, Fifth Street, Sixth Street, Darling Way, Fern Street, Cherry Street, and Bonita Street.
- Decorative banners along Riverside Avenue.
- Transit facilities including bus stop seating and decorative shelters.
- Roundabout improvements including plantings, paving, and landmark feature located at the intersection of Vernon St., Douglas Blvd., and Riverside Ave.
- A Gateway feature located at the intersection of Darling Way and Riverside Avenue.

- Various amenities associated with the landscape improvements and public areas within the District, including, but not limited to, trash receptacles, street furniture, bike racks, entry signs, sidewalks, fencing, and retaining walls.

Specifically not included as District improvements are those improvements located on private property, improvements and facilities that are outside the boundaries of the District and/or area funded by other sources available to the City.

Public Lighting Improvements

The lighting improvements may include, but are not limited to, the cost of providing, maintaining and servicing of lighting fixtures, poles, meters, conduits, electrical cable, and associated appurtenant facilities associated with:

- Lighting facilities within the landscaped areas and public areas including safety lights, security lights or ornamental lights installed as part of the District improvements; and
- Public street light improvements located on the streets within the District. Specifically excluded from the assessment are the street light energy costs. These costs are to be paid for by the City from other revenue sources.

Detailed maps and descriptions of the location and extent of the specific improvements to be maintained by the District are on file in the Office of Public Works and by reference are made part of this Report.

Description of Maintenance and Services

Maintenance means the furnishing of services and materials for the ordinary and usual maintenance, operation and servicing of landscaping and street lighting improvements facilities and appurtenant facilities, including repair, removal or replacement of all or part of any of the landscaping and street lighting improvements, or appurtenant facilities; providing for the life, growth, health and beauty of landscaping improvements including cultivation, irrigation, trimming, mowing, spraying, fertilizing and treating for disease or injury; the removal of trimmings, rubbish, debris and other solid waste; and the cleaning sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Servicing means the furnishing of water and electricity for the irrigation of the landscape improvements or appurtenant facilities and the furnishing of electric current or energy for the operation of the landscaping improvements or appurtenant facilities. The street lighting improvements shall be maintained to provide adequate illumination; however, the City will be paying the actual energy costs of the streetlights.

II. METHOD OF APPORTIONMENT

A. GENERAL

The Implementation Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements, which include the construction, maintenance, and servicing of landscaping improvements, streetlights and traffic signals.

Streets and Highways Code Section 22573 requires that maintenance assessments be levied according to benefit rather than the assessed value.

“The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements.”

In addition, Article XIID and the Implementation Act require that a parcel's assessment may not exceed the reasonable cost for the proportional special benefit conferred to that parcel. Article XIID and the Implementation Act further provides that only special benefits are assessable, and the City must separate the general benefits from the special benefits. They also require that publicly owned properties that specifically benefit from the improvements be assessed.

B. SPECIAL BENEFIT ANALYSIS

In conjunction with the provisions of the 1972 Act, the California Constitution Article XIID addresses several key criteria for the levy of assessments, notably:

Article XIID Section 2d defines District as follows:

“District means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service”;

Article XIID Section 2i defines Special Benefit as follows:

“Special benefit” means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute “special benefit.”

Article XIID Section 4a defines proportional special benefit assessments as follows:

“An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.”

This District was formed to establish and provide for the improvements that enhance the presentation of the surrounding properties and developments. These improvements will directly benefit the parcels to be assessed within the District. The assessments and method of apportionment is based on the premise that the assessments will be used to construct and install landscape and lighting improvements within the District as well as provide for the annual maintenance of those improvements, and the assessment revenues generated by District will be used solely for such purposes.

The costs of the proposed improvements have been identified and allocated to properties within the District based on special benefit. The improvements to be provided by this District and for which properties will be assessed have been identified as an essential component and local amenity that provides a direct reflection and extension of the properties within the District which the property owners and residents have expressed a high level of support.

The method of apportionment (method of assessment) set forth in the Report is based on the premise that each assessed property receives special benefits from the landscape and lighting improvements within the District, and the assessment obligation for each parcel reflects that parcel's proportional special benefits as compared to other properties that receive special benefits.

To identify and determine the proportional special benefit to each parcel within the District, it is necessary to consider the entire scope of the improvements provided as well as the properties that benefit from those improvements. The improvements and the associated costs described in this Report, have been carefully reviewed and have been identified and allocated based on a benefit rationale and calculations that proportionally allocate the net cost of only those improvements determined to be of special benefit to properties within the District. The various public improvements and the associated costs have been identified as either “general benefit” (not assessed) or “special benefit”.

Proper maintenance and operation of parkway landscaping and streetlights provides special benefit to adjacent properties by providing community character, security, safety and vitality. In addition, these improvements will enhance the ability of property owners to attract and maintain customers as well as increase the viability of commercial development.

Landscaping Special Benefit

Landscaping and appurtenant facilities, if well maintained, provide beautification, shade and enhancement of the desirability of the surroundings, and therefore increase property value. Specifically, they provide a sense of ownership and a common theme in the community providing aesthetic appeal and increased desirability of properties.

Landscaping provides special benefit to those developments that are directly adjacent to the public streets.

Landscaping General Benefit

The Improvements were installed to directly benefit the property owners in the District to enhance business and development opportunities. Therefore, it has been determined that there are no general benefits associated with the landscaping improvements.

Lighting Special Benefit

The operation, maintenance and servicing of lighting along local streets and arterial streets of a development provide the following special benefits:

- Improved security of lots and parcels along the perimeter of the development;
- Improved nighttime visibility for the local access of emergency vehicles; and
- Improved safety and traffic circulation to and from parcels.

Street Lights General Benefit

Similar to the landscaping improvements described above, the Improvements were installed to directly benefit the property owners in the District to enhance business and development opportunities. Therefore, it has been determined that there are no general benefits associated with lighting improvements.

C. ASSESSMENT METHODOLOGY

To establish the special benefit to the individual parcels within the District, a formula that spreads the costs of the maintenance based on the special benefit must be established. The improvements have been reviewed and a formula has been established to apportion the maintenance costs based on benefit.

The method of assessment is based on the front footage of each parcel located within the District. The parcel's Front Footage was determined based on Assessor Parcel maps or other sources. Only Front Footage on Riverside Avenue was used.

Based on the above formula, the FY 2007/08 maximum assessment rate approved on January 17, 2007 through a property owner balloting (the "Initial

Assessment Rate” or the “Base Year Maximum Assessment Rate”) is \$6.45 per each foot of frontage.

The following formulas were used to first calculate the District’s Initial Assessment Rate and then each parcel’s FY 2007/08 assessment (proportional benefit):

Step 1:

$$\text{Balance to Levy} \div \text{Total Front Footage} = \text{Maximum Front Footage Rate}$$

Step 2:

$$\text{Parcel Front Footage} \times \text{Maximum Front Footage Rate} = \text{Maximum Assessment}$$

The Total Front Footage was the sum of all the Front Feet within the District. The Initial Assessment Rate per Front Foot was established by taking the total cost of improvements (Balance to Levy) and dividing that amount by the Total Front Footage within the District. The Initial Assessment Rate per Front Foot, which is also the FY 2007/08 Maximum Front Footage Rate, is then applied back to each individual parcel’s Front Footage to determine the parcel’s proportionate special benefit and assessment obligation (The FY 2007/08 Maximum Assessment).

D. ASSESSMENT RANGE FORMULA

The purpose of establishing an Assessment Range Formula is to provide for reasonable increases and inflationary adjustment to annual assessment rates without requiring the District to go through the requirements of Proposition 218 in order to get a small increase in assessments. This District provides for an annual adjustment to the Maximum Assessment Rate of the lesser of the percentage change in the Local Consumer Price Index of the San Francisco-Oakland-San Jose Area for All Urban Consumers (the “CPI”) or three percent (3%) (the “Escalation Percentage”). The CPI in this adjustment shall be determined through CPI data from the Bureau of Labor Statistics from December to December, beginning with the period from December 2006 to December 2007.

The Assessment Range Formula shall be applied to all future assessments within the District beginning in fiscal year 2008/09. Generally, if the proposed annual assessment rate for the current fiscal year is less than or equal to the calculated Maximum Assessment Rate, then the proposed annual assessment is not considered an increased assessment. The Maximum Assessment Rate is equal to the FY 2007/08 Maximum Assessment Rate, which was approved on January 17, 2007 through a property owner balloting (the “Initial Assessment Rate” or “Base Year Assessment Rate”) and adjusted annually by the Escalation Percentage.

Beginning in the second fiscal year (Fiscal Year 2008/09) and each fiscal year thereafter, the Maximum Assessment Rate would be recalculated, and a new Maximum Assessment Rate established within the District.

The Maximum Assessment Rate is adjusted annually and is calculated independent of the District's annual budget and proposed annual assessment. Any proposed annual assessment is not considered an increased assessment, even if the proposed assessment is greater than the assessment applied in the prior fiscal year.

Although the Maximum Assessment Rate will increase each year, the actual assessment rate may remain unchanged. The Maximum Assessment Rate adjustment is designed to establish a reasonable limit on assessments. The Maximum Assessment Rate calculated each year does not require or facilitate an increase to the annual assessment rate and neither does it restrict assessments to the adjusted maximum amount. If the budget and assessment for the fiscal year do not require an increase, or the increase is less than the adjusted Maximum Assessment Rate, then the required budget and assessment may be applied without additional property owner balloting. If the budget and assessments calculated requires an increase greater than the adjusted Maximum Assessment, then the assessment is considered an increased assessment and would be subject to balloting.

III. DISTRICT BUDGET

A. 2020/21 BUDGET

DESCRIPTION	AMOUNTS
<u>DIRECT COSTS</u>	
Contract Maintenance - Landscaping	\$7,350.00
Repair & Maintenance - Landscaping	9,720.00
Repair & Maintenance - Lighting	1,000.00
Repair and Maintenance - Streetscape and Signage	2,000.00
Utilities	9,085.00
Rehab Reserve Expenditures	<u>25,000.00</u>
Total Direct Costs	\$54,155.00
<u>ADMINISTRATION COSTS</u>	
City Administration	\$840.00
Contract Administration - Park's Dept	1,738.00
County Auditor Fees	430.15
Consulting & Professional Services	3,570.00
Consultant Incidental Expenses	15.00
Public Hearing Publishing Costs	<u>875.00</u>
Total Administrative Costs	\$7,468.15
Total Direct and Administration Costs	\$61,623.15
<u>BUDGET ADJUSTMENTS</u>	
Replenishment/(Use) of Operating Reserve	\$6,391.60
Contribution for /(Use of) Rehab Reserve	(25,000.00)
Rounding Adjustment	<u>(0.95)</u>
Total Adjustments	(\$18,609.35)
BALANCE TO LEVY	\$43,013.80

Fund balance information is reported in Section C on the following page.

B. 2020/21 ASSESSMENT RATES

DESCRIPTION	AMOUNTS
<u>FY 2020/21 ASSESSMENT RATES</u>	
Number of Assessable Parcels	75
Total Assessable Front Footage	4,865.76
Assessment Rates	
Applied Assessment Rate per each Foot of Frontage	8.840292
Maximum Assessment Rate per each Foot of Frontage	8.840294
Potential Maximum Assessment	\$43,014.75

C. 2020/21 FUND BALANCE INFORMATION

DESCRIPTION	AMOUNTS
<u>OPERATING RESERVE</u>	
Beginning Operating Reserve Balance 7-1-2020 (est.)	(\$8,732.30)
add: Replenish from FY 20/21 Levy	6,391.60
less: Use for FY 20/21 Expenses	
Transfer from/(to) the Rehab Reserve	29,418.20
Ending Operating Reserve Balance 6-30-2021 (est.)	\$27,077.50
<u>REHABILITATION RESERVE</u>	
Beginning Rehab Reserve Balance 7-1-2020 (est.)	120,050.32
add: Collect from FY 20/21 Levy	
less: Use for FY 20/21 Rehab Projects	(25,000.00)
Transfer from/(to) the Operating Reserve	(29,418.20)
Ending Rehab Reserve Balance 6-30-2021 (est.)	\$65,632.12

D. DESCRIPTION OF BUDGET ITEMS

Description of the terms used in the preceding Budget, Assessment Rates and Fund Balance tables are listed below:

BUDGET:

DIRECT COSTS

Contract Maintenance - Landscaping - Includes all regularly scheduled contract labor, materials, supplies and equipment required to properly maintain and ensure the satisfactory condition or maintenance of all landscaping improvements, irrigation and related drainage systems, as well as maintenance of appurtenant facilities (the “improvements”).

Repair & Maintenance - Landscaping - This line item includes repairs that are generally unforeseen and not normally included in the annual maintenance contract costs. This may include repair of damaged amenities due to vandalism, storms, etc.

Repair & Maintenance – Lighting - This line item includes bulb replacement and repairs that are generally unforeseen. This may include repair of damaged amenities due to vandalism, storms, etc.

Repair & Maintenance - Streetscape/Signage - This line item includes repairs that are generally unforeseen and not normally included in the annual maintenance contract costs. This may include repair of damaged amenities due to vandalism, storms, etc.

Utilities - The furnishing of water and electricity required for the operation and maintenance of the improvements.

Rehab Reserve Project Expenditures – Expected costs for installation, replacement or planned upgrades of District improvements for the current year that were previously funded or accumulated in the Rehabilitation Reserve. The Rehabilitation Reserve is used to accumulate funds for costs associated with the future rehabilitation or replacement of District improvements that cannot be conveniently raised from a single year’s assessment. If zero, this line item may not be shown in the budget.

ADMINISTRATION COSTS

City Administration – Estimated costs incurred by the City Finance Department and other Departments in preparing the annual budget for the Engineer’s Report, together with other financial information required to determine the annual

assessment. These costs would also include the preparation, posting and publishing of public notices required for City Council action relating to the District, as well as costs to perform legal review of documents.

Contract Administration – Park’s Dept – Estimated Costs of Park and Recreation Department staff to coordinate and oversee the maintenance contracts and overall repair and maintenance of the District. This amount also includes the cost of the Department’s estimates and analysis of certain budget items, estimated costs and useful lives of certain District Improvements.

County Auditor Fees - A fee of 1% of the total levy amount that is charged to the District by the County for placing assessments on property tax bills.

Consulting and Professional Services – Includes the costs and expenses of contracting with various professionals to provide legal, engineering and district administration services directly related to the District, including the calculation of the annual assessment amounts and the preparation of the Engineer’s Report.

Public Hearing Publishing Costs –Includes the out of pocket costs to publish public notices required for City Council action relating to the District.

Total Direct and Administration Costs – The total expected costs of the District.

BUDGET ADJUSTMENTS

Replenishment/(Use) of Operating Reserve – A “Replenishment” increases the levy in order to replenish the Operating Reserve. On the other hand, a “Use” of the Operating Reserve decreases the levy by drawing funds from the Operating Reserve for current year expenditures. If zero, this line item may not be shown in the budget. Further information regarding the function of the Operating Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Contribution for /(Use of) Rehab Reserve — A “Contribution” increases the levy in order to generate funding for the Rehabilitation Reserve. This reserve allows for the accumulation of funds for the possible rehabilitation projects or replacements in future years. On the other hand, a “Use of” of the Rehabilitation Reserve provides current year funding of rehabilitation projects or replacements from available funds within the Rehabilitation Reserve. If zero, this line item may not be shown in the budget. Further information regarding the function of the Rehabilitation Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Rounding Adjustment – The necessary rounding adjustment(s) due to limitations of the County property tax system that requires even penny levy amounts to be placed on the secured tax roll.

BALANCE TO LEVY - This is the total amount to be levied and collected through assessments for the current fiscal year for each zone. The Balance to Levy represents the sum of the total District costs together with any applicable adjustments to the budget as described above.

ASSESSMENT RATES:

APPLIED ASSESSMENT RATE

Number of Assessable Parcels - The total number of parcels that are expected to be assessed. Non-assessable lots or parcels include government-owned land, public utility-owned property, land principally encumbered by public rights-of-way or easements, common areas, and/or parcels within the boundaries of the District currently do not benefit from the improvements and are therefore not assessed.

Total Assessable Front Footage - The total amount of assessable Front Footage within the District in accordance with the Method of Assessment Section of this Report.

Applied Assessment Rate - The assessment rate to be applied to the front footage of each non-exempt parcel within the District for the current fiscal year.

Maximum Assessment Rate - The Maximum Assessment Rate per front foot for the current fiscal year.

Potential Maximum Assessment – The total amount that can be assessed against all non-exempt District parcels for the current fiscal year based upon the expected assessable front footage within the District.

FUND BALANCE INFORMATION:

OPERATING RESERVE

Beginning Operating Reserve Balance 7-1-2020 (est.) - The anticipated beginning balance of cash and receivables net of any unpaid prior year obligations for each Zone. These beginning balances shall be used to fund each Zone's expenditures from July 1, 2020 to December 31, 2020, as the Operating Reserve is required to compensate for the approximate six-month delay between the start of the District's fiscal year and the receipt of the collections from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

Replenish from FY 20/21 Levy – This amount is added to the levy in order to replenish the Operating Reserve. Due to the six-month delay from the District's receipt of assessment collections, the Operating Reserve balance shall be

sufficiently funded to provide for expenditures from the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Expenses – The amount of the Operating Reserve to be used to fund FY 20/21 expenses. Portions of the Operating Reserve may be slated for current year expenditures in order to reduce the Ending Operating Reserve Balance to an amount no greater than the expected District costs for the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Rehab Reserve — The amount of Operating Reserve monies to be transferred to or from the Rehabilitation Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Operating Reserve Balance 6-30-2021 (est.) - This amount represents the anticipated Operating Reserve balance/(deficit) for each Zone as of June 30, 2021. The size of each Zone's Operating Reserve is limited by Streets and Highways Code 22569 which states that an Operating Reserve shall not exceed the estimated costs of maintenance, service and incidental expenses from the first day of the fiscal year (July 1) to the date that the Agency expects to receive the first apportionment of collections from the County, which is estimated to be December 31. Therefore, each Zone may retain an Operating Reserve amounting to the District's first six-months of expenses in order to meet ongoing obligations until the first collections are received from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

REHABILITATION RESERVE

Beginning Rehab Reserve Balance 7-1-2020 (est.) — The projected balance of funds in the Rehabilitation Reserve as of July 1, 2020. Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

Collect from FY 20/21 Levy — This amount is added to the levy to accumulate funding of future year rehabilitation projects, replacements, restorations or upgrades of District improvements. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Rehab Projects – The amount of Rehabilitation Reserve monies expected to be transferred out of the Rehabilitation Reserve to fund the costs of installation, replacement or planned upgrades of District improvements for the current year. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Operating Reserve — The amount of Rehabilitation Reserve monies to be transferred to or from the Operating Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Rehab Reserve Balance 6-30-2021 (est.) - The projected balance of funds in the Rehabilitation Reserve as of June 30, 2021. These funds shall be used to provide for future year rehabilitation projects, replacements, restorations or upgrades of District improvements which cannot be conveniently raised from a single year's assessment.

E. REHABILITATION RESERVE – CAPITAL IMPROVEMENT PLAN

Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

A five-year Capital Improvement Plan showing projected expenditures related to the rehabilitation, restoration and/or replacement of District improvements, and other allowable costs, is shown below.

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Grid tree pruning, removal and replacement of declining trees		\$1,400	\$1,400	\$1,400	\$1,400	\$5,600
Improve street furniture, trash receptacles, bike racks, bus stop shelters					\$2,000	\$2,000
Replace plants, landscaping, irrigation and/or drainage systems		\$1,500	\$11,500	\$1,500	\$1,500	\$16,000
Replace public street lights, lighting fixtures, poles/meters, safety, security, ornamental lights		\$7,000	\$7,000	\$7,000	\$7,000	\$28,000
Replace entry signs and decorative banners and hardware		\$2,000	\$2,000	\$8,032	\$2,000	\$14,032
\$25k Insurance deductible to repair/replace train monument if demolished	\$25,000					\$0
Total Projected Expenditures	\$25,000	\$11,900	\$21,900	\$17,932	\$13,900	\$65,632

From time to time, funds held in a Rehabilitation Reserve may be needed to respond to changing needs due to the condition of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the District's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and/or operation of the improvements.

APPENDIX A – DISTRICT BOUNDARY MAP

The boundary map for the District has previously been submitted to the Clerk of the City in the format required under the Act and is, by reference, hereby made part of this Report. These District Boundary Maps are available for inspection at the office of the City Clerk during normal business hours.

For general reference purposes, a summary of the District's Boundaries is presented herein.

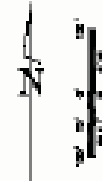
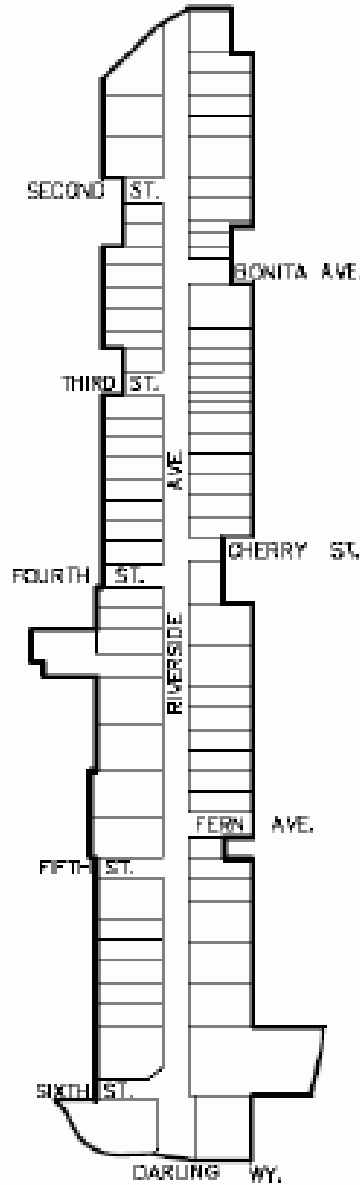
SHEET 1 OF 1

MAP OF PROPOSED BOUNDARIES OF RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT

CITY OF INDIANAPOLIS
COUNTY OF PLAZA
STATE OF CALIFORNIA

IN WITNESS WHEREOF, THE CITY CLERK HAS HEREunto set her hand and the seal of the City of Indianapolis, Indiana, this 1st day of November, 2010.

CITY CLERK
CITY OF INDIANAPOLIS



LEGEND
PROPOSED BOUNDARY

KOPPEL & GRUBER
PLANNING & DESIGN

100 N. 10th Street
Indianapolis, IN 46204
(317) 634-1100 FAX (317) 634-1101

10/1/10 10/1/10

APPENDIX B — 2020/21 ASSESSMENT ROLL

Parcel identification, for each lot or parcel within the District, shall be the parcel as shown on the Placer County Assessor's map for the year in which this Report is prepared.

A listing of parcels to be assessed within this District, along with the proposed assessment amounts, shall be submitted to the City Clerk, under a separate cover, and by reference is made part of this Report.

Non-assessable lots or parcels may include areas of public streets and other roadways (typically not assigned an APN by the County); dedicated public easements, open space areas and rights-of-ways including public greenbelts and parkways; utility rights-of-ways; common areas; landlocked parcels, small parcels vacated by the County, bifurcated lots, and any other property that cannot be developed. These types of parcels are considered to receive little or no benefit from the improvements and are therefore exempted from assessment.

At the conclusion of the public hearing for the District and the proposed assessments, approval of the Report (as submitted or as modified) confirms the method of apportionment and the assessment rate to be levied against each eligible parcel and thereby constitutes the approved levy and collection of assessments for FY 2020/21. The listing of parcels and the amount of assessment to be levied shall be submitted to the County Auditor/Controller and included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the Current Fiscal Year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved in this Report. Therefore, if a single parcel has changed to multiple parcels, the assessment amount applied to each of the new parcels shall be recalculated and applied according to the approved method of apportionment and assessment rate rather than a proportionate share of the original assessment.

City of Roseville
Riverside Avenue Landscaping and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	FRONT FOOTAGE	LEGAL DESCRIPTION
014-011-004-000	Assessable	884.02	884.03	100.0	L 7 8 THEILE SUB
014-011-008-000	Assessable	1,458.64	1,458.65	165.0	LOTS 2 3 4 FR 1 THEILE SUB
014-011-009-000	Assessable	884.02	884.03	100.0	LOTS 5 6 THEILE SUBD
014-013-003-000	Assessable	442.00	442.01	50.0	FR LOT 1 THEILE SUB
014-013-004-000	Assessable	442.00	442.01	50.0	FR LOT 2 THEILE SUB
014-013-005-000	Assessable	442.00	442.01	50.0	LOT 3 THEILE SUB
014-013-006-000	Assessable	442.00	442.01	50.0	LOT 4 THEILE SUB
014-013-007-000	Assessable	442.00	442.01	50.0	L 5 THEILE SUB
014-013-008-000	Assessable	442.00	442.01	50.0	L 6 THEILE SUBD
014-013-009-000	Assessable	442.00	442.01	50.0	L 7 THEILE SUBD
014-013-010-000	Assessable	442.00	442.01	50.0	FR L 8 THEILE SUBD
014-024-003-000	Assessable	442.00	442.01	50.0	L 1 THEILE SUB
014-024-004-000	Assessable	442.00	442.01	50.0	LOT 2 THEILE SUB
014-024-005-000	Assessable	442.00	442.01	50.0	LOT 3 THEILE SUBD
014-024-006-000	Assessable	442.00	442.01	50.0	LOT 4 THEILE SUB
014-024-007-000	Assessable	442.00	442.01	50.0	LOT 5 THEILE SUB
014-024-008-000	Assessable	442.00	442.01	50.0	LOT 6 THEILE SUB
014-024-009-000	Assessable	442.00	442.01	50.0	LOT 7 THEILE SUB
014-024-010-000	Assessable	442.00	442.01	50.0	LOT 8 THEILE SUB
014-033-005-000	Assessable	503.88	503.90	57.0	FR LOT 2 THEILE 2 SUB
014-033-007-000	Assessable	1,007.78	1,007.79	114.0	POR LOT 4 THEILE #2 SUB MOR C-34
014-033-008-000	Assessable	1,007.78	1,007.79	114.0	FR LOT 5 THEILE 2 SUB
014-033-009-000	Assessable	884.02	884.03	100.0	FR LOT 6 THEILE 2 SUB
014-033-014-000	Deferred	-	-	0.0	FR L 3 THEILE #2 SUBD
014-033-025-000	Assessable	503.88	503.90	57.0	PAR A PMOR 22 132
014-033-028-000	Assessable	442.00	442.01	50.0	FR L 1 THEILE 2 SUBD
014-033-029-000	Assessable	442.00	442.01	50.0	FR L 1 THEILE 2 SUBD
014-053-003-000	Assessable	884.02	884.03	100.0	LOTS 1 2 THEILE 3 SUB
014-053-004-000	Assessable	442.00	442.01	50.0	LOT 3 THEILE 3 SUB
014-053-005-000	Assessable	442.00	442.01	50.0	LOT 4 THEILE 3 SUB
014-053-006-000	Assessable	442.00	442.01	50.0	LOT 5 THEILE 3 SUB
014-053-007-000	Assessable	442.00	442.01	50.0	L 6 THEILE 3 SUB
014-053-008-000	Assessable	442.00	442.01	50.0	L 7 THEILE #3
014-053-023-000	Assessable	1,277.94	1,277.95	144.56	L 8 THEILES SUBD
014-084-034-000	Assessable	1,004.42	1,004.43	113.62	FR SEC 11 10 6
014-091-014-000	Assessable	300.56	300.57	34.0	FR LOT 12 CHERRY GLEN TR
014-091-015-000	Assessable	291.72	291.73	33.0	FR LOTS 11 12 CHERRY GLEN
014-091-016-000	Assessable	291.72	291.73	33.0	FR LOT 11 CHERRY GLEN TR
014-091-017-000	Assessable	442.00	442.01	50.0	L 10 CHERRY GLEN TR
014-091-018-000	Assessable	442.00	442.01	50.0	LOT 9 CHERRY GLEN TR
014-091-019-000	Assessable	884.02	884.03	100.0	LOTS 7 8 CHERRY GLEN TR
014-091-020-000	Assessable	442.00	442.01	50.0	LOT 6 CHERRY GLEN TR
014-091-021-000	Assessable	442.00	442.01	50.0	LOT 5 CHERRY GLEN TR
014-091-022-000	Assessable	442.00	442.01	50.0	LOT 4 CHERRY GLEN TR
014-091-023-000	Assessable	442.00	442.01	50.0	FR LOTS 1 2 3 CHERRY GLEN TR
014-091-024-000	Assessable	884.02	884.03	100.0	FR LOTS 1 2 CHERRY GLEN TR
014-141-012-000	Assessable	442.00	442.01	50.0	LOT 12 CHERRY GL TR
014-141-013-000	Assessable	442.00	442.01	50.0	LOT 11 CHERRY GL TR
014-141-014-000	Assessable	442.00	442.01	50.0	LOT 10 CHERRY GL TR
014-141-015-000	Assessable	442.00	442.01	50.0	LOT 9 CHERRY GL TR
014-141-016-000	Assessable	442.00	442.01	50.0	LOT 8 CHERRY GL TR
014-141-017-000	Assessable	442.00	442.01	50.0	LOT 7 CHERRY GL TR
014-141-019-000	Assessable	294.38	294.38	33.3	FR LOT 5 CHERRY GL TR
014-141-020-000	Assessable	294.38	294.38	33.3	FR LOTS 4 5 CHERRY GL TR
014-141-021-000	Assessable	294.38	294.38	33.3	FR LOT 4 CHERRY GL TR
014-141-022-000	Assessable	442.00	442.01	50.0	LOT 3 CHERRY GL TR
014-141-023-000	Assessable	884.02	884.03	100.0	LOTS 1 2 CHERRY GL TR

City of Roseville
Riverside Avenue Landscaping and Lighting District
Fiscal Year 2020/21 Preliminary Assessment Roll

ASSESSOR PARCEL NUMBER	ASMT CATEGORY	CHARGE	MAXIMUM ASMT	FRONT FOOTAGE	LEGAL DESCRIPTION
014-141-026-000	Assessable	221.00	221.01	25.0	FR LOT 6 BLK B CHERRY GLEN
014-141-027-000	Assessable	221.00	221.01	25.0	FR LOT 6 BLK B CHERRY GLEN
014-191-016-000	Assessable	442.00	442.01	50.0	LOT 11 CHERRY GL TR
014-191-017-000	Assessable	442.00	442.01	50.0	LOT 10 CHERRY GL TR
014-191-018-000	Assessable	442.00	442.01	50.0	LOT 9 CHERRY GL TR
014-191-019-000	Assessable	442.00	442.01	50.0	LOT 8 CHERRY GL TR
014-191-020-000	Assessable	442.00	442.01	50.0	LOT 7 CHERRY GL TR
014-191-021-000	Assessable	884.02	884.03	100.0	LOTS 5 6 CHERRY GL TR
014-191-022-000	Assessable	884.02	884.03	100.0	LOTS 3 4 CHERRY GL TR
014-191-023-000	Assessable	884.02	884.03	100.0	FR LOTS 1 2 CHERRY GL TR
014-191-025-000	Assessable	442.00	442.01	50.0	LOT 12 CHERRY GL TR
014-251-011-000	Assessable	884.02	884.03	100.0	L 6 7 CHERRY GL TR
014-251-012-000	Assessable	884.02	884.03	100.0	L 4 5 CHERRY GL TR
014-251-013-000	Assessable	442.00	442.01	50.0	LOT 3 CHERRY GL TR
014-251-014-000	Assessable	442.00	442.01	50.0	LOT 2 CHERRY GL TR
014-251-015-000	Assessable	442.00	442.01	50.0	FR LOT 1 CHERRY GLEN TR
014-251-021-000	Assessable	884.02	884.03	100.0	LOTS 8 9 CHERRY GL TR
014-251-027-000	Assessable	1,326.04	1,326.04	150.0	1.2 AC SEC 11 10 6
472-180-009-000	Assessable	1,332.04	1,332.06	150.68	PARCEL A PARCEL MOR 1 11

Summary Fields	Value
ACTIVE PARCELS	76
LEVIED PARCELS	75
CHARGE	43,013.80
MAXIMUM ASMT	43,014.74
FRONT FOOTAGE	4,865.76

RESOLUTION NO. 20-162

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2020/2021, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Vernon Street Landscaping and Lighting District (hereafter referred to as the “District”) pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”), that provides for levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of street lighting, landscaping, and all appurtenant facilities and operations related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter “Engineer”) for the purpose of assisting with the establishment of the assessments, the annexation of territory, and to prepare and file an Engineer’s Annual Levy Report (hereinafter referred to as the “Engineer’s Report”) with the City Clerk in accordance with the act, and in accordance with the California Constitution, Articles XIII C and XIII D;

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 Engineer’s Report: The City Council hereby orders the Engineer to prepare and file with the City Clerk the Engineer’s Report concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22622 (d)* of the Act.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: maintenance, servicing, administration and operation of landscape, lighting and streetscape improvements, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

RESOLUTION NO. 20-162

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-163

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the “City Council”) does resolve as follows:

WHEREAS, The City Council has, by previous Resolutions, formed the Vernon Street Landscaping and Lighting District (hereafter referred to as the “District”), and initiated proceedings for Fiscal Year 2020/2021, pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereafter referred to as the “Act”) that provides for the levy and collection of assessments by the County of Placer for the City of Roseville to pay the maintenance and services of all improvements and facilities related thereto; and,

WHEREAS, the City Council has retained Willdan Financial Services for the purpose of assisting with the Annual Levy of the District, and to prepare and file a report with the City Clerk in accordance with the Act; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, PURSUANT TO *CH AFTER 3, SECTION 22624* OF THE ACT, AS FOLLOWS:

Section 1 Intention: The City Council hereby declares that it is its intention to seek the Annual Levy of the District pursuant to the Act, over and including the land within the District boundary, and to levy and collect assessments on all such land to pay the annual costs of the improvements.

Section 2 Proposed improvements and any substantial changes in existing improvements: The improvements within the District include: maintenance, servicing, administration and operation of landscape, lighting and streetscape improvements, other public improvements within the street right of way areas and all appurtenant facilities related thereto within the District. The Engineer’s Report describes all new improvements or substantial changes in existing improvements.

Section 3 Boundaries and Designation: The boundaries of the District are described as the boundaries previously defined in the formation documents of the original District. The District is known and designated as:

“Vernon Street Landscaping and Lighting District”

Section 4 Proposed Assessment Amounts: The proposed assessments are outlined in the Report. District Assessments are calculated in accordance with the method of apportionment established for the District and do not exceed the assessment rates and annual inflationary adjustment previously authorized by City Council and approved by the property owners in accordance with the provisions of the California State Constitution, Article XIID.

Section 5 Public Hearing(s): The City Council hereby declares its intention to conduct a Public Hearing annually concerning the levy of assessments for the District in accordance with *Chapter 3, Section 22626* of the Act.

Section 6 Notice: The City Clerk shall give notice of the time and place of the Public Hearing by causing the publishing of this Resolution once in a local newspaper not less than ten (10) days before the date of the hearing and by posting a copy of this Resolution on the official bulletin board customarily used by the City Council for the posting of notices.

Section 7 Time and Place of Public Hearing: Notice is hereby given that a Public Hearing on these matters will be held by the City Council on **Wednesday, May 20, 2020 at 6:00 p.m.**, or as soon thereafter as feasible in the regular meeting chambers located at 311 Vernon Street, Roseville, California.

RESOLUTION NO. 20-163

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville

RESOLUTION NO. 20-164

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2020/2021

The City Council of the City of Roseville, California (hereafter referred to as the "City Council") does resolve as follows:

WHEREAS, the City Council has, by previous Resolutions, ordered the preparation of an Annual Levy Report (hereafter referred to as the "Engineer's Report") for the district known and designated as the Vernon Street Landscaping and Lighting District (hereafter referred to as the "District"), pursuant to the provisions of the *Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code of California, beginning with Section 22500* (hereinafter referred to as the "Act"); and,

WHEREAS, the City Council has retained Willdan Financial Services (hereinafter "Engineer"), for the purpose of assisting with the establishment of the assessments and to prepare and file an Engineer's Report with the City Clerk in accordance with the Act, and in accordance with the requirements of the California Constitution, Articles XIIC and XIID; and,

WHEREAS, there has now been presented to this City Council the Engineer's Report as required by *Chapter 1, Article 4, Section 22566* of said Act; and,

WHEREAS, this City Council has carefully examined and reviewed the Engineer's Report as presented, and is preliminarily satisfied with the District, each and all of the budget items and documents as set forth therein, and is satisfied that the assessments, on a preliminary basis, have been spread in accordance with the benefits received from the improvements, operation, maintenance and services to be performed within the District, as set forth in said Engineer's Report; and,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED BY THE CITY COUNCIL FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, AS FOLLOWS:

Section 1 That the above recitals are all true and correct.

Section 2 That the Engineer's Report as presented, consists of the following:

- a. A Description of Improvements
- b. The Annual Budget (Costs and Expenses of Maintenance, Services, Operations and District Administration)
- c. The Assessment Roll containing the Fiscal Year 2020/2021 Levy for each Assessor Parcel within the District

Section 3 The Engineer's Report is hereby approved on a preliminary basis, and ordered to be filed in the Office of the City Clerk as a permanent record and to remain open to public inspection.

Section 4 That the City Clerk shall certify to the passage and adoption of this Resolution, and the minutes of this meeting shall so reflect the presentation of the Engineer's Report.

RESOLUTION NO. 20-164

PASSED, APPROVED, AND ADOPTED THIS_____day of_____, 2020.

_____,
Mayor
City of Roseville

_____,
City Clerk
City of Roseville

STATE OF CALIFORNIA)

COUNTY OF PLACER) ss.

CITY OF ROSEVILLE)

I,_____, City Clerk of the City of Roseville, County of Placer, State of California do hereby certify that the foregoing Resolution No._____ was adopted by the City Council of said City of Roseville at a regular meeting of said council held on the_____day of_____, 2020, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAINED:

_____,
City Clerk
City of Roseville



City of Roseville

Vernon Street Landscaping and Lighting District

2020/21 ENGINEER'S ANNUAL LEVY REPORT

Intent Meeting: May 6, 2020
Public Hearing: May 20, 2020

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ENGINEER'S REPORT AFFIDAVIT

Establishment of Annual Rates and Charges for the:

Vernon Street

Landscaping and Lighting District

City of Roseville

Placer County, State of California

This Report describes the District and any relevant zones therein, including the improvements, budgets, parcels and assessments to be levied for Fiscal Year 2020/21 as they existed at the time of the passage of the Resolution of Intention. Reference is hereby made to the Placer County Assessor's maps for a detailed description of the lines and dimensions of parcels within the District. The undersigned respectfully submits the enclosed Report as directed by the City Council.

Dated this 15th day of APRIL, 2020

Willdan Financial Services
Assessment Engineer
On Behalf of the City of Roseville

By: Mickey Ashley

Mickey Ashley
Senior Project Analyst
District Administration Services

By: Richard Kopecky

Richard Kopecky
R. C. E. # 16742



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I. OVERVIEW

A. INTRODUCTION

The City of Roseville (“City”) annually levies and collects special assessments in order to maintain the improvements within the Vernon Street Landscaping and Lighting District (“District”). The District was formed in January of 2001 and is levied annual assessments pursuant to *the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the California Streets and Highways Code* (“1972 Act”).

The Engineer’s Report (“Report”) describes the District, any new annexations, changes to the District, and the proposed assessments for the period of July 1, 2020 through June 30, 2021. The special benefit assessments are based on historical and estimated costs to maintain the District improvements. These assessments, which provide a direct and special benefit to properties within the District, will provide funding for the operation and maintenance of District improvements.

The word “parcel,” for the purposes of this Report, refers to an individual property assigned its own Assessor’s Parcel Number (“APN”) by the Placer County Assessor’s Office. The Placer County Auditor/Controller uses Assessor’s Parcel Numbers and specific Tax Code Accounts, to identify on the County’s tax roll, properties assessed for special district benefit assessments.

Following approval of the Report, the City Council will by resolution, order the improvements to be made and confirm the levy and collection of assessments herein pursuant to the Act. The assessment rates and method of apportionment described in this Report as approved or modified by the City Council defines the assessments to be applied to each parcel within the District for Fiscal Year (“FY”) 2020/21. The assessments as approved will be submitted to the Placer County Auditor/Controller to be included on the property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the Current Fiscal Year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved by the City Council.

B. COMPLIANCE WITH THE CURRENT LEGISLATION

All assessments described in this Report and approved by the City Council are prepared in accordance with the 1972 Act and are in compliance with the provisions of the California Constitution Article XIID (Proposition 218).

The District has been formed pursuant to the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the California Streets and Highways Code. Pursuant to the Act, an annual Public Hearing is conducted by the City Council to accept property owner and public comments, to review the Engineer's Annual Levy Report prior to approving the annual assessments to be levied on the County tax rolls. The assessments described in this Report have been prepared in accordance with the Act.

Prior to FY 2001/02, the City initiated (Resolution 00-523) and conducted property owner protest ballot proceedings (Resolution 01-22) in accordance with Article XIID of the California Constitution ("Article XIID") for the parcels within the District. An annual rate escalator was also included in the ballot that allows for an annual inflationary increase equal to the percentage change in the Consumer Price Index of the San Francisco-Oakland-Hayward Area (the "CPI") of each succeeding year (the "Escalation Percentage"). At the conclusion of the Public Hearing held on January 17, 2001, all property owner ballots returned were tabulated to determine if majority protest existed. The result of the protest proceeding was an approval of the assessment rate and the annual inflationary increase for maintaining the improvements within the District.

Pursuant to the Act, an annual Public Hearing is conducted by the City Council to accept property owner and public comments, to review the Engineer's Annual Levy Report prior to approving the annual assessments to be levied on the County tax rolls.

C. DESCRIPTION OF DISTRICT BOUNDARIES

The District is located in downtown Roseville and includes all parcels that front along Vernon Street between Folsom Road and the Riverside/Douglas Boulevard. See Appendix A for District boundary map.

D. IMPROVEMENTS AUTHORIZED BY THE 1972 ACT

As applicable or may be applicable to a proposed District, the 1972 Act defines improvements to mean one or any combination of the following:

- The installation or planting of landscaping.
- The installation or construction of statuary, fountains, and other ornamental structures and facilities.
- The installation or construction of public lighting facilities.

- The installation or construction of any facilities which are appurtenant to any of the foregoing or which are necessary or convenient for the maintenance or servicing thereof, including, but not limited to, grading, clearing, removal of debris, the installation or construction of curbs, gutters, walls, sidewalks, or paving, or water, irrigation, drainage, or electrical facilities.
- The maintenance or servicing, or both, of any of the foregoing.
- The acquisition of any existing improvement otherwise authorized pursuant to this section.

Incidental expenses associated with the improvements including, but not limited to:

- The cost of preparation of the report, including plans, specifications, estimates, diagram, and assessment;
- The costs of printing, advertising, and the publishing, posting and mailing of notices;
- Compensation payable to the County for collection of assessments;
- Compensation of any engineer or attorney employed to render services;
- Any other expenses incidental to the construction, installation, or maintenance and servicing of the improvements;
- Any expenses incidental to the issuance of bonds or notes pursuant to Section 22662.5.
- Costs associated with any elections held for the approval of a new or increased assessment.

The 1972 Act defines "Maintain" or "maintenance" to mean furnishing of services and materials for the ordinary and usual maintenance, operation, and servicing of any improvement, including:

- Repair, removal, or replacement of all or any part of any improvement.
- Providing for the life, growth, health, and beauty of landscaping, including cultivation, irrigation, trimming, spraying, fertilizing, or treating for disease or injury.
- The removal of trimmings, rubbish, debris, and other solid waste.
- The cleaning, sandblasting, and painting of walls and other improvements to remove or cover graffiti.

Furthermore, the 1972 Act specifies that where the cost of improvements (other than maintenance and operations) is greater than can be conveniently raised from a single annual assessment, an assessment to be levied and collected in annual installments. In that event, the governing body may choose to do any of the following:

- Provide for the accumulation of the moneys in an improvement fund until there are sufficient moneys to pay all or part of the cost of the improvements.

- Provide for a temporary advance to the improvement fund from any available and unencumbered funds of the local agency to pay all or part of the cost of the improvements and collect those advanced moneys from the annual installments collected through the assessments.
- Borrow an amount necessary to finance the estimated cost of the proposed improvements. The amount borrowed, including amounts for bonds issued to finance the estimated cost of the proposed improvements.

E. DESCRIPTION OF THE IMPROVEMENTS AND MAINTENANCE

The District ensures the continued maintenance, servicing, administration and operation of various landscape, lighting and streetscape improvements and associated appurtenances that are required to keep the improvements in a healthy, vigorous, and satisfactory condition. The assessable parcels receive benefit from the above improvements within the District.

Specific improvements include installation, maintenance and servicing of public facilities, including, but not limited to street trees, sidewalks, curbs, gutters, parking stripes, turf, brick pavers, planters, gateways, benches, bike racks, signage, trash receptacles, and lighting throughout the boundaries of the District (the “Improvements”).

As applied herein, “installation” means the construction of public Improvements, including, but not limited to, land preparation, such as grading, leveling, cutting and filling, sod, landscaping, irrigation systems, sidewalks and drainage, lights, equipment, turf, brick pavers, planters, gateways, benches, bike racks and signage.

“Maintenance” means the furnishing of services and materials for the ordinary and usual maintenance, operation and servicing of any Improvement, including repair, removal or replacement of all or any part of any Improvement; providing for the life, growth, health, and beauty of landscaping, including cultivation, irrigation, trimming, spraying, fertilizing, or treating for disease or injury; the removal of trimmings, rubbish, debris, and other solid waste, and the cleaning, sandblasting, and painting of Improvements to remove or cover graffiti.

“Servicing” means the furnishing of electric current, or energy, gas or other illuminating agent for any public lighting facilities or for the lighting or operation of any other Improvements; or water for the irrigation of any landscaping, the operation of any fountains, or the maintenance of any other Improvements.

Plans and specification for the Improvements to be maintained are on file in the office of the Economic and Community Services Director at 311 Vernon Street, Roseville, CA 95678.

All assessable parcels identified as being within the District share in both the cost and the benefits of the improvements. The costs associated with the Improvements are equitably spread among all benefiting parcels within the District. Only parcels that receive direct benefit from the Improvements are assessed, and each parcel is assessed in proportion to the estimated benefit received. The funds collected are dispersed and used for only the services and operation provided to the District.

II. METHOD OF APPORTIONMENT

A. GENERAL

The 1972 Act permits the establishment of assessment districts by agencies for the purpose of providing certain public improvements which include the construction, maintenance and servicing of public lights, landscaping and appurtenant facilities. The 1972 Act further requires that the cost of these improvements be levied according to benefit rather than assessed value:

“The net amount to be assessed upon lands within an assessment district may be apportioned by any formula or method which fairly distributes the net amount among all assessable lots or parcels in proportion to the estimated benefits to be received by each such lot or parcel from the improvements.”

The formula used for calculating assessments in the District therefore reflects the composition of the parcels, and the Improvements and services provided, to fairly apportion the costs based on estimated benefit to each parcel.

B. BENEFIT ANALYSIS

In conjunction with the provisions of the 1972 Act, the California Constitution Article XIIID addresses several key criteria for the levy of assessments, notably:

Article XIIID Section 2d defines District as follows:

“District means an area determined by an agency to contain all parcels which will receive a special benefit from a proposed public improvement or property-related service”;

Article XIIID Section 2i defines Special Benefit as follows:

“Special benefit” means a particular and distinct benefit over and above general benefits conferred on real property located in the district or to the public at large. General enhancement of property value does not constitute “special benefit.”

Article XIIID Section 4a defines proportional special benefit assessments as follows:

“An agency which proposes to levy an assessment shall identify all parcels which will have a special benefit conferred upon them and upon which an assessment will be imposed. The proportionate special benefit derived by each identified parcel shall be determined in relationship to the entirety of the capital cost of a public improvement, the maintenance and operation expenses of a public improvement, or the cost of the property related service being provided. No assessment shall be imposed on any parcel which exceeds the reasonable cost of the proportional special benefit conferred on that parcel.”

This District was formed to establish and provide for the improvements that enhance the presentation of the surrounding properties and developments. These improvements will directly benefit the parcels to be assessed within the District. The assessments and method of apportionment is based on the premise that the assessments will be used to construct and install landscape and lighting improvements within the District as well as provide for the annual maintenance of those improvements, and the assessment revenues generated by District will be used solely for such purposes.

The costs of the proposed improvements have been identified and allocated to properties within the District based on special benefit. The improvements to be provided by this District and for which properties will be assessed have been identified as an essential component and local amenity that provides a direct reflection and extension of the properties within the District which the property owners and residents have expressed a high level of support.

The method of apportionment (method of assessment) set forth in the Report is based on the premise that each assessed property receives special benefits from the landscape and lighting improvements within the District, and the assessment obligation for each parcel reflects that parcel's proportional special benefits as compared to other properties that receive special benefits.

To identify and determine the proportional special benefit to each parcel within the District, it is necessary to consider the entire scope of the improvements provided as well as the properties that benefit from those improvements. The improvements and the associated costs described in this Report, have been carefully reviewed and have been identified and allocated based on a benefit rationale and calculations that proportionally allocate the net cost of only those improvements determined to be of special benefit to properties within the District. The various public improvements and the associated costs have been identified as either “general benefit” (not assessed) or “special benefit”. The City initiated and conducted property owner protest ballot proceedings in accordance with Article XIIID. Each of the proposed Improvements, the associated costs and assessments were identified and allocated based on special benefit pursuant to the provisions of Article XIIID and 1972 Act. Additionally, the Improvements and the annual costs

of ensuring the maintenance and operation of the Improvements are of direct and special benefit to the properties.

The City annually levies and collects special benefit assessments in order to maintain and service the District Improvements. The District provides for specific Improvements and services that include the maintenance and operation of landscaping and lighting Improvements and associated appurtenances located within the District's public rights-of-way and dedicated easements. The annual assessment is based on the historical and estimated cost to maintain the Improvements that provide a benefit to properties within these Districts. The Improvements within the District and the costs of those Improvements are identified and budgeted separately, including all expenditures, deficits, surpluses, revenues, and reserves.

All Improvements within the District and the properties associated with those Improvements were reviewed for benefit prior to the formation of the District. Because the Improvements affront the benefited parcels, it has been determined that there is no measurable general benefit to properties outside the District or to the public at large. In making this determination it should be noted that similar improvements within California are typically maintained by individual property owners, through some type of association or a special district as allowed by State Law since the on-going maintenance of these improvements are a special benefit to the properties associated with those improvements.

The method of apportionment (method of assessment) for the District is based on the premise that each of the assessed parcels within the District receives special benefit from the Improvements maintained and financed by District assessments. The presence of these Improvements and the close proximity of the Improvements to the properties within the District enhance the desirability and security of properties within the District.

The landscape Improvements provided by the District may include landscaped parkways, perimeters, entryways, local medians, slopes, internal amenities and appurtenant facilities. Street lighting Improvements may include all energy costs and necessary maintenance to the facilities related thereto. The annual assessments outlined in this Report are proposed to cover the estimated costs to provide all necessary service, operation, administration, and maintenance required to keep these Improvements in a healthy, vigorous, and satisfactory condition. The special benefits associated with the local landscaping Improvements are specifically:

The special benefits associated with all landscaping Improvements are specifically:

- Enhanced desirability of properties through association with the Improvements.

- Improved aesthetic appeal of properties providing a positive representation of the area and properties.
- Enhanced adaptation of the urban environment within the natural environment from adequate landscaping.
- Environmental enhancement through improved dust and debris control, and fire prevention.
- Increased sense of pride in ownership of property within the District resulting from well-maintained Improvements associated with the properties.
- Enhanced quality of life through well-maintained landscaped areas.
- Reduced criminal activity and property-related crimes (especially vandalism) against properties in the District through well-maintained surroundings and amenities including abatement of graffiti.
- Enhanced environmental quality of the parcels by moderating temperatures, providing oxygenation and attenuating noise.

The special benefits of street lighting are the convenience, safety, and security of property, improvements, and goods. Specifically:

- Enhanced deterrence of crime and the aid to police protection.
- Increased nighttime safety on streets and roads within the Districts.
- Improved ability of pedestrians and motorists to see.
- Improved ingress and egress to property.
- Reduced vandalism and other criminal acts and damage to Improvements or property.
- Improved traffic circulation and reduced nighttime accidents and personal property loss.
- Increased promotion of business during nighttime hours in the case of commercial properties.

All of the preceding special benefits contribute to a specific enhancement and desirability of each of the assessed parcels within the District.

C. DESCRIPTION OF THE METHOD OF APPORTIONMENT

Pursuant to the 1972 Act, the costs of the District may be apportioned by any formula or method that fairly distributes the net amount to be assessed, among all assessable parcels within the District in proportion to the estimated special benefits to be received by each such parcel from the Improvements. The special benefit formula used should reflect the composition of the parcels, the Improvements and

services provided to fairly proportion the costs based on estimated special benefit to each parcel within the District. All assessable parcels within the District shall receive a direct special benefit from the services and Improvements provided by the District.

Article XIID of the California Constitution specifies that only special benefits are assessable and that the City must separate the general benefits from the special benefits conferred on any parcel. Since the District is a downtown business area and the Improvements that affront each District parcel primarily attract and retain an increased customer base, these benefits enhance the District parcels and there is no measurable benefit to the public at large. Therefore, 100% of the Improvements are considered special benefit to the District parcels. The cost of maintaining the Improvements is therefore identified as special benefit and has been allocated to the special assessments.

It was determined that a uniform assessment rate per foot of frontage upon Vernon Street would fairly distribute the net amount to be assessed due to the following reasons:

1. The assessments are based upon a specific property owner's special benefit received from the Improvements.
2. The special benefits should be directly related to the extent at which a property fronts the improvements, relative to other properties in the District.

The base assessment rate for the District was \$4.59 per linear foot in FY 2001/02 and was determined using the formula below.

$$\text{Assessment Rate Per Foot} = \frac{\text{Balance to Levy}}{\text{Total Feet of Frontage}}$$

The annual assessment amount for each parcel was then determined using the formula below:

$$\text{Parcel Front Footage} \times \text{Rate per Linear Foot} = \text{Parcel Assessment Amount}$$

D. ANNUAL INFLATIONARY ADJUSTMENT

Commencing with FY 2002/03, the maximum assessment rate is to increase by the percentage change in the Consumer Price Index of the San Francisco-Oakland-Hayward ("CPI") as of January of each succeeding year (the "Escalation Percentage"). Since the Department of Labor, Bureau of Labor Statistics does not publish a CPI for January; the CPI for preceding month shall be used since this is the CPI *available* in the month of January. The District's starting CPI Index of 184.1, December of 2000, is hereby established as the base CPI (the "Base Year CPI Index").

If the proposed assessment increases over the prior fiscal year by a percentage no greater than the Escalation Percentage as defined above, then the proposed assessment is not considered an increase. This assessment range formula shall be applied to all future assessments within the District. Generally, if the proposed annual assessment rate for the Current Fiscal Year is less than or equal to the calculated maximum assessment rate, then the proposed annual assessment is not considered an increased assessment.

E. APPEALS AND INTERPRETATION

Any property owner, who believes that the assessment levied on the subject property is in error as a result of incorrect information being used to apply the foregoing method of assessment, may file a written appeal with the Finance Director of the City of Roseville or his or her designee. Any such appeal is limited to correction of an assessment during the then Current Fiscal Year. Upon the filing of any such appeal, the Director of Housing and Redevelopment or his or her designee will promptly review the appeal and any information provided by the property owner. If the Director of Housing and Redevelopment or his or her designee finds that the assessment should be modified, the appropriate changes shall be made to the assessment roll. However, if any such changes are approved after the County of Placer's deadline for adjustments to the tax roll, the Director of Housing and Redevelopment or his or her designee is authorized to approve a refund of the reduction amount to the property owner. Any dispute over the decision of the Director of Housing and Redevelopment or his or her designee, shall be referred to the City Council of the City of Roseville and the decision of the City Council of the City of Roseville shall be final.

F. DETERMINATION OF FRONT FOOTAGE

The front footage of each assessable parcel is subject to revision and/or correction using measurements of front footage found on the then current Placer County Assessor's Parcel Maps or through direct measurement by City personnel. Any such correction that increases a Parcel Assessment shall not be considered an increased assessment subject to the procedural provisions of Article XIID.

III. DISTRICT BUDGET

A. FY 2020/21 BUDGET

DESCRIPTION	AMOUNTS
<u>DIRECT COSTS</u>	
Contract Maintenance - Landscaping	\$4,830.00
Repair & Maintenance - Landscaping	10,150.00
Repair & Maintenance - Lighting	2,000.00
Repair and Maintenance - Streetscape and Signage	2,500.00
Utilities	9,600.00
Rehab Reserve Project Expenditures	<u>8,530.00</u>
Total Direct Costs	\$37,610.00
<u>ADMINISTRATION COSTS</u>	
City Administration	\$777.00
Contract Administration - Park's Dept	2,434.00
County Auditor Fees	397.69
Consulting & Professional Services	3,570.00
Consultant Incidental Expenses	15.00
Public Hearing Publishing Costs	<u>880.00</u>
Total Administrative Costs	\$8,073.69
Total Direct and Administration Costs	\$45,683.69
<u>BUDGET ADJUSTMENTS</u>	
Replenishment/(Use) of Operating Reserve	\$0.00
Contribution for /(Use of) Rehab Reserve	(5,914.31)
Rounding Adjustment	<u>(0.20)</u>
Total Adjustments	(\$5,914.51)
BALANCE TO LEVY	\$39,769.18

Fund balance information is reported in Section C on the following page.

B. FY 2020/21 ASSESSMENT RATES

DESCRIPTION	AMOUNTS
<u>FY 2020/21 ASSESSMENT RATES</u>	
Number of Assessable Parcels	60
Total Assessable Front Footage	5,370.76
Assessment Rates	
Applied Assessment Rates per each Foot of Frontage	\$7.4048
Maximum Assessment Rates per each Foot of Frontage	\$7.4048
Potential Maximum Assessment	\$39,769

C. FY 2020/21 FUND BALANCE INFORMATION

DESCRIPTION	AMOUNTS
<u>OPERATING RESERVE</u>	
Beginning Operating Reserve Balance 7-1-2020 (est.)	\$9,189.31
add: Replenish from FY 20/21 Levy	
less: Use for FY 20/21 Expenses	
Transfer from/(to) the Rehab Reserve	9,615.69
Ending Operating Reserve Balance 6-30-2021 (est.)	\$18,805.00
<u>REHABILITATION RESERVE</u>	
Beginning Rehab Reserve Balance 7-1-2020 (est.)	44,600.44
add: Collect from FY 20/21 Levy	2,615.69
less: Use for FY 20/21 Rehab Projects	(8,530.00)
Transfer from/(to) the Operating Reserve	(9,615.69)
Ending Rehab Reserve Balance 6-30-2021 (est.)	\$29,070.44

D. DESCRIPTION OF BUDGET ITEMS

Description of the terms used in the preceding Budget, Assessment Rates and Fund Balance tables are listed below:

BUDGET:

DIRECT COSTS

Contract Maintenance - Landscaping - Includes all regularly scheduled contract labor, materials, supplies and equipment required to properly maintain and ensure the satisfactory condition or maintenance of all landscaping corridors, street medians, entryways, irrigation and related drainage systems as well as maintenance of appurtenant facilities (the "improvements").

Repair & Maintenance – Landscaping - This line item includes repairs that are generally unforeseen and not normally included in the annual maintenance contract costs. This may include repair of damaged amenities due to vandalism, storms, etc. If zero, this line item may not be shown in the budget.

Repair & Maintenance – Lighting - This line item includes bulb replacement and repairs that are generally unforeseen. This may include repair of damaged amenities due to vandalism, storms, etc.

Repair & Maintenance - Streetscape/Signage - This line item includes repairs that are generally unforeseen and not normally included in the annual maintenance contract costs. This may include repair of damaged amenities due to vandalism, storms, etc.

Utilities - The furnishing of water and electricity required for the operation and maintenance of the improvements.

Rehab Reserve Project Expenditures – Expected costs for installation, replacement or planned upgrades of District improvements for the current year that were previously funded or accumulated in the Rehabilitation Reserve. The Rehabilitation Reserve is used to accumulate funds for costs associated with the future rehabilitation or replacement of District improvements that cannot be conveniently raised from a single year's assessment. If zero, this line item may not be shown in the budget.

ADMINISTRATION COSTS

City Administration – Estimated costs incurred by the City Finance Department and other Departments in preparing the annual budget for the Engineer's Report, together with other financial information required to determine the annual assessment. These costs would also include the preparation, posting and publishing of public notices required for City Council action relating to the District, as well as costs to perform legal review of documents.

Contract Administration – Park's Dept – Estimated Costs of Park and Recreation Department staff to coordinate and oversee the maintenance contracts and overall repair and maintenance of the District. This amount also includes the cost of the Department's estimates and analysis of certain budget items, estimated costs and useful lives of certain District Improvements.

County Auditor Fees - A fee of 1% of the total levy amount that is charged to the District by the County for placing assessments on property tax bills.

Consulting and Professional Services – Includes the costs and expenses of contracting with various professionals to provide legal, engineering and district

administration services directly related to the District, including the calculation of the annual assessment amounts and the preparation of the Engineer's' Report.

Public Hearing Publishing Costs –Includes the out of pocket costs to publish public notices required for City Council action relating to the District.

Total Direct and Administration Costs – The total expected costs of the District.

BUDGET ADJUSTMENTS

Replenishment/(Use) of Operating Reserve – A “Replenishment” increases the levy in order to replenish the Operating Reserve. On the other hand, a “Use” of the Operating Reserve decreases the levy by drawing funds from the Operating Reserve for current year expenditures. If zero, this line item may not be shown in the budget. Further information regarding the function of the Operating Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Contribution for /(Use of) Rehab Reserve — A “Contribution” increases the levy in order to generate funding for the Rehabilitation Reserve. This reserve allows for the accumulation of funds for the possible rehabilitation projects or replacements in future years. On the other hand, a “Use of” of the Rehabilitation Reserve provides current year funding of rehabilitation projects or replacements from available funds within the Rehabilitation Reserve. If zero, this line item may not be shown in the budget. Further information regarding the function of the Rehabilitation Reserve is provided under “FUND BALANCE INFORMATION” in the following pages of this Section.

Rounding Adjustment – The necessary rounding adjustment(s) due to limitations of the County property tax system that requires even penny levy amounts to be placed on the secured tax roll.

BALANCE TO LEVY - This is the total amount to be levied and collected through assessments for the current fiscal year for each zone. The Balance to Levy represents the sum of the total District costs together with any applicable adjustments to the budget as described above.

ASSESSMENT RATES:

APPLIED ASSESSMENT RATE

Number of Assessable Parcels - The total number of parcels that are expected to be assessed. Non-assessable lots or parcels include government-owned land, public utility-owned property, land principally encumbered by public rights-of-way or easements, common areas, and/or parcels within the boundaries of the District currently do not benefit from the improvements and are therefore not assessed.

Total Assessable Front Footage - The total linear footage of that portion of each assessable parcel's boundary that is contiguous with Vernon Street.

Applied Assessment Rate per Front Foot - This amount represents the rate being applied to the front footage of each parcel for the Current Fiscal Year.

Maximum Assessment Rate per Front Foot - This amount represents the maximum rate that can be being applied to the front footage of each parcel for the Current Fiscal Year.

Maximum Potential Assessment – The total amount that is expected to be assessed against all parcels within the District for the Current Fiscal Year.

FUND BALANCE INFORMATION:

OPERATING RESERVE

Beginning Operating Reserve Balance 7-1-2020 (est.) - The anticipated beginning balance of cash and receivables net of any unpaid prior year obligations for each Zone. These beginning balances shall be used to fund each Zone's expenditures from July 1, 2020 to December 31, 2020, as the Operating Reserve is required to compensate for the approximate six-month delay between the start of the District's fiscal year and the receipt of the collections from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

Replenish from FY 20/21 Levy – This amount is added to the levy in order to replenish the Operating Reserve. Due to the six-month delay from the District's receipt of assessment collections, the Operating Reserve balance shall be sufficiently funded to provide for expenditures from the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Expenses – The amount of the Operating Reserve to be used to fund FY 20/21 expenses. Portions of the Operating Reserve may be slated for current year expenditures in order to reduce the Ending Operating Reserve

Balance to an amount no greater than the expected District costs for the period of July 1, 2020 (the beginning of the Fiscal Year) through December 31, 2020. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Rehab Reserve — The amount of Operating Reserve monies to be transferred to or from the Rehabilitation Reserve. Periodically, funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Operating Reserve Balance 6-30-2021 (est.) - This amount represents the anticipated Operating Reserve balance/(deficit) for each Zone as of June 30, 2021. The size of each Zone's Operating Reserve is limited by Streets and Highways Code 22569 which states that an Operating Reserve shall not exceed the estimated costs of maintenance, service and incidental expenses from the first day of the fiscal year (July 1) to the date that the Agency expects to receive the first apportionment of collections from the County, which is estimated to be December 31. Therefore, each Zone may retain an Operating Reserve amounting to the District's first six-months of expenses in order to meet ongoing obligations until the first collections are received from the County. All Rehabilitation Reserve balances, if any, are excluded from the Operating Reserve balances and shall be shown separately in the Report.

REHABILITATION RESERVE

Beginning Rehab Reserve Balance 7-1-2020 (est.) — The projected balance of funds in the Rehabilitation Reserve as of July 1, 2020. Streets and Highways Code 22660 allows the District generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

Collect from FY 20/21 Levy — This amount is added to the levy to accumulate funding of future year rehabilitation projects, replacements, restorations or upgrades of District improvements. If zero, this line item may not be shown in the budget.

Use for FY 20/21 Rehab Projects – The amount of Rehabilitation Reserve monies expected to be transferred out of the Rehabilitation Reserve to fund the costs of installation, replacement or planned upgrades of District improvements for the current year. If zero, this line item may not be shown in the budget.

Transfer from/(to) the Operating Reserve — The amount of Rehabilitation Reserve monies to be transferred to or from the Operating Reserve. Periodically,

funds held in a Rehabilitation Reserve may be needed to respond to changing maintenance needs of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the same zone's Operating Reserve, at the discretion of the Parks and Recreation Department, in order to provide for the maintenance and operation of the improvements. If zero, this line item may not be shown in the budget.

Ending Rehab Reserve Balance 6-30-2021 (est.) - The projected balance of funds in the Rehabilitation Reserve as of June 30, 2021. These funds shall be used to provide for future year rehabilitation projects, replacements, restorations or upgrades of District improvements which cannot be conveniently raised from a single year's assessment. Should the District have no Rehabilitation Reserve balances or related activity, no Rehabilitation Reserve information shall be presented in the Report.

E. REHABILITATION RESERVE – CAPITAL IMPROVEMENT PLAN

Streets and Highways Code 22660 allows the District to generate and accumulate funds over several years to fund District improvements that cannot be conveniently raised from a single year's assessment.

A five-year Capital Improvement Plan showing projected expenditures related to the rehabilitation, restoration and/or replacement of District improvements, and other allowable costs, is shown below.

Description	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	4 Year Total
Grid pruning, removal and replacement of declining trees	\$2,530	\$2,530	\$2,530	\$2,530	\$2,530	\$10,120
Replace, repair, renovate and/or refurbish plants, landscaping & related materials	\$5,000	\$6,000	\$5,000	\$5,000	\$3,000	\$19,000
Replace, repair electrical outlets	\$1,000	\$2,000	\$3,000	\$1,500	\$1,000	\$7,500
Total Projected Expenditures	\$8,530	\$10,530	\$10,530	\$9,030	\$6,530	\$36,620

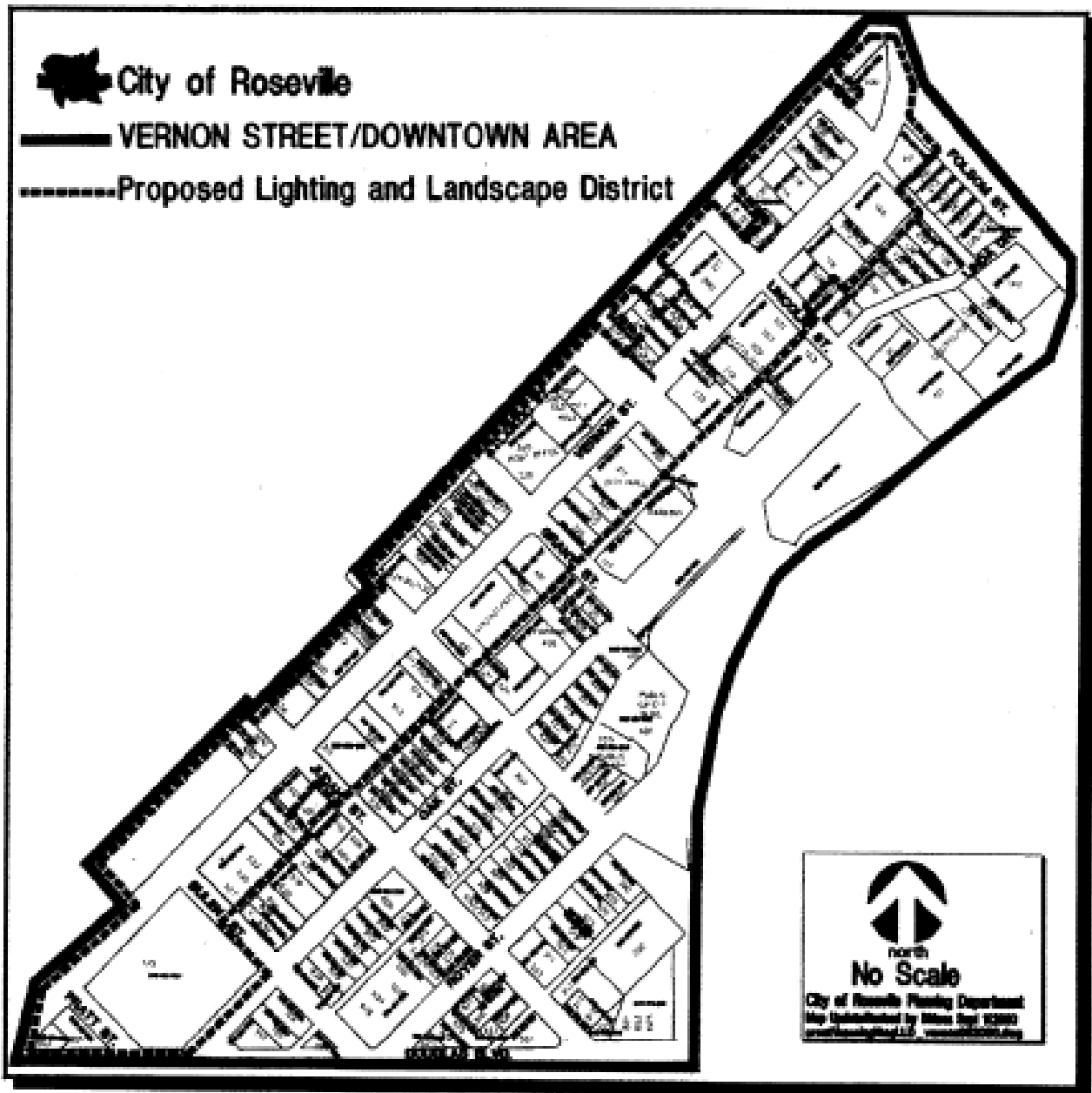
From time to time, funds held in a Rehabilitation Reserve may be needed to respond to changing needs due to the condition of the improvements or other factors. Accordingly, any or all funds held in a Rehabilitation Reserve are subject to transfer into the Districts' Operating Reserve, at the discretion of the Parks and Recreation Department or equivalent, in order to provide for the maintenance and/or operation of the improvements.

APPENDIX A – DISTRICT BOUNDARY MAP

The boundary map for the District has previously been submitted to the Clerk of the City in the format required under the 1972 Act and is, by reference, hereby made part of this Report. These District Boundary Maps are available for inspection at the office of the City Clerk during normal business hours.

For general reference purposes, a summary of the District's Boundaries is presented herein.

Assessment diagram



APPENDIX B — 2020/21 ASSESSMENT ROLL

Parcel identification, for each lot or parcel within the District, shall be the parcel as shown on the Placer County Assessor's map for the year in which this Report is prepared.

A listing of parcels to be assessed within this District, along with the proposed assessment amounts, shall be submitted to the City Clerk, under a separate cover, and by reference is made part of this Report.

Non-assessable lots or parcels may include areas of public streets and other roadways (typically not assigned an APN by the County); dedicated public easements, open space areas and rights-of-ways including public greenbelts and parkways; utility rights-of-ways; common areas; landlocked parcels, small parcels vacated by the County, bifurcated lots, and any other property that cannot be developed. These types of parcels are considered to receive little or no benefit from the improvements and are therefore exempted from assessment.

At the conclusion of the public hearing for the District and the proposed assessments, approval of the Report (as submitted or as modified) confirms the method of apportionment and the assessment rate to be levied against each eligible parcel and thereby constitutes the approved levy and collection of assessments for FY 2020/21. The listing of parcels and the amount of assessment to be levied shall be submitted to the County Auditor/Controller and included on the FY 2020/21 property tax roll for each parcel.

If any parcel submitted for collection is identified by the County Auditor/Controller to be an invalid parcel number for the Current Fiscal Year, a corrected parcel number and/or new parcel numbers will be identified and resubmitted to the County Auditor/Controller. The assessment amount to be levied and collected for the resubmitted parcel or parcels shall be based on the method of apportionment and assessment rate approved in this Report. Therefore, if a single parcel has changed to multiple parcels, the assessment amount applied to each of the new parcels shall be recalculated and applied according to the approved method of apportionment and assessment rate rather than a proportionate share of the original assessment.

City of Roseville
Vernon Street Landscaping and Lighting District
Fiscal Year 2020/21 Assessment Roll

ASSESSOR PARCEL NUMBER	ASSESSMENT CATEGORY	MAXIMUM ASSESSMENT	CHARGE	FRONT FEET	LEGAL DESCRIPTION
013-070-004-000	Assessable	1,744.66	1,744.66	235.61	FR SEC 2 10 6
013-071-001-000	Assessable	370.24	370.24	50.0	LOT 8 BLK 1
013-071-002-000	Assessable	370.24	370.24	50.0	LOT 7 BLK 1 RSVLE
013-071-003-000	Assessable	370.24	370.24	50.0	LOT 6 BLK 1 RSVLE
013-071-004-000	Assessable	740.48	740.48	100.0	L 4 5 BLK 1
013-071-006-000	Assessable	740.48	740.48	100.0	FR LOTS 1 2 BLK 1
013-091-003-000	Assessable	1,110.72	1,110.72	150.0	L 1 2 3 BL 3
013-092-006-000	Assessable	370.24	370.24	50.0	FR LOT 4 BLK 2
013-071-009-000	Assessable	370.24	370.24	50.0	L 3 2 BLK 1
013-072-008-000	Assessable	740.48	740.48	100.0	POR LOTS 15 & 16 BLK 15 ROSEVILLE TOWNSITE MOR C33
013-072-010-000	Assessable	740.48	740.48	100.0	LOTS 13 14 BLK 15
013-072-011-000	Assessable	370.24	370.24	50.0	LOT 12 BLK 15
013-072-012-000	Assessable	1,110.72	1,110.72	150.0	L 9 10 11 BLK 15
013-073-011-000	Assessable	962.63	962.62	130.0	LOTS 1 2 BUTLER SUBD
013-092-007-000	Assessable	370.24	370.24	50.0	LOT 3 BLK 2
013-092-008-000	Assessable	298.03	298.02	40.25	FR LOT 2 BLK 2
013-092-009-000	Assessable	444.06	444.06	59.97	FR LOTS 1 2 BLK 2
013-092-014-000	Assessable	1,110.72	1,110.72	150.0	FR SEC 2 10 6
013-093-003-000	Assessable	740.48	740.48	100.0	FR LOTS 14 LOTS 15 16 BLK 14
013-093-004-000	Assessable	214.74	214.74	29.0	FR LOT 14 BLK 14
013-093-005-000	Assessable	155.50	155.50	21.0	FR L 14 BLK 14 RSVLLE
013-093-006-000	Assessable	562.76	562.76	76.0	FR LOT 12 LOT 13 BLK 14
013-093-007-000	Assessable	1,288.45	1,288.44	174.0	LOTS 9 10 11 FR LOT 12 BLK 14
013-121-002-000	Assessable	1,110.72	1,110.72	150.0	L 4 5 6 BLK 5
013-121-003-000	Assessable	370.24	370.24	50.0	LOT 3 BLK 5
013-121-004-000	Assessable	741.36	741.36	100.12	PAR A PMOR 18 117
013-121-005-000	Assessable	370.24	370.24	50.0	L 7 BLK 5 RSVLE
013-121-006-000	Assessable	370.67	370.66	50.06	L 8 BLK 5 RSVLLE
013-122-001-000	Assessable	371.34	371.34	50.15	FR L 7 8 BLK 4
013-122-002-000	Assessable	174.00	174.00	23.5	FR LOT 7 BLK 4
013-123-017-000	Assessable	815.72	815.72	110.16	PAR 1 PMOR 18 155
013-124-006-000	Assessable	370.24	370.24	50.0	LOT 16 BLK 13
013-124-007-000	Assessable	370.24	370.24	50.0	L 15 BLK 13
013-124-008-000	Assessable	370.24	370.24	50.0	LOT 14 BLK 13
013-124-017-000	Assessable	1,110.72	1,110.72	150.0	LOTS 11 12 13 BLK 13 & POR ALLEY WAY
013-124-018-000	Assessable	575.35	575.34	77.7	LOT 10 BLK 13 & POR CITY STREET & ALLEY WAY
013-250-032-000	Not Balloted	-	-	0.0	FR SEC 2 10 6
013-122-003-000	Assessable	195.11	195.10	26.35	FR L 7 BLK 4
013-122-004-000	Assessable	370.24	370.24	50.0	L 6 BLK 4
013-122-005-000	Assessable	370.24	370.24	50.0	LOT 5 BLK 4
013-122-009-000	Assessable	667.84	667.84	90.19	L 1 FR L 2 BLK 4
013-122-010-000	Assessable	444.29	444.28	60.0	L 3 FR 2 BLK 4 RSVLLE
013-122-011-000	Assessable	148.08	148.08	20.0	FR L 4 BLK 4 RSVLLE
013-122-012-000	Assessable	222.13	222.12	30.0	FR L 4 BLK 4 RSVL
013-151-004-000	Assessable	740.48	740.48	100.0	POR L 7 & 8 BLK 6
013-152-012-000	Assessable	370.24	370.24	50.0	L 11 BLK 10
013-152-017-000	Assessable	740.48	740.48	100.0	PAR A PMOR 21 141
013-153-013-000	Assessable	1,073.69	1,073.68	145.0	FR L 10 L 11 12 BLK 11
013-153-014-000	Assessable	436.87	436.86	59.0	LOT 9 FR 10 BLK 11
013-153-019-000	Assessable	553.81	553.80	74.79	LOT 13 FR LOT 14 BLK 11
013-153-023-000	Assessable	927.16	927.16	125.21	PAR A & B PMOR 1 1
013-161-001-000	Assessable	481.32	481.32	65.0	FR L 9 10 BLK 8
013-161-002-000	Assessable	666.43	666.42	90.0	FR LOT 10 11 BLK 8
013-162-001-000	Assessable	2,961.95	2,961.94	400.0	BLK 9 ROSEVILLE
013-092-005-510	Assessable	185.11	185.10	25.0	FR L 5 BLK 2
013-092-005-520	Assessable	185.11	185.10	25.0	FR L 5 BLK 2
013-123-021-000	Assessable	538.69	538.68	72.75	PAR 1 PMOR 32-99
013-123-024-000	Assessable	1,078.81	1,078.80	145.69	1.1 AC PAR 3 PMOR 32-99
013-123-026-000	Assessable	527.67	527.66	71.26	PAR 2 PMOR 32-99
013-250-033-000	Not Balloted	-	-	0.0	53.6 AC FR SEC 2 10 6 SBE # 872-31-2Y PAR 57

City of Roseville
Vernon Street Landscaping and Lighting District
Fiscal Year 2020/21 Assessment Roll

ASSESSOR PARCEL NUMBER	ASSESSMENT CATEGORY	MAXIMUM ASSESSMENT	CHARGE	FRONT FEET	LEGAL DESCRIPTION
013-250-034-000	Not Balloted	-	-	0.0	FR SEC 2 10 6 SBE # 872-31-2Y PAR 58 MRO
013-152-021-000	Assessable	1,851.21	1,851.20	250.0	LOTS 12-16 BLK 10 ROSEVILLE ORIGINAL TOWN MOR C-33
013-091-010-000	Assessable	1,614.26	1,614.26	218.0	LOTS 4, 5, 6&7&POR 8 & CITY ST BLK3 TOWN OF RSVL

Summary Fields	Value
ACTIVE PARCELS	63
LEVIED PARCELS	60
MAXIMUM ASSESSMENT	39,769.37
CHARGE	39,769.18
FRONT FEET	5,370.76



COUNCIL COMMUNICATION

CC #: 0747

File #: 0200

Title: Utility Billing System - Software License Agreement Amendment

Contact: Andrea Blomquist 916-774-5317 ablomquist@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.19.

RECOMMENDATION TO COUNCIL

Staff recommends the City Council adopt a resolution authorizing the City Manager to execute a first amendment to Software License Agreement with N. Harris Computer Corporation.

BACKGROUND

The City of Roseville currently contracts with N. Harris Computer Corporation for Cayenta, a customer information system used for utility billing. As part of the City's standard operating procedures, Utility Billing staff are executing additional system tools from Cayenta to enhance customer service to both internal and external customers. The annual licensing fees for these tools is \$9,250.

FISCAL IMPACT

The total cost of the contract amendment is not to exceed \$9,250. This cost is included in the approved FY2019-20 Finance/Utility Billing operating budgets.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. An amendment to a Software License Agreement meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Andrea Blomquist, Billing Services Manager

Dennis Kauffman, Assistant City Manager/Chief Financial Officer

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, likely representing the name Dominick Casey.

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-139

Cayenta Software Agreement Addendum

RESOLUTION NO. 20-139

APPROVING A FIRST AMENDMENT TO SOFTWARE LICENSE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND N. HARRIS CORPORATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a first amendment to software license agreement for the customer information system used for utility billing services, by and between the City of Roseville and N. Harris Corporation, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**FIRST AMENDMENT TO
SOFTWARE LICENSE AGREEMENT**

THIS FIRST AMENDMENT TO AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and N. Harris Computer Corporation, a Canadian corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into a Software License Agreement dated September 3, 2014 ("Agreement") regarding the implementation of a new Customer Information System ("Project"); and

WHEREAS, CITY desires to amend the Agreement to include additional services as described in CONSULTANT's License Agreement Addendum, which is attached hereto as Exhibit "A" and incorporated herein by reference; and

WHEREAS, CONSULTANT is willing and able to provide such additional services.

NOW, THEREFORE, the parties agree as follows:

1. CONSULTANT shall provide additional services as described in Exhibit "A" of this First Amendment to Agreement.
2. Paragraph 2 of the Agreement is amended by adding an additional paragraph to read as follows:

"CITY shall pay nine thousand, two hundred fifty dollars (\$9,250), in consideration of the additional services as set forth in Exhibit "A" to the First Amendment to Agreement."

3. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this First Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

N. HARRIS COMPUTER
CORPORATION, a Canadian corporation

BY: _____
DOMINICK CASEY
City Manager

ATTEST:

BY: _____
SONIA OROZCO
City Clerk

BY: 
its: CHRIS CAMPBELL - VP - OPERATIONS

and

BY: 
its: Barry Murphy, EVP Cayenta

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

APPROVED AS TO FORM:

BY: _____

ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

Dennis
BY: Kauffman

Digitally signed by Dennis
Kauffman
Date: 2020.04.10 11:03:36
-07'00'

DENNIS KAUFFMAN
Assistant City Manager/
Chief Financial Officer

EXHIBIT "A"



A Division of N. Harris Computer Corporation

License Agreement Addendum

This Agreement is made a part of and shall be governed by terms of the License Agreement and Supplement, dated **September 3, 2014**, by and between N. Harris Computer Corporation ("Cayenta") and **The City of Roseville, CA**.

For and in consideration of the mutual covenants and agreements contained herein, the parties hereby agree as follows:

CAYENTA LICENSES

Description	Annual Cost per user	Annual Maintenance
CLUE – Cayenta Link Using Excel, 2 Users	\$750.00	\$1,500.00
CLUE – Account Builder (no user limits)	-	\$1,000.00
CLUE – Rates Mapping (no user limits)	-	\$500.00
Total		\$3,000.00

PAYMENT SCHEDULE

Description	Amount Due
Annual Maintenance – due upon installation	\$3,000.00



A Division of N. Harris Computer Corporation

License Agreement Addendum

This Agreement is made a part of and shall be governed by terms of the License Agreement and Supplement, dated **September 3, 2014**, by and between N. Harris Computer Corporation ("Cayenta") and **The City of Roseville, CA**.

For and in consideration of the mutual covenants and agreements contained herein, the parties hereby agree as follows:

CAYENTA LICENSES

Description	License Cost	Annual Maintenance
Cayenta Reporting Base Models	\$5,000	\$1,250.00
Total		\$6,250.00

PAYMENT SCHEDULE

Description	Amount Due
License	\$5,000.00
Annual Maintenance – due upon installation	1,250.00
Total	\$6,250.00



COUNCIL COMMUNICATION

CC #: 0742
File #: 0800-03

Title: Main Gas Supplier Agreement - Transaction Confirmation
Contact: Petra Wallace 916-774-5510 pwallace@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.20.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council adopt a resolution authorizing the City Manager to execute a Main Gas Supplier Agreement ("Agreement") with Shell Energy North America L.P. ("Shell").

BACKGROUND

In order to operate the Roseville Energy Park and the Roseville Combustion Turbine project, the City purchases natural gas. This gas is transported on the Pacific Gas and Electric pipeline system. This pipeline system enforces operational restrictions that can result in substantial penalties when scheduled use varies from actual daily usage. To mitigate this risk, smaller gas purchasers, such as the City, can join a supplier pool by executing a main gas supplier agreement with a larger gas trading company. Larger trading companies provide a greater level of protection than the City could achieve alone due to size, scheduled volume, diversity of usage, and gas storage.

In December 2019, staff pre-qualified the 8 companies to bid to be the main gas supplier for the City. Staff issued a Request for Proposals and received responses from three qualified companies. Staff and ACES Power Marketing (the City's Power Management Services Provider) independently ranked the responses. Shell's proposal came in first place based on Roseville's rating criteria.

The Agreement will become effective on June 1, 2020 and extend for a five-year term through May 31, 2025. There is a 90-day notice of cancellation provision within the Agreement. This Agreement renews the existing main gas supplier agreement with Shell Energy North America L.P., authorized under City Council Resolution 15-105, and expiring on May 31, 2020.

FISCAL IMPACT

The Agreement sets out the terms and conditions for Shell to provide natural gas balancing services to the City which are estimated to be approximately \$30,000 per year. Transactions under this Agreement will be executed pursuant to Roseville's Energy Trading Authority Policy.

The cost of those transactions is included in the annual budget for the Electric Department. There is no additional budgetary impact.

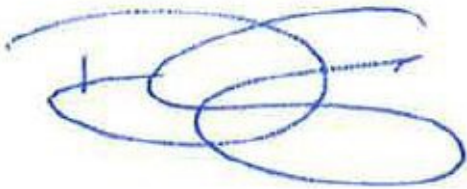
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. A gas supplier agreement meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Petra Wallace, Electric Risk and Compliance Supervisor

Michelle Bertolino, Electric Utility Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-130

Shell Energy Transaction Confirmation

RESOLUTION NO. 20-130

AUTHORIZING THE CITY MANAGER TO EXECUTE A TRANSACTION
CONFIRMATION WITH SHELL ENERGY NORTH AMERICA (US), L.P.,
ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a transaction confirmation for main gas supplier services, between the City of Roseville and Shell Energy North America (US), L.P., has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that the City Manager is hereby authorized to execute a transaction confirmation Shell Energy North America (US), L.P. with on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



SHELL ENERGY NORTH AMERICA (US), L.P.

TRANSACTION CONFIRMATION

Original Date: March 30, 2020

Trader: Rick Kunz
Commodity: Natural Gas

Endur No.:
Contract ID: 010-NG-BS-10165
Contract Date: December 1, 2006

CITY OF ROSEVILLE
2090 Hilltop Circle
Roseville, CA 95747
Attn: Power Supply Manager (or Settlements)
Phone: 916-774- 5658
Email: settlements@roseville.ca.us

This Revised Transaction Confirmation is subject to the NAESB Base Contract between SHELL ENERGY NORTH AMERICA (US), L.P. ("Shell Energy") and the CITY OF ROSEVILLE ("Roseville") dated December 1, 2006.

<u>Delivery Point</u>	<u>Designated Quantity</u>	<u>Contract Price</u>	<u>Type of Service</u>	<u>Period of Delivery</u>
See Definitions Below	0 to 50,000 MMBtu/day (See Below)	See Below	Firm (See Below)	June 1, 2020 through May 31, 2025 (per Section B, below)

A. Definitions:

Buyer means the CITY OF ROSEVILLE ("Roseville")

Seller means SHELL ENERGY NORTH AMERICA (US), L.P. ("Shell Energy")

Delivery Point means Shell Energy's PG&E Contracted Marketer Pool No. NBAA 1021.

Type of Service-Firm Shell Energy shall supply full requirements for Roseville's facilities less the fixed volumes of natural gas supplied by third parties.

Trading Day "Trading Day" shall be up to 6:00 a.m. prevailing Pacific time ("PPT") on a regular trading day as designated in the Trading Calendar immediately prior to the Gas Flow Day.

Trading Calendar "Trading Calendar" shall be the Next Day Trading Calendar for Physical Gas published by the Intercontinental Exchange ("ICE") for the applicable calendar year.

Intra-Day Trading Period "Intra-Day Trading Period" shall be the period after 6:00 a.m. prevailing Pacific time ("PPT") on a regular trading day as designated in the Trading Calendar immediately prior to

the Gas Flow Day and up to 2:00 p.m. prevailing Pacific time ("PPT") on the Gas Flow Day, if such Gas Flow Day is also a regular Trading Day

Gas Flow Day "Gas Flow Day" shall be the calendar day of actual gas use.

Imbalance Gas Flow Day "Imbalance Gas Flow Day" shall be the calendar day immediately following the Imbalance Trading Day.

Imbalance Trading Day "Imbalance Trading Day" shall be the NEXT Trading Day following the Gas Flow Day on which the imbalance occurred as designated in the Trading Calendar. (i.e. if the Gas Flow Day is Monday, the applicable Imbalance Trading Day is Tuesday for Imbalance gas flows on Wednesday; if the Gas flow Days are Friday through Sunday, the applicable Imbalance Trading Day is Monday for Imbalance gas flows on Tuesday.)

Daily Index Price "Daily Index Price" shall be the price reported in Platt's *Gas Daily* "Daily price survey" under the heading "Citygates" "PG&E Citygate", under the column "Midpoint" on the day published where "Flow date(s)" corresponds to the respective Gas Flow Day or Imbalance Gas Flow Day.

Monthly Index Price "Monthly Index Price" shall be the price as reported by *Natural Gas Intelligence* "NGI's Bidweek Survey," "California" "PG&E Citygate" under the column "avg.".

Day-Ahead Contract Quantity: "Day-Ahead Contract Quantity (DACQ)" means such quantity of Gas per Day, up to the "Designated Quantity" as Roseville may purchase from or sell to SHELL ENERGY for a particular Day, on the Trading Day. Shell Energy may, but shall not be obligated to sell a Day-Ahead Contract Quantity in excess of 50,000 MMBtu/Day. In the event Roseville fails to nominate the DACQ by 6:00 a.m. on the day before the Trading Day, the DACQ will be deemed to be zero.

Intra-Day Contract Quantity "Intra-Day Contract Quantity (IDCQ)" means such quantity of Gas per Day as Roseville purchases or sells to Shell Energy during the Intra-Day Trading Period. In the event Roseville fails to nominate the IDCQ within the Intra-Day Trading Period, the IDCQ will be deemed to be zero.

Imbalance Daily Quantity "Imbalance Daily Quantity (IDQ)" if actual meter usage on a Gas Flow Day is more or less than all scheduled gas quantities purchased and sold including, but not limited to, Month-Ahead Contract Quantity, Day-Ahead Contract Quantity, Intra-Day Contract Quantity, Third-Party Quantity delivered, and Qualifying Use Quantity, then Shell Energy will be deemed to be either a buyback from or a sell to Roseville such quantities.

Month Ahead Contract Quantity "Month-Ahead Contract Quantity (MACQ)" means a quantity of gas per day that Roseville purchases from Shell Energy for the upcoming Month. The MACQ must be delivered in equal daily quantities within the month delivered up to the Designated Quantity less any PPQ and HDQ. The MACQ confirmation must be executed no later than seven (7) Business Days prior to the first Business Day of the upcoming Month. The parties may, but are not obligated to, nominate and deliver an MACQ in excess of the Designated Quantity. If Roseville fails to nominate an MACQ within the time frame set forth above, the MACQ shall be deemed to be zero for the upcoming Month.

Third Party Pre-Pay Monthly Quantity "Third Party Pre-Pay Monthly Quantity (PPQ)" means such quantity of gas purchased by Roseville from third party suppliers under a Natural Gas Prepay Agreement with a predefined monthly schedule, and delivered at the Delivery Point for receipt into Shell Energy's Contracted Marketer Pool (PG&E No. 0602) in equal daily quantities. Shell Energy must receive notification of any PPQ for the upcoming month(s) no later than five Business Days prior to the first Business Day of the delivery month.

Third Party Physical Gas Hedge Daily Quantity "Third Party Physical Gas Hedge Daily Quantity (HDQ)" means any such quantity of gas per day purchased by Roseville from third party suppliers under a Natural Gas physical hedge Agreement with a predefined daily schedule, and delivered

at the Delivery Point for receipt into Shell Energy's Contracted Marketer Pool (PG&E No. 0602) in equal daily quantities. Shell Energy must receive notification of any HDQ for the upcoming day(s) no later than the Trading Day prior to the Day of delivery.

B. PERIOD OF DELIVERY

The Period of Delivery shall be from June 1, 2020 through May 31, 2025, however either Party shall have the right to terminate this Transaction Confirmation upon ninety (90) days' written notice to the other Party. Any termination shall be subject to the terms of the Base Contract.

C. SHELL ENERGY DELIVERIES OF GAS TO ROSEVILLE

Contract Price:

Month-Ahead Contract Quantity Price: The price for the MACQ shall be as mutually agreed by the parties, or in the absence of a mutually agreed price:

- For deliveries during November 1-March 31, the price shall be the Monthly Index Price plus \$0.015/MMBtu
- For deliveries during April 1-October 31, the price shall be the Monthly Index Price plus \$0.015/MMBtu

Day-Ahead Contract Quantity Price: For all DACQ volumes nominated on or before 6:00 a.m. PPT on the day before the Trading Day, the price for the DACQ shall be equal to the Daily Index Price, unless otherwise mutually agreed upon by the parties.

Intra-Day Contract Quantity Price: The price for the IDCQ shall be:

- the price mutually agreed upon by the parties, or
- In the absence of a mutually agreed upon price, the higher of the current or next day Daily Index Price plus \$.05/MMBtu for the Trading Day.

PPQ and HDQ Price: The price for all PPQ and HDQ volumes nominated by or on behalf of Roseville to SHELL ENERGY's Contracted Marketer Pool (PG&E No. 0602) shall be equal to \$0.00/MMBtu.

D. ROSEVILLE REDELIVERIES OF GAS TO SHELL ENERGY

Contract Price:

Day-Ahead Contract Quantity Price: For all redelivered DACQ volumes nominated on or before 6:00 a.m. PPT on the day before the Trading Day, the price for the DACQ shall be equal to the Daily Index Price, unless otherwise mutually agreed upon by the parties.

Intra-Day Contract Quantity Price: The price for the IDCQ shall be:

- the price mutually agreed upon by the parties, or
- In the absence of a mutually agreed upon price, the lower of the current or next day Daily Index Price minus \$.05/MMBtu for the Trading Day.

E. OPERATIONAL FLOW ORDERS

Buyer shall be responsible for any and all daily associated penalties, cash outs, or non-compliance charges imposed on Seller pursuant to PG&E Gas Rule No. 21 that are attributable to Buyer's Excess Imbalance and/or Buyer's Shortfall Imbalance being outside of the Transporter's tolerance band while Daily Balancing or OFO/EFO requirements are in effect. The price for Buyer's Daily Excess Imbalance and/or Buyer's Daily Shortfall Imbalance outside of the Transporter's tolerance band shall be equal to the Transporter's Tariff imbalance price per MMBtu. Notwithstanding anything to the contrary, SHELL ENERGY shall be responsible for only those penalties caused by SHELL ENERGY actually imposed

upon it by PG&E in the case where, after receiving proper notice from Roseville in accordance with Sections C and D above, SHELL ENERGY fails to schedule and deliver to the Delivery Point all contract quantities, except any PPQ or HDQ.

F. MONTHLY VOLUME DIFFERENTIAL (TRUE-UP)

If, at the conclusion of a delivery month, there is a volumetric difference between what is reported as the meter read from PG&E for the month and the volumes sold to Roseville (including MACQ, DACQ and IDCQ) for that month, the following pricing shall apply:

- (i) For all volumetric differences beyond five percent (5%) (the "Tolerance Band") of the monthly volumes burned, the price per MMBtu shall be sold or repurchased at a price equal to the average of the applicable Month's Daily Index Price.
- (ii) For all volumes that exceed the Tolerance Band:
 - a. Overburns: If the meter read from PG&E is greater than the volumes sold to Roseville (including MACQ, DACQ and IDCQ), Roseville shall pay to Shell Energy for the volumes that exceed the Tolerance Band at a price equal to the monthly average common high for the applicable Month's Gas Daily, "Daily Price Survey" per MMBtu.
 - b. Underburns: If the meter read from PG&E is less than the volumes sold to Roseville (including MACQ, DACQ and IDCQ), Shell Energy shall pay Roseville for, and dispose of, the volumes that exceed the Tolerance Band at a price equal to the monthly average common low for the applicable Month's Gas Daily, "Daily Price Survey" per MMBtu.

G. DODD-FRANK

Commodity Trade Option Representations: To the extent that this transaction (alone or combined with related transaction(s)) (the "Transaction") is deemed by either party or by the Commodity Futures Trading Commission ("CFTC") to be a commodity trade option under part 32 of the CFTC's regulations (including certain forward transactions with volumetric optionality that are not excluded from the definition of "swap"):

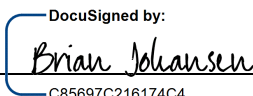
The seller of the option represents to the buyer of the option that in connection with this Transaction, the seller of the option is either (i) an eligible contract participant as defined in section 1a(18) of the Commodity Exchange Act ("Act"), as further jointly defined or interpreted by the CFTC and the Securities Exchange Commission or expanded by the CFTC pursuant to section 1a(18)(C) of the Act (an "ECP"), or (ii) a producer, processor, commercial user of or a merchant handling the commodity that is the subject of this Transaction, or the products or byproducts thereof, and is offering or entering into this Transaction solely for purposes related to its business as such.

The buyer of the option represents to the seller of the option that in connection with this Transaction the buyer of the option is a producer, processor, commercial user of or a merchant handling the commodity that is the subject of this Transaction or the products or by-products thereof and is offering or entering into this Transaction solely for purposes related to its business as such. Both parties hereby confirm to each other that this Transaction is intended to be physically settled so that, if exercised, the option would result in the sale of an exempt commodity for immediate or deferred delivery.

Notwithstanding anything contained in the Master Agreement to the contrary, this Confirmation shall only be effective when executed by both parties. Please confirm that the terms and conditions stated herein accurately reflect the agreement reached by Buyer and Seller by signing and returning by facsimile to Shell Energy at (858) 526-2140 and (713) 767-5414.

SHELL ENERGY NORTH AMERICA (US), L.P.

CITY OF ROSEVILLE, CALIFORNIA

BY:  _____
NAME: Brian Johansen
TITLE: Vice President
DATE: 3/30/2020

BY: _____
NAME: _____
TITLE: _____
DATE: _____



COUNCIL COMMUNICATION

CC #: 0739
File #: 0800-03

Title: Clean Fuel Reward Program - Electric Distribution Utility Joinder to the Clean Fuel Reward Governance Agreement
Contact: Rachel Radell-Harris 916-774-5627 raradell-harris@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.21.

RECOMMENDATION TO COUNCIL

Staff Recommends City Council adopt a resolution authorizing the City Manager to execute the Electric Distribution Utility Joinder to the Clean Fuel Reward (CFR) Governance Agreement.

BACKGROUND

Since early 2017, Roseville Electric Utility has been participating in California Air Resources Board (CARB) Low Carbon Fuel Standard (LCFS) program. Participation in the LCFS program allows the utility to receive credits and generate proceeds based on the number of electric vehicles charging in Roseville. Proceeds from the LCFS program are used to develop electric vehicle educational programs, develop customer tools related to electric vehicles, and to offer rebates for the purchase of electric vehicles and installation of charging stations.

To enhance the LCFS program, CARB, in collaboration with electric utilities throughout the state, developed a new statewide point-of-purchase rebate for electric vehicles called the CFR program. This point-of-purchase rebate will be available at any participating car dealership within the state and is funded by a portion of the electric utilities' LCFS proceeds. Utilities participating in the LCFS program are required to enter into the CFR Governance Agreement.

The CFR Governance Agreement establishes and defines the oversight and administrative structure for the new CFR program, the Steering and Advisory committees, the solicitation process for selecting program implementers, program costs, cost sharing, and various risk mitigation measures. Executing the agreement allows Roseville Electric Utility to continue to participate in the LCFS program and generate proceeds to support electric vehicle programs in the community.

FISCAL IMPACT

Roseville Electric Utility's initial cost is \$136,614 and is due by January 31, 2021. Following the

initial cost, the utility will annually transfer 20% of certain LCFS program proceeds to the CFR program through 2022, and 25% beginning in 2023. Funding for this agreement is available from the LCFS program proceeds and will be included in the utility's proposed FY 2020-21 budget.

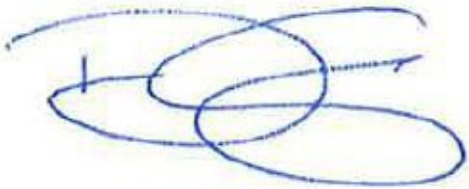
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. Participation in a clean fuel reward program meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Rachel Radell-Harris, Energy Services Account Representative

Michelle Bertolino, Electric Utility Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-128

Governance Agreement

Roseville EDU Joinder

RESOLUTION NO. 20-128

APPROVING AN ELECTRIC DISTRIBUTION UTILITY JOINDER TO THE CLEAN FUEL REWARD GOVERNANCE AGREEMENT, BY AND BETWEEN PACIFIC GAS & ELECTRIC, SAN DIEGO GAS & ELECTRIC COMPANY, SOUTHERN CALIFORNIA EDISON COMPANY, LOS ANGELES DEPARTMENT OF WATER & POWER AND SACRAMENTO MUNICIPAL UTILITY DISTRICT AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, since early 2017, Roseville Electric Utility has been participating in California Air Resources Board (CARB) Low Carbon Fuel Standard (LCFS) program; and

WHEREAS, to enhance the LCFS program, CARB, in collaboration with electric utilities throughout the state, developed a new statewide point-of-purchase rebate for electric vehicles called the Clean Fuel Reward (CFR) program; and

WHEREAS, electric utilities participating in the LCFS program are required to enter into the CFR Governance Agreement; and

WHEREAS, executing the agreement allows Roseville Electric Utility to continue to participate in the LCFS program and generate proceeds to support electric vehicle programs in the community; and

WHEREAS, the Electric Distribution Utility Joinder to the Clean Fuel Reward Governance Agreement, by and between Pacific Gas & Electric, San Diego Gas & Electric Company, Southern California Edison Company, Los Angeles Department of Water & Power and Sacramento Municipal Utility District and the City Of Roseville, has been reviewed by City Council.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Roseville that said Electric Distribution Utility Joinder to the Clean Fuel Reward Governance Agreement is hereby approved and the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

CLEAN FUEL REWARD PROGRAM
GOVERNANCE AGREEMENT
BY AND AMONG
PACIFIC GAS AND ELECTRIC COMPANY
SAN DIEGO GAS & ELECTRIC COMPANY
SOUTHERN CALIFORNIA EDISON COMPANY
LOS ANGELES DEPARTMENT OF WATER & POWER
SACRAMENTO MUNICIPAL UTILITY DISTRICT
AND
THE OTHER ELECTRIC DISTRIBUTION UTILITIES PARTY HERETO
DATED AS OF [·], 2019

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Draft Rev 8.

CLEAN FUEL REWARD PROGRAM

GOVERNANCE AGREEMENT

This Governance Agreement (“**Agreement**”) is made and entered into effective as of [MONTH ##], 2019 (the “**Effective Date**”), by and among Pacific Gas and Electric Company (“**PG&E**”), San Diego Gas & Electric Company (“**SDG&E**”), Southern California Edison Company (“**SCE**”), Los Angeles Department of Water & Power (“**LADWP**”), Sacramento Municipal Utility District (“**SMUD**”), and the other electric distribution utilities that may become a Party hereto during the term of the Agreement.

RECITALS

WHEREAS, the Low Carbon Fuel Standard (“**LCFS**”) regulation of the California Air Resources Board (“**CARB**”) (as may be amended from time to time, the “**LCFS Regulation**”) provides for the issuance of “base” credits for residential electric vehicle charging (“**LCFS Base Credits**”) to electric distribution utilities (“**EDUs**”) that participate in the LCFS program, each quarter;¹ and

WHEREAS, on September 27, 2018, CARB adopted amendments to the LCFS Regulation mandating the development and implementation of a statewide, common-design, EDU-run program to reduce the price of purchased and leased light-duty, zero emission, plug-in electric and electric hybrid vehicles (“**ZEVs**”) at the point of sale that is funded by EDUs’ LCFS Base Credit revenues that are assigned to the statewide program according to provisions in California Code of Regulations Title 13 sections 95481 and section 95483(c), and the Parties (as defined in Section 1.1 below) have agreed that the name for this program shall be the *Clean Fuel Reward Program* (“**CFR Program**”); and

WHEREAS, CARB’s amended LCFS Regulation² requires that the CFR Program be (i) initiated through the investor-owned utilities (“**IOUs**”), publicly-owned utilities (“**POUs**”) and electric cooperatives (“**COOPs**”) participating in the CFR Program, and (ii) funded by the EDUs with revenue from the sale of LCFS Base Credits pursuant to mandatory EDU contributions of such LCFS Base Credit revenue to the CFR Program in accordance with the minimum percentage amounts determined by EDU-size³ set forth in the LCFS Regulation (“**EDU Contributions**”); and

WHEREAS, the Parties hereby agree to establish and fund the CFR Program, per the direction of CARB, in an effort to accelerate the progress towards achieving the state and

¹ See California Code of Regulations Title 13 sections 95480, *et seq.*

² See September 27, 2018 CARB Resolution 18-34 available at: <https://www.arb.ca.gov/regact/2018/lcfs18/finalres18-34.pdf>

³ Participating EDUs’ minimum percentages of LCFS Credit Revenue that must be contributed to the CFR Program pursuant to the LCFS Regulations are set forth in Appendix A.

national clean energy and environmental policies through the execution of this Agreement in compliance with CARB's directives, including but not limited to implementation of a sliding-scale incentive program based on the ZEV's all-electric operating range and equity for all customers; and

WHEREAS, the Parties recognized that in order to develop and implement the CFR Program in a timely manner to support accelerating ZEV market adoption in California, one of the EDUs needs to serve as the initial administrator of the CFR Program through the start-up process and early stages of the CFR Program; and

WHEREAS, in the absence of another EDU volunteer to serve as the initial administrator, SCE agreed to serve in such role on a short term basis provided that the California Public Utilities Commission ("CPUC") directed and CARB has authorized SCE to do so, and the other EDUs agree to have SCE serve in such capacity subject to SCE's receipt of the CPUC's direction and CARB's authorization to do so; and

WHEREAS, SCE filed Advice Letter #AL 3982-E with the CPUC on April 2, 2019 (the "**Advice Letter**") to request the CPUC to authorize and direct SCE to serve as the initial short-term administrator of the CFR Program and to effect SCE's proposed implementation plan for the CFR Program on the terms and conditions set forth in the Advice Letter; and

WHEREAS, on August 15, 2019, the CPUC issued Resolution E-5015 adopting and approving the Advice Letter and SCE's proposed implementation plan for the CFR Program, subject to certain modifications set forth in such Resolution (the "**CPUC Approval**"); and

WHEREAS, on [REDACTED], 2019, CARB authorized and directed that the CFR Program be administered pursuant to this Governance Agreement and found that this Governance Agreement is in the public interest, is made for the public purposes stated in the LCFS Regulation, and is consistent with the LCFS Regulation (the "**CARB Authorization**"); and

WHEREAS, the Parties have agreed to appoint SCE as the initial administrator of the CFR Program consistent with the terms and conditions set forth in the Advice Letter, the CPUC Approval, the CARB Authorization, and this Agreement in order to expedite the implementation of the CFR Program for the benefit of the EDUs, CARB, and the State of California; and

WHEREAS, the Parties desire to enter into this Agreement to set forth the rights, powers, duties, obligations, and liabilities of the Parties concerning the conduct, operation, administration and funding of the CFR Program and any fees, costs, expenses and liabilities arising from the administration of the CFR Program by SCE as the Program Administrator, including those arising under this Agreement or any agreement entered into by SCE in connection with its role as the Program Administrator of the CFR Program, in each case pursuant to the terms and conditions of this Agreement; and

WHEREAS, each of the Large EDUs has executed and delivered this Agreement to one another on or before the Effective Date, and each additional Participating EDU who becomes a Party after the Effective Date shall execute and deliver a joinder to this Agreement pursuant to the provisions of Section 2.2 below.

NOW THEREFORE, in consideration of the mutual covenants, purposes and agreements set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

ARTICLE 1 CERTAIN DEFINITIONS

1.1. Defined Terms. As used in this Agreement, the following capitalized terms shall have the respective meanings specified in this Section 1.1.

- (a) **"Accounts"** has the meaning set forth in Section 4.3(b).
- (b) **"Additional LCFS Revenue Payments"** has the meaning set forth in Section 9.1(b)(ii).
- (c) **"Administrative Expenses"** has the meaning set forth in Section 5.1.
- (d) **"Advice Letter"** has the meaning set forth in the Recitals.
- (e) **"Advisory Committee"** has the meaning set forth in Section 3.4.
- (f) **"Affiliate"** means, with respect to any Person, any other Person controlling, controlled by, or under common control with such other Person. For purposes of this definition, "control," when used with respect to any Person, means the power to direct the management and policies of such Person, directly or indirectly, whether through the ownership of voting securities, by contract or otherwise, and the terms "controlling" and "controlled" have correlative meanings.
- (g) **"Agreement"** has the meaning set forth in the preamble.
- (h) **"Alternates"** has the meaning set forth in Section 3.3(c).
- (i) **"Annual Program Funds Amount"** means the total EDU Contributions deposited by all of the Participating EDUs during each calendar year following the Initial Funding Date, plus all interest and earnings thereon regardless of the Account in which such funds are held from time to time, during such calendar year.
- (j) **"Bond"** has the meaning set forth in Section 7.4.
- (k) **"CARB"** has the meaning set forth in the Recitals.
- (l) **"CARB Authorization"** has the meaning set forth in the Recitals.
- (m) **"CARB Representative"** has the meaning set forth in Section 3.3(a).
- (n) **"CFR Program"** has the meaning set forth in the Recitals.

(o) **“Claim”** or **“Claims”** means any and all actions, causes of action, complaints, charges, claims, costs, damages, deficiencies, demands, expenses, fees, indebtedness, injuries, interest, judgments, liabilities, losses, obligations, orders, penalties, remedies, suits, sums of money, Taxes, and torts, of whatever kind or character, whether in law, equity or otherwise, direct or indirect, fixed or contingent, foreseeable or unforeseeable, liquidated or unliquidated, known or unknown, matured or unmatured, absolute or contingent, determined or determinable.

(p) **“Collective Deposit Account”** has the meaning set forth in Section 4.3(b)(ii).

(q) **“Contribution Percentage”** means, with respect to any Party at any time, the resulting percentage determined by multiplying 100 by a fraction, the numerator of which shall be the amount of such Party’s Initial EDU Contribution, and the denominator of which shall be the aggregate total of shares all Initial EDU Contributions made by all Parties (including any former Parties) at such time. In calculating the respective Contribution Percentages of the Parties at an time, in the event that a court or arbitrator of competent jurisdiction has determined that any Party is released or excused from its obligation to pay, or is otherwise unable or not required to pay, its Contribution Percentage of any Indemnified Claim, then such Party’s Initial EDU Contribution shall be excluded from the denominator for purposes of calculating the respective Contribution Percentages with respect to such Indemnified Claim as well as to any Indemnified Claim thereafter to which such exclusion would be applicable according to such court or arbitral order or determination.

(r) **“COOPs”** has the meaning set forth in the Recitals.

(s) **“Covenant Not to Sue”** has the meaning set forth in Section 7.3(a).

(t) **“Covered Person”** has the meaning set forth in Section 3.5(a).

(u) **“CPUC”** has the meaning set forth in the Recitals.

(v) **“CPUC Approval”** has the meaning set forth in the Recitals.

(w) **“Deposit Account”** means any Collective Deposit and any Individual Deposit Account.

(x) **“Designated Account Holder”** means any Governmental Authority (including, for the avoidance of doubt, a POU) or not for profit entity that is identified and selected by the Program Administrator and the Steering Committee to hold the Program Funds Account pursuant to Section 4.3(b)(i) or any Collective Deposit Account pursuant to Section 4.3(b)(ii).

(y) **“Disbursement Account”** has the meaning set forth in Section 4.3(c).

(z) **“Earmarked Credits”** means any LCFS Base Credits that are deposited into any EDU’s LCFS balancing account by CARB at any time on or after the Final CPUC Approval Date.

(aa) **“EDU Contribution Account”** means, when used with respect to any Participating EDU at any time and from time to time, (i) if a Program Funds Account has been established and is being maintained at such time, the Program Funds Account, or (ii) if there is no Program Funds Account at such time, then either the Collective Deposit Account or the Individual Deposit Account for such Participating EDU into which such Participating EDU is instructed to make its EDU Contributions at such time in accordance with the instructions of the Program Administrator.

(bb) **“EDU Contributions”** has the meaning set forth in the Recitals.

(cc) **“EDUs”** has the meaning set forth in the Recitals.

(dd) **“Effective Date”** has the meaning set forth in preamble.

(ee) **“Excess Party”** has the meaning set forth in the Section 7.5(b)(iii).

(ff) **“FDIC”** means the Federal Deposit Insurance Corporation.

(gg) **“Final CPUC Approval Date”** the first date on which each of the following approvals from the CPUC shall have been received: (i) the CPUC Approval, (ii) the CPUC’s approval of the advice letter submitted by PG&E for approval to enter into this Agreement, and (iii) the CPUC’s approval of the advice letter submitted by SDG&E for approval to enter into this Agreement.

(hh) **“Financial Institution”** has the meaning set forth in Section 4.1(a).

(ii) **“Governmental Authority”** means the United States, or any state, county, city, municipal, territory, possession, foreign or other governmental or quasi-governmental entity or authority of any nature, including any courts, departments, commissions, boards, bureaus, agencies or other instrumentalities of any of the foregoing.

(jj) **“Holdback Funds”** has the meaning set forth in the Section 7.5(b)(iii).

(kk) **“Imaged Agreement”** has the meaning set forth in Section 10.19.

(ll) **“Implementer”** has the meaning set forth in Section 3.2(a).

(mm) **“Indemnified Claim”** means (i) when used in connection with the SCE Indemnified Persons, the SCE Indemnified Claims, and (ii) when used in connection with the Steering Committee Indemnified Persons, the Steering Committee Indemnified Claims.

(nn) **“Indemnified Persons”** means any of the SCE Indemnified Persons and the Steering Committee Indemnified Persons, each an **“Indemnified Person”**.

(oo) **“Individual Deposit Account”** has the meaning set forth in Section 4.3(b)(iii).

- (pp) **“Individual Deposit Account Agreement”** has the meaning set forth in Section 4.3(b)(iii).
- (qq) **“Initial EDU Contributions”** has the meaning set forth in Section 5.3.
- (rr) **“Initial Funding Date”** has the meaning set forth in Section 5.3.
- (ss) **“Invoice Subcommittee”** has the meaning set forth in Section 3.3(e).
- (tt) **“IOUs”** has the meaning set forth in the Recitals.
- (uu) **“Joinder”** has the meaning set forth in Section 2.2.
- (vv) **“LADWP”** has the meaning set forth in the preamble.
- (ww) **“Large EDU Members”** has the meaning set forth in Section 3.3(a).
- (xx) **“Large EDUs”** means PG&E, SDG&E, SCE, LADWP, and SMUD, each a **“Large EDU”**.
- (yy) **“Law Firms”** has the meaning set forth in Section 10.18.
- (zz) **“LCFS”** has the meaning set forth in the Recitals.
- (aaa) **“LCFS Base Credits”** has the meaning set forth in the Recitals.
- (bbb) **“LCFS Credit Revenue”** means the aggregate gross revenue received by any EDU at any time from the sale, transfer or other disposition of Earmarked Credits.
- (ccc) **“LCFS Non-Base Credit Revenue”** has the meaning set forth in the Section 7.5(b)(iii).
- (ddd) **“LCFS Regulation”** has the meaning set forth in the Recitals.
- (eee) **“Liability Reserve”** has the meaning set forth in Section 4.3(e).
- (fff) **“Master Account Agreement”** has the meaning set forth in Section 4.3(b).
- (ggg) **“Member”** has the meaning set forth in Section 3.3(a).
- (hhh) **“ME&O”** has the meaning set forth in Section 4.2(a).
- (iii) **“NCPA”** means the Northern California Power Agency.
- (jjj) **“Northern EDU Majority Vote”** has the meaning set forth in Section 3.3(a).
- (kkk) **“Northern EDU Member”** has the meaning set forth in Section 3.3(a).

(lll) **“Northern EDUs”** means any EDU listed as a Northern EDU on Schedule 1.1 hereto, as such Schedule may be amended from time to time hereafter; provided that in no event shall any Large EDU ever be listed as or deemed to be a Northern EDU.

(mmm) **“Operating Reserve”** has the meaning set forth in Section 4.3(e).

(nnn) **“PA Representative”** has the meaning set forth in Section 3.3(a).

(ooo) **“Participating EDU”** means any EDU that has (i) become a Party to this Agreement by either (A) executing and delivering a duly executed signature page to this Agreement to the other Parties on or prior to the Effective Date, or (B) executing and delivering a duly executed Joinder to this Agreement to the Program Administrator in accordance with the provisions of Section 2.2 following the Effective Date, and (ii) not withdrawn as a Party pursuant to Section 9.2 or been removed as Party pursuant to Section 9.3.

(ppp) **“Participating Northern EDU”** has the meaning set forth in Section 3.3(a).

(qqq) **“Participating Southern EDU”** has the meaning set forth in Section 3.3(a).

(rrr) **“Party”** means any entity that is a signatory to this Agreement as set forth on the signature pages hereto or that hereafter becomes a party to this Agreement by executing and delivering a duly executed Joinder to this Agreement to the Program Administrator in accordance with the provisions of Section 2.2 following the Effective Date, which entities are referred to collectively, as the **“Parties”**. For the avoidance of doubt, unless and until an entity that is not an EDU becomes a Party to this Agreement, each Party is a Participating EDU, and vice versa, and the terms may be used interchangeably.

(sss) **“Percentage Target”** has the meaning set forth in Section 5.2.

(ttt) **“Person”** means an individual, corporation (including any non-profit corporation), general or limited partnership, limited liability company, joint venture, estate, trust, unincorporated organization, association, organization or other entity or form of business enterprise or Governmental Authority.

(uuu) **“PG&E”** has the meaning set forth in the preamble.

(vvv) **“Policy”** has the meaning set forth in Section 7.4.

(www) **“POU”** has the meaning set forth in the Recitals.

(xxx) **“Program Administrator”** means SCE in its capacity as program administrator and administrative agent for the Parties with respect to the CFR Program for the term set forth in Section 3.1(b), or any successor Program Administrator appointed following the end of SCE’s term as Program Administrator in accordance with the provisions of Section 3.1(c) or any amendment to this Agreement entered into pursuant to the provisions thereof.

- (yyy) **“Program Agreement”** has the meaning set forth in Section 3.1(a).
- (zzz) **“Program Auditor”** has the meaning set forth in Section 4.1(a).
- (aaaa) **“Program Funds”** has the meaning set forth in Section 4.3(a).
- (bbbb) **“Program Funds Account”** has the meaning set forth in Section 4.3(b)(i).
- (cccc) **“Program Implementer”** has the meaning set forth in Section 4.1(a).
- (dddd) **“Program Implementer Representatives”** has the meaning set forth in Section 4.5(a).
- (eeee) **“Program Launch Date”** has the meaning set forth in Section 5.5.
- (ffff) **“Program Legal Matters”** has the meaning set forth in Section 10.18.
- (gggg) **“Program Material”** has the meaning set forth in Section 8.1.
- (hhhh) **“Related Entities”** has the meaning set forth in Section 7.1(a).
- (iii) **“Release”** has the meaning set forth in Section 7.1(b).
- (jjj) **“Released Claims”** means (i) when used in connection with the SCE Released Parties, the SCE Released Claims, and (ii) when used in connection with the Steering Committee Released Parties, the Steering Committee Released Claims.
- (kkkk) **“Released Parties”** means any of the SCE Released Parties and the Steering Committee Released Parties, each a **“Released Party”**.
- (lll) **“Remaining Liabilities”** has the meaning set forth in Section 9.1(b).
- (mmmm) **“Removal Vote”** has the meaning set forth in Section 9.3(a).
- (nnnn) **“Representative”** means, with respect to a particular Person, any director, member, partner, officer, employee, agent, consultant, advisor or other representative of such Person, including outside legal counsel, accountants and financial advisors; provided that in no event shall any Implementer, any other vendor or contractor retained by the Program Administrator on behalf of the CFR Program, or any of their respective Representatives be, or be deemed to be, a Representative of the Program Administrator or of any Participating EDU.
- (oooo) **“Required Percentage”** has the meaning set forth in Section 5.4.
- (pppp) **“Reserve Amounts”** means the aggregate amounts of Program Funds maintained at any time, and from time to time, in the Liability Reserve and the Operating Reserve.
- (qqqq) **“Reward Amount”** has the meaning set forth in Section 3.3(d)(iii)

(rrrr) **“RFI”** has the meaning set forth in Section 3.2(a).

(ssss) **“RFP”** has the meaning set forth in Section 3.2(a).

(tttt) **“SCE”** has the meaning set forth in the preamble.

(uuuu) **“SCE Indemnified Claim”** has the meaning set forth in Section 7.5(a)(i).

(vvvv) **“SCE Indemnified Person(s)”** has the meaning set forth in Section 7.5(a)(i).

(wwwv) **“SCE Released Claims”** has the meaning set forth in Section 7.1(a)(i).

(xxxx) **“SCE Released Part(y/ies)”** has the meaning set forth in Section 7.1(a)(i).

(yyyy) **“SDG&E”** has the meaning set forth in the preamble.

(zzzz) **“Shortfall Indemnity Termination Date”** has the meaning set forth in Section 7.9.

(aaaaa) **“Shortfall Party”** has the meaning set forth in the Section 7.5(b)(iii).

(bbbbb) **“Shortfall Payments”** has the meaning set forth in Section 9.1(b)(i).

(ccccc) **“Small EDU Members”** means the Northern EDU Member and the Southern EDU Member, each a **“Small EDU Member”**.

(ddddd) **“SMUD”** has the meaning set forth in the preamble.

(eeee) **“Southern EDU Member”** has the meaning set forth in Section 3.3(a).

(ffff) **“Southern EDUs”** means any EDU listed as a Southern EDU on Schedule 1.1 hereto, as such Schedule may be amended from time to time hereafter; provided that in no event shall any Large EDU ever be listed as or deemed to be a Southern EDU.

(ggggg) **“Southern EDU Supermajority Vote”** has the meaning set forth in Section 3.3(a).

(hhhhh) **“Steering Committee”** has the meaning set forth in Section 3.3(a).

(iiii) **“Steering Committee Indemnified Claim”** has the meaning set forth in Section 7.5(a)(ii).

(jjjj) **“Steering Committee Indemnified Person(s)”** has the meaning set forth in Section 7.5(a)(ii).

(kkkkk) **“Steering Committee Released Claims”** has the meaning set forth in Section 7.1(a)(ii).

(lllll) **“Steering Committee Released Part(y/ies)”** has the meaning set forth in Section 7.1(a)(ii).

(mmmmm) **“Tax” or “Taxes”** means any and all taxes, assessments, charges, duties, fees, levies, imposts or other governmental charges, including all federal, state, local or non-U.S. income taxes (including any tax on or based upon net income, gross income, or income as specially defined, or earnings, profits, or selected items of income, earnings or profits) and all gross receipts, payroll, employment, excise, severance, stamp, occupation, premium, environmental, customs duties, capital stock, profits, withholding, social security, unemployment, disability, real property, personal property, sales, use, ad valorem, transfer, service, franchise, license, windfall profits taxes, estimated, alternative or add-in minimum taxes and any other taxes of any kind whatsoever (whether or not requiring the filing of a Tax Return), together with any interest and any penalties and additions to tax.

(nnnnn) **“Tax Return”** means any return, declaration, report, claim for refund, or information return or statement relating to Taxes, including any schedules and amendments thereof.

(ooooo) **“Third Party Program Administrator”** means any successor Program Administrator appointed at any time following the end of SCE’s term as Program Administrator, in accordance with the provisions of Section 3.1(c) or any amendment to this Agreement entered into pursuant to the provisions thereof, that is not also a Participating EDU hereunder.

(ppppp) **“TOU”** has the meaning set forth in Section 4.2(b).

(qqqqq) **“Withdrawing Notice”** has the meaning set forth in Section 9.2(a).

(rrrrr) **“ZEVs”** has the meaning set forth in the Recitals.

1.2. Construction. As used herein, unless the context of this Agreement otherwise requires, (a) all references to Sections, Articles, Schedules or Exhibits are to Sections, Articles, Schedules or Exhibits of this Agreement; (b) each accounting term has the meaning assigned to it in accordance with GAAP; (c) words of any gender include each other gender; (d) words using the singular or plural number also include the plural or singular number, respectively; (e) the terms “hereof,” “herein,” “hereby,” “hereto” and derivative or similar words refer to this entire Agreement; (f) the word “including” shall mean “including, without limitation”; (g) the word “or” shall be used in the inclusive sense of “and/or” and not exclusive; (h) each reference to “\$” or “dollars” shall be to United States dollars; and (i) each reference to “days” shall be to calendar days.

ARTICLE 2 FORMATION OF CFR PROGRAM

2.1. Governance Agreement. This Agreement shall constitute a "Governance Agreement" (as that term is used in the Advice Letter and the CPUC Approval). The rights, powers, duties, obligations, and liabilities of the Parties to each other with respect to the CFR Program shall be determined pursuant to this Agreement. Each Party shall at all times comply with its respective duties, obligations, covenants and agreements set forth in this Agreement.

2.2. EDU Participation. As of the Effective Date, the Parties and Participating EDUs consist of PG&E, SDG&E, SCE, LADWP, and SMUD. Any EDU that desires to participate in the CFR Program and that is not already a Party hereto on the Effective Date as set forth in the preamble to this Agreement and the signature pages hereto, will be required to execute and deliver to the Program Administrator (with a copy to CARB) a joinder to this Agreement in the form attached hereto as Exhibit A (a "Joinder"), in order to become a Party and a Participating EDU hereunder.

ARTICLE 3 ADMINISTRATION OF CFR PROGRAM

3.1. SCE Appointment as Initial Program Administrator and Agent.

(a) Appointment. Each of the Participating EDUs (in its capacity as a Participating EDU) and each other current and future Party hereto hereby irrevocably appoints SCE as the initial Program Administrator, and hereby designates and authorizes SCE to act on its behalf as the Program Administrator under this Agreement and under any agreement approved by the Steering Committee that is entered into by the Program Administrator or any Participating EDU with respect to the CFR Program pursuant to the terms and conditions hereof (each, a "**Program Agreement**"), and authorizes the Program Administrator to take such actions on its behalf and to exercise such powers as are delegated to the Program Administrator by the terms hereof or thereof, together with such actions and powers as are reasonably incidental thereto or as otherwise determined by the Steering Committee, in each case for the time period set forth in Section 3.1(b) below. As used herein, Program Administrator shall mean SCE in its capacity as program administrator and administrative agent for the Parties with respect to the CFR Program under this Agreement or any Program Agreement, or any successor to SCE appointed by the Parties as Program Administrator pursuant to the terms of the replacement administrative and governance structure for the CFR Program implemented pursuant to Section 3.1(c) below. It is understood and agreed that the use of the terms "agent" and "administrator" herein or in any other Program Agreement (or any other similar term) with reference to the Program Administrator or SCE is not intended to connote any fiduciary or other implied (or express) obligations arising under agency doctrine of any applicable law. Instead, such term is used as a matter of market custom, and is intended to create or reflect only an administrative relationship between sophisticated contracting parties.

(b) Term. SCE is hereby appointed and authorized to serve in such role as Program Administrator from the Effective Date until the earliest to occur of (i) the third (3rd) anniversary of the commencement date of the third party contractor solicitation process

described in ARTICLE 4 below, unless SCE files an advice letter with the CPUC requesting authority to administer the CFR Program long term, in which case SCE will continue to serve as Program Administrator while the CPUC considers the appropriate disposition of the advice letter, and thereafter, if approved, in compliance with the CPUC resolution approving that advice letter, (ii) the date on which SCE is removed or ordered to be removed as Program Administrator by CARB or CPUC, and (iii) the effective date of resignation of SCE as Program Administrator as set forth in any written communication of resignation delivered by SCE to the other Parties after receiving CPUC authorization or approval to withdraw as Program Administrator.

(c) Replacement Structure. No later than the second anniversary of the Effective Date, the Steering Committee, with oversight from CARB, will develop and determine a replacement administrative and governance structure for the CFR Program that would go into effect upon the date of expiration or termination of SCE's appointment as Program Administrator in accordance with the provisions of Section 3.1(b), in order to ensure a seamless transition to a new administrative and governance regime following such date. The Parties will implement such replacement administrative and governance structure through an amendment to this Agreement establishing the terms of such replacement structure, which amendment shall be executed by all Parties no later than the date that is ninety (90) days before the third anniversary of the Effective Date.

3.2. Program Administrator Authority.

(a) Solicitation. The Program Administrator will serve as the principal agent of the Parties to develop, issue and administer the competitive Request for Proposals ("**RFP**"), Request for Information with Pricing ("**RFI**") or other such solicitations to acquire the services of one (or more) qualified firm(s) to develop, administer and implement the CFR Program, subject to the terms below. All Parties shall assist the Program Administrator in the performance of the associated responsibilities, as may be requested by the Program Administrator during the solicitation process, and the Program Administrator shall work with the Steering Committee in selecting the successful respondent(s) to the solicitation. The Steering Committee shall make recommendations to the Program Administrator regarding the competitive solicitation, selection of offers, and negotiation of third-party contracts. The Program Administrator shall have the discretionary contracting authority (i) to recommend the third party firms and institutions that it deems to be the best-qualified to perform the necessary and appropriate functions to develop, implement and maintain the CFR Program, which at a minimum will include the Program Auditor, Financial Institution, and Program Implementer (each, an "**Implementer**"), (ii) to negotiate the terms and conditions of any Program Agreement entered into with any Implementer in connection with the CFR Program, and (iii) subject to receipt of approval from the Steering Committee, to enter into Program Agreements with the Implementers as Program Administrator of the CFR Program on behalf of the Parties. The selection of each Implementer and the final form of each Program Agreement shall require the approval of both the Program Administrator and the Steering Committee. The mechanics of the solicitation process are set forth in further detail in ARTICLE 4 below.

(b) Post-Solicitation Program Administration. The Program Administrator will also serve as the principal agent of the Parties with respect to the administration of the CFR Program, in providing instructions to the Implementers and in enforcing the provisions of the

Program Agreements both during and following the solicitation process. All Parties shall assist the Program Administrator in the performance of the associated responsibilities necessary for the successful functioning and operation of the CFR Program, as may be requested by the Program Administrator from time to time in accordance with the provisions of this Agreement, the Program Agreements and the decisions and resolutions of the Steering Committee that will be responsible for oversight of the CFR Program.

(c) Reporting. The Program Administrator shall provide the Steering Committee quarterly reports on program administration, financial accounting and program results, which quarterly reports are anticipated to be delivered to the Steering Committee by the end of the first month that commences following the close of each of the first three calendar quarters, and by the last day of February following the close of the fourth calendar quarter and the calendar year. At any other time, the Program Administrator shall provide the Steering Committee such other information as may be reasonably requested by the Steering Committee with reasonable advance notice of not less than ten (10) business days for the Program Administrator to collect the requested information. The Program Administrator and the Steering Committee shall cause to be provided to the Participating EDUs on a quarterly basis such Tax information regarding the operation of the CFR Program as the Program Administrator determines is reasonably necessary for the Participating EDUs to calculate their Taxes with respect to the CFR Program.

3.3. Steering Committee.

(a) Composition. The CFR Program will be overseen by a joint steering committee (the “**Steering Committee**”) made up of seven (7) voting members (each, a “**Member**”), one (1) non-voting representative appointed by the Program Administrator (the “**PA Representative**”), and one (1) non-voting LCFS program implementation representative from CARB with oversight authority over the Steering Committee (the “**CARB Representative**”).

(i) The Members will consist of (1) one senior representative from and appointed by each Large EDU (the “**Large EDU Members**”), one (1) Member (the “**Southern EDU Member**”) selected by the Southern EDUs that are Participating EDUs (the “**Participating Southern EDUs**”), and one (1) Member (the “**Northern EDU Member**”) selected by the Northern EDUs that are Participating EDUs (the “**Participating Northern EDUs**”).

(ii)

(A) Southern EDU Member annual voting structure.

The Southern EDU Member shall be confirmed annually before each new calendar year and shall be either a representative from one of the Participating Southern EDUs or a qualified third-party representative, as determined by the Participating Southern EDUs. The Southern EDU Member shall be selected by at least a 2/3 majority vote (with each of the Participating Southern EDUs receiving a single vote each of equal weight) of the Participating Southern EDUs (“**Southern EDU Supermajority Vote**”), if the Member is a representative from one of the Participating Southern EDUs. If the Southern EDU Member is a third-party representative they shall be

selected by a unanimous vote of the Participating Southern EDUs. Votes shall be submitted by a senior representative (Assistant General Manager level or higher; or equivalent position(s)) through a conference call vote with an email confirmation of the final vote following the call. A proxy voting representative may be assigned by each Participating Southern EDU through a written notification from their senior representative to the other Participating Southern EDUs.

(B) Initial adoption period. Notwithstanding the provisions of Section 3.3(a)(ii)(A) above, selection of the Southern EDU Member will be conducted as set forth in this Section 3.3(a)(ii)(B) until December 31st, 2020. Once the first Participating Southern EDU has become a Party to this Agreement in accordance with the provisions of Section 2.2, it will select the initial Southern EDU Member. A new vote will be held among the Participating Southern EDUs to elect the Southern EDU Member each time a new Southern EDU becomes a Party to this Agreement in accordance with the provisions of Section 2.2, until December 31st, 2020. All votes during this initial adoption period will continue to follow the Southern EDU Supermajority Vote and senior representative voting requirements set forth in Section 3.3(a)(ii)(A). The Participating Southern EDUs will vote, in accordance with the provisions of Section 3.3(a)(ii)(A), to elect a Southern EDU Member for the 2021 calendar year before the end of 2020. After December 31, 2020, even if any new Southern EDU becomes a Party to this Agreement in accordance with the provisions of Section 2.2, there will be no new vote on a Southern EDU Member until the annual vote, unless a vote is called for under Section 3.4(b).

(iii) The Northern EDU Member shall be selected by vote of the Participating Northern EDUs (which vote may be cast directly by any such Participating Northern EDU or indirectly by a third party Representative granted a proxy by any such Participating Northern EDU to act on its behalf for purposes of such vote) representing more than 50% of the aggregate EDU Contributions made as of such date by all Participating Northern EDUs, as determined from time to time (a "**Northern EDU Majority Vote**"), and shall be either a senior representative from one of the Participating Northern EDUs or a member of the staff of NCPA or other qualified third party representative.

(iv) Each of the seven Members on the Steering Committee shall serve on the Steering Committee until such time as a replacement is designated for such Member pursuant to the provisions of Section 3.3(b) below. The Steering Committee shall maintain a Chair, a Vice-Chair and Secretary positions. The Members that hold these positions described in the preceding sentence shall be selected from within the Steering Committee by a vote thereof pursuant to Section 3.3(i), and shall, subject to the provisions of Section 3.3(b), maintain those positions for a oneError! Bookmark not defined. year term, unless agreed upon in writing by all Members (other than the Member holding the position). The Chair (or, in the absence of the Chair, the Vice-Chair) shall preside over all meetings of the Steering Committee, and the Secretary (or, in the absence of the Secretary, any person appointed by the Chair or, in the Chair's absence, by the Vice-Chair) shall take and maintain the minutes of the proceedings of the meetings of the Steering Committee.

(v) The Program Administrator will designate a staff person to serve as the PA Representative, who will be invited to participate in all meetings of the Steering Committee. The PA Representative will be the Program Administrator's non-voting

representative on the Steering Committee and will serve as the primary point of contact between the Program Administrator and the Steering Committee. The Program Administrator may remove and replace the PA Representative at any time with or without cause, effective upon written notice to the Members provided in accordance with the provisions of Section 10.14.

(vi) CARB will designate a senior LCFS program staff person to serve as the CARB Representative, who will be invited to participate in all meetings of the Steering Committee. The CARB Representative will monitor and provide feedback to and oversight of the Steering Committee regarding LCFS and vehicle incentive goals and implementation. CARB may remove and replace the CARB Representative at any time with or without cause, effective upon written notice to the Members provided in accordance with the provisions of Section 10.14.

(b) Member Removal, Resignation and Replacement. Each Large EDU may remove and/or replace any Large EDU Member appointed by it at any time with or without cause, effective upon written notice to the other Members. The Participating Southern EDUs may by a Southern EDU Supermajority Vote remove and/or replace the Southern EDU Member at any time with or without cause, effective upon written notice to the Members documenting the results of such Southern EDU Supermajority Vote. The Participating Northern EDUs may by a Northern EDU Majority Vote remove and/or replace the Northern EDU Member at any time with or without cause, effective upon written notice to the Members documenting the results of such Northern EDU Majority Vote. A Member may resign at any time from the Steering Committee by delivering his or her written resignation to the Chair (or in the absence of a Chair, the Vice Chair or Secretary). Any such resignation shall be effective upon receipt thereof unless it is specified to be effective at some other time or upon the occurrence of some other event. The Steering Committee's acceptance of a resignation shall not be necessary to make it effective. Any vacancy on the Steering Committee resulting from the resignation, removal, death or disability of a Member shall be filled by (i) if a Large EDU Member, the same Large EDU that appointed such Member pursuant to Section 3.3(a), (ii) if a Southern EDU Member, by written notice to the other Members documenting the results of the Southern EDU Supermajority Vote held to select a replacement for such Southern EDU Member, or (iii) if a Northern EDU Member, by written notice to the other Members documenting the results of the Northern EDU Majority Vote held to select a replacement for such Northern EDU Member, in each case with such appointment to become effective immediately upon delivery of written notice of such appointment to the Chair (or in the absence of a Chair, the Vice Chair or Secretary).

(c) Alternates. In addition to the Member removal and replacement procedures set forth in Section 3.3(b) above, each Large EDU, the Participating Southern EDUs (by Southern EDU Supermajority Vote), and the Participating Northern EDUs (by Northern EDU Majority Vote), may by written notice delivered to the Chair designate up to two (2) alternative representatives ("Alternates") who may, upon written or oral notice by such Party/Parties to the Chair that the Member designated by such Party/Parties is unable to attend any meeting (or participate in any action by written consent) of the Steering Committee (or any subcommittee thereof) and shall instead be represented by the Alternate designated in such notice, attend, participate and vote at any regular or special meeting of the Steering Committee (or any subcommittee thereof), or participate and vote in any action by written consent, in lieu of the regular Member designated by such Party/Parties. The Program Administrator may also

designate one or more alternate representatives to attend and participate in any meeting of the Steering Committee (or any subcommittee thereof) in lieu of the designated PA Representative. CARB may also designate one or more alternate representatives to attend and participate in any meeting of the Steering Committee (or any subcommittee thereof) in lieu of the designated CARB Representative.

(d) Roles and Responsibilities: The Steering Committee is responsible for strategic direction, program guidance, oversight of policy objectives, and overall governance and supervision of the CFR Program, subject to the oversight of CARB exercised through the CARB Representative's participation on the Steering Committee as provided by Section 3.3(a)(vi). These roles and responsibilities will include but not be limited to:

(i) participation with the Program Administrator in the development, review and selection processes related to the competitive solicitation process to select the Implementers, and final approval of the solicitation process, the selection of Implementers and the final form of the Program Agreements to be entered into with the Implementers;

(ii) reviewing and approving the CFR Program's budget and the initial starting balance for the CFR Program, each of which shall be submitted to the Steering Committee by the Program Administrator for review and approval;

(iii) approving the initial CFR rebate amount ("**Reward Amount**") and approving any required adjustments thereto or in the method of payment of any Reward Amounts, in each case as recommended by the Program Administrator following CARB approval of the methodology for determining the Reward Amount;

(iv) determining the process for approving payment of invoices for administrative and marketing functions, including Implementer invoices, in accordance with the provisions of ARTICLE 6, and the Steering Committee shall also have the authority to make any changes to the invoice approval processes set forth in ARTICLE 6 or otherwise as determined by the Steering Committee from time to time, in order to maintain the efficient operation of the CFR Program;

(v) determining whether to adjust the amounts specified to be held in the Liability Reserve or the Operating Reserve as set forth in Section 4.3(e) and the amount of any such increase, but in no event shall any such specified amounts be decreased without the prior written consent of the Program Administrator;

(vi) reviewing the performance of the CFR Program and recommending any required adjustments thereto;

(vii) approving the timing and content of public announcements about this Agreement and/or the CFR Program (as described in Section 8.2);

(viii) terminating this Agreement (as described in Section 9.1);

(ix) removing a Party as a party under this Agreement (as described in Section 9.3);

(x) amending this Agreement, or waiving, discharging, or terminating any provision hereof (as described in Section 10.7);

(xi) reviewing the quarterly reports and other information required to be provided by the Program Administrator under Section 3.2(c); and

(xii) any and all other roles and responsibilities for the Steering Committee set forth in this Agreement or in any Program Agreement.

(e) Subcommittees. The Steering Committee may, by resolution, designate from among the Members one or more subcommittees, each of which shall be comprised of two or more Members, and that, subject to the limitations set forth in the next sentence, shall have and may exercise any authority of the Steering Committee as the Steering Committee may delegate to it in the resolution forming such subcommittee. The Steering Committee shall not, and shall not have the power or authority to, designate or authorize any subcommittee with all of the powers and authority of the Steering Committee, or with the authority of the Steering Committee in reference to: (A) final approval of the initial Reward Amount or the amount of any adjustment thereto, (B) any proposed increase (or other adjustment) to the amounts specified to be held in the Liability Reserve or the Operating Reserve as set forth in Section 4.3(e), (C) final approval of payment of any invoice for Administrative Expenses (provided that the Steering Committee may create one or more subcommittees with the responsibility and authority to review, reject, negotiate, pre-approve and submit to the Steering Committee for final approval any or all such invoices (each, an "**Invoice Subcommittee**")), (D) altering or repealing any resolution of the Steering Committee that by its terms provides that it shall not be so amendable or repealable, or (E) final approval of any Implementers. The Steering Committee may dissolve any subcommittee or remove any member (or non-voting participant) of a subcommittee through a Steering Committee vote conducted pursuant to the provisions of Section 3.3(i) below at any time. The Parties anticipate that, in addition to an Invoice Subcommittee, potential subcommittees may include (but not be limited to) subcommittees to address dealer training, marketing and outreach, and financial forecasting. The Steering Committee and any subcommittee thereof, and their respective Members, may consult with and seek and rely upon information and advice from employees and representatives of any Participating EDUs, Implementers, Advisory Committee members, Governmental Authorities, legal counsel, independent accountants and other Persons as to matters which they believe to be within such Person's professional or expert competence. The Steering Committee shall designate a chair and secretary for each subcommittee. The chair (or in the absence of the chair, the secretary) shall preside over all meetings of the subcommittee, and the secretary (or, in the absence of the secretary, the chair or any person appointed by the chair) shall take and maintain the minutes of the proceedings of the meetings of the subcommittee. All minutes of subcommittee meetings shall be made available to all Steering Committee Members. If any member of the Advisory Committee is invited to a subcommittee meeting or a Steering Committee meeting, then the portion(s) of the minutes of such meeting during which such member of the Advisory Committee was present shall also be made available to all members of the Advisory Committee.

(f) Regular Meetings. Regular meetings of the Steering Committee shall be held no less than monthly during the first year, and quarterly thereafter, via a conference call at a date and time that is either (i) determined by the Chair (or in the absence thereof, by the Vice

Chair or Secretary) after consulting with the Members at the immediately preceding meeting, or (ii) scheduled by the Chair (or in the absence thereof, by the Vice Chair or Secretary) on not less than five (5) calendar days' notice to the Members, the PA Representative and the CARB Representative. All meetings (regular or special) of the Steering Committee shall be held by means of telephone or video conference or other communications device that permits all Members, the PA Representative and the CARB Representative participating in the meeting to hear each other, provided that if all Members agree any meeting may be held in person at a mutually agreed location. The Parties acknowledge and agree that the presence and participation of all Members (or their respective Alternates) on the Steering Committee at the meetings and proceedings of the Steering Committee is important for the successful development, implementation, operation and oversight of the CFR Program and, accordingly, each Party shall use its commercially reasonable efforts to have its respective Member (or Alternate) attend each meeting (regular and special) of the Steering Committee. To the extent reasonably practicable, any written materials for regular meetings of the Steering Committee shall be provided to all Members, the PA Representative and the CARB Representative not less than seventy-two (72) hours prior to the meeting. Unless specifically noted on such meeting materials or in the cover correspondence distributed with such meeting materials that such materials (or any portion thereof) are not to be distributed outside of the Steering Committee, each Member shall be free to distribute copies of the meeting materials to the Participating EDUs that such Member represents on the Steering Committee.

(g) Special Meetings. Special meetings of the Steering Committee to address emergency, urgent or other time sensitive matters shall be held on the call of the Program Administrator or any two (2) Members upon written notice to the Members, the PA Representative and the CARB Representative sent at least 2 business days prior to the meeting, or upon such shorter notice as may be approved by all the Members. To the extent reasonably practicable, any written materials for special meetings of the Steering Committee shall be provided to all Members, the PA Representative and the CARB Representatives not less than twenty-four (24) hours prior to the meeting (it being understood that it may not always be practicable to meet such a timeframe). Any Member may waive such notice as to himself or herself.

(h) Quorum; Voting Percentages. Members holding a majority of the voting percentages held by all Members (as described below in this Section 3.3(h)), shall constitute a quorum for the transaction of business of the Steering Committee. For the avoidance of doubt, as long as such a quorum is present, the Steering Committee may meet and act even if there are vacancies on the Steering Committee at such time, including, without limitation, during the time period following the Effective Date prior to the appointment of any Small EDU Member to the Steering Committee. At all times when the Steering Committee is conducting business at a meeting of the Steering Committee, a quorum of the Steering Committee must be present at such meeting. If a quorum shall not be present at any meeting of the Steering Committee, then the Members present at the meeting may adjourn the meeting from time to time, without notice other than announcement at the meeting, until a quorum shall be present. Until such time as SCE is no longer the Program Administrator, the voting percentages of the Members (which shall always total 100% in the aggregate) shall be:

Member

Voting Percentage

SCE's Member	33.0%
Each remaining Large EDU Member	12.5%
The Southern EDU Member	8.5%
The Northern EDU Member	8.5%

Unless previously modified pursuant to a replacement structure implemented by way of an amendment to this Agreement entered into pursuant to the provisions of Section 3.1(c), the following voting percentages set forth below will serve as the default replacement structure in the event of the replacement of the initial Program Administrator. In the event that another Large EDU replaces SCE as the Program Administrator, then its designated Member shall have a 33.0% voting percentage and SCE's Member shall have a 12.5% voting percentage, and the other voting percentages shall remain unchanged. In the event that a Participating Southern EDU replaces SCE as the Program Administrator, then such Participating Southern EDU shall have the sole power to appoint the Southern EDU Member and the Southern EDU Member shall have a 25.0% voting percentage, each Large EDU Member shall have a 13.3% voting percentage, and the Northern EDU Member shall have a 8.5% voting percentage. In the event that a Participating Northern EDU replaces SCE as the Program Administrator, then such Participating Northern EDU shall have the sole power to appoint the Northern EDU Member and the Northern EDU Member shall have a 25.0% voting percentage, each Large EDU Member shall have a 13.3% voting percentage, and the Southern EDU Member shall have a 8.5% voting percentage. In the event that the Program Administrator is not an EDU, then unless otherwise approved by the Steering Committee in connection with its approval of such replacement Program Administrator, the Program Administrator shall have no (0%) voting percentage, and each Large EDU Member shall have a 16% voting percentage, and the Southern EDU Member and the Northern EDU Member shall each have a 10% voting percentage.

(i) Vote Required for Action. Except as expressly set forth otherwise with respect to certain actions in this Agreement, (i) all actions of the Steering Committee must be taken at any duly scheduled or called meeting thereof at which a quorum is present and shall require the affirmative vote of Members (or of their respective Alternate or designated proxy as set forth below) holding a majority of the aggregate voting percentages held by all Members present at such meeting, and (ii) all actions of any subcommittee of the Steering Committee must be taken at any duly scheduled or called meeting of such subcommittee at which a quorum (i.e., a majority of the aggregate voting percentage held by all members of such subcommittee) is present and shall require the affirmative vote of Members (or of their respective Alternate or designated proxy as set forth below) holding a majority of the aggregate voting percentages held by all Members who are members of such subcommittee. Voting by proxy, which proxy must be in writing and signed by the Member or Alternate designated by the Party granting a proxy, granted to another Member (or Alternate therefor) will be allowed in case a Party with a Member on the Steering Committee is not able to have its designated Member or Alternate attend any regular or special meeting.

(j) Action by Written Consent. Notwithstanding anything herein to the contrary, any action of the Steering Committee (or any subcommittee thereof) may be taken

without a meeting if either (a) a written consent of Members holding at least sixty-six percent (66%) of the aggregate voting percentage held by all Members on the Steering Committee (or subcommittee), and which consent must include the signature of the Member (or Alternate) designated by the Program Administrator, shall approve such action; provided, that prior written notice of such action is provided to all Members, the PA Representative and the CARB Representative at least two (2) business days before such action is taken, or (b) a written consent constituting all of the Members on the Steering Committee (or subcommittee) shall approve such action. Such written consent shall have the same force and effect as a vote at a meeting where a quorum was present.

3.4. Advisory Committee

(a) The CFR Program's performance will be monitored by an advisory committee (the "**Advisory Committee**") comprised of representatives of stakeholder organizations (such as EDUs, regulatory agencies, industry groups, ZEV manufacturers and dealers, other industry representatives, environmental NGOs, social and economic justice groups, and other community-based organizations) that have a direct interest in the success of the CFR Program. A list of the stakeholders that the Parties anticipate inviting to join the Advisory Committee is set forth on Schedule 3.4(a) hereto, which Schedule may be amended from time to time by the Steering Committee.

(b) The purpose and role of the Advisory Committee will be to provide feedback to the Steering Committee on CFR Program performance and on market and industry trends and best practices to ensure a successful program. The Advisory Committee shall provide such information and feedback to the Steering Committee, and may make recommendations to the Steering Committee on program implementation, in response to consumer and dealer feedback, on metrics needed to evaluate program effectiveness and on CFR Program or process improvement, but the Advisory Committee shall have no management, operational, or decision-making power or authority, or any other type of power or authority, with respect to the CFR Program and neither the Steering Committee nor the Program Administrator shall be required to implement or follow any recommendations made by the Advisory Committee.

(c) The Advisory Committee and Steering Committee will meet or have conference calls or electronic meetings not less than twice a year to share feedback on CFR Program performance. The Steering Committee shall inform the Advisory Committee, by way of written or electronic notice to all members of the Advisory Committee or at an in-person, telephonic or electronic meeting of the Advisory Committee, prior to effecting any adjustment to the Reward Amount.

3.5. Duties

(a) This Agreement is not intended to, and does not, create or impose any fiduciary duty on any Party, the Program Administrator, the PA Representative, the CARB Representative, any Member or any member of the Advisory Committee appointed by a Participating EDU (each of the foregoing, a "**Covered Person**"). Furthermore, each of the Parties hereby waives any and all fiduciary duties that, absent such waiver, may be implied on any Covered Person by applicable law, and in doing so, acknowledges and agrees that the duties

and obligation of each Covered Person to each other, to any other Party and to the CFR Program with respect to the CFR Program or the matters that are the subject of this Agreement, are only as expressly set forth in this Agreement. The provisions of this Agreement, to the extent that they restrict the duties and liabilities of a Covered Person otherwise existing at law or in equity, are expressly agreed by the Parties to replace such other duties and liabilities of such Covered Person.

(b) Whenever in this Agreement a Covered Person is permitted or required to make a decision (including a decision that is in such Covered Person's "discretion" or under a grant of similar authority or latitude), the Covered Person shall be entitled to consider only such interests and factors as such Covered Person desires, including its own interests, and shall have no duty or obligation to give any consideration to any interest of or factors affecting any other Party, Member or third party. Whenever in this Agreement a Covered Person is permitted or required to make a decision in such Covered Person's "good faith," the Covered Person shall act under such express standard and shall not be subject to any other or different standard imposed by this Agreement or any other applicable law.

ARTICLE 4 SOLICITATION PROCESS.

4.1. Solicitation.

(a) As set forth above, the Steering Committee, under the oversight of the CARB Representative, will work with the Program Administrator to develop and ultimately approve the RFP/RFI processes to select the Implementers who will be engaged to develop, administer and implement the CFR Program, and the Program Administrator will serve as the primary agent of the Parties to issue and administer the RFP/RFI processes, subject to the terms below. The Parties agree that at least the following three Implementer functions will be required for the statewide CFR program: (i) implementation of the CFR program activities ("**Program Implementer(s)**"); (ii) a FDIC insured financial institution to receive, hold, and/or distribute CFR funds ("**Financial Institution**"); and (iii) an independent accounting firm to perform regular audits ("**Program Auditor**"). The Parties acknowledge and agree that additional Implementers may also be required as determined and approved by the Program Administrator and the Steering Committee.

(b) The Program Administrator will utilize a competitive solicitation/bidding process by issuing a Request for Proposal/Information with pricing (RFP/RFI) to potential Implementers to submit a proposal or quote on a specific commodity or service. The RFP/RFI bid process is a fair and standardized method for the Program Administrator to systematically obtain and demonstrate best value for goods and services procured and ensure that the CFR Program's vendor costs are reasonable according to prevailing market conditions.

(c) Competitive awards resulting from the RFPs/RFIs will be based upon the comparison of commercial and/or technical information from multiple independent suppliers. The RFP/RFI process will start with the development and definition of business requirements contained in a Statement of Work (SOW) or Specification. A list of prospective qualified suppliers will be established. The Program Administrator will receive input and approval from

the Steering Committee on the RFP/RFIs and development of an evaluation criteria prior to receipt of the bids. The Program Administrator will manage the competitive procurement process including the evaluation of the RFP responses. The successful bidder will be selected based on the established criteria (e.g., technical, commercial, supplier responsibility, and risk considerations). Negotiations are entered into, if necessary. Once negotiations with a proposed Implementer are complete, the Program Administrator will submit the proposed Program Agreement with such Implementer together with any requested supporting documentation to the Steering Committee for review and approval; provided that approval of each Program Implementer and the Program Auditor shall require the approval of Members holding at least sixty-six percent (66%) of the aggregate voting percentage held by all Members on the Steering Committee, which approval must include the approval of the Member designated by the Program Administrator and, as long as there are at least five (5) Members on the Steering Committee, the approval of at least three (3) other Members in addition to the Member designated by the Program Administrator. If the Steering Committee rejects the proposed Program Agreement with any vendor, it shall provide the Program Administrator with a detailed set of terms and conditions that must be included in the Program Agreement for the Steering Committee to provide its approval thereof. The Program Administrator shall then continue negotiations with the proposed Implementer or with other respondents to the solicitation process in order to meet the terms and conditions specified by the Steering Committee, and may then submit one or more revised proposals to the Steering Committee for approval. Following Steering Committee approval, the approved procurement award and Program Agreement will be delivered to the applicable vendor selected to serve as such Implementer.

4.2. Program Implementer(s).

(a) The Program Implementer(s) will consist of one or more third parties (which may include multiple contractors or a prime contractor that engages multiple subcontractors) to engage in Marketing, Education and Outreach (“ME&O”) activities for the CFR Program; establish, operate, and maintain the web-based portal for ZEV dealers to request reimbursement for payment of a Reward Amount and to submit documentation required to establish compliance with requirements for such reimbursement; and to review and evaluate the dealership requests for Reward Amount reimbursements to confirm whether they comply with the reimbursement requirements set forth in the applicable Program Agreement; and to perform such other services and obligations as are set forth in the applicable Program Agreement. The Program Implementer(s) will also assist with the collection of data, including all data necessary for participant and CFR Program reporting, and submit invoices to the Program Administrator to request payments owed to the Program Implementer or to approved subcontractors or vendors that have been engaged in accordance with the terms of the applicable Program Agreement. The Program Implementer(s) will perform, or contract for, other administrative and ME&O functions necessary and appropriate for the efficient operation of the CFR Program pursuant to the terms and conditions of the Program Agreements entered into with such Program Implementers by the Program Administrator on behalf of the Parties.

(b) A rate education and outreach implementation plan will be developed by the Program Implementer, in collaboration with the Steering Committee and the CPUC’s Energy Division, designed to educate ZEV purchasers and the public on time-of-use (“TOU”) rates (in general), other applicable rates and the benefits of off-peak charging. The rate education and

outreach plan will include a proposal for point of purchase or dealership educational materials. Rate education and outreach materials developed for the statewide CFR program will specify that there are a variety of rate options available depending on the different EDU service territories and will direct customers to contact their specific utility for more information. At a minimum, rate education will be required for all IOU customers who participate in the CFR Program.

(c) The Program Implementer's contract will require it to collect certain data, including but not limited to customer name, address, Vehicle Identification Number (VIN), ZEV make and model. The Program Implementer will provide this information to the Participating EDU that serves that particular customer, and to any non-Participating EDU that serves that customer that has executed and delivered the non-disclosure agreement with the Program Implementer required under Section 4.2(d). See Appendix B for a copy of the data collection template.

(d) In order to receive certain confidential customer related information from the Program Implementer (such as customer name, address, vehicle make, and other information relevant for purposes of grid planning, marketing of any additional utility ZEV programs and similar permitted uses), each Participating EDU shall be required to execute and deliver a non-disclosure agreement with the Program Implementer in a form negotiated by the Program Administrator and approved by the Steering Committee, which shall include the applicable confidentiality and data security requirements governing the handling of such information under applicable laws.

4.3. Financial Institution.

(a) The Financial Institution shall be a state or federally regulated bank or other financial institution that is insured by the FDIC and selected through a RFP/RFI process approved by the Steering Committee. The Financial Institution will receive and hold the EDU Contributions and all interest or other earnings thereon (collectively, "**Program Funds**") in designated Accounts (as defined and described below), and will disseminate Program Funds from the Accounts upon receipt of appropriate instructions from the Program Administrator, including (i) to pay reimbursements to ZEV dealers for their qualifying Reward Amount payments following verification thereof by the Program Implementer pursuant to the terms of its Program Agreement, and (ii) to pay other CFR Program costs, expenses and liabilities, including Administrative Expenses following approval of payment of the invoice by the Steering Committee or CARB in accordance with ARTICLE 6, and any amounts payable for or in connection with Indemnified Claims pursuant to Sections 7.5(b)(ii) and 7.5(b)(iii).

(b) Subject to such modifications to the below provisions as may be proposed by the Program Administrator and approved by the Steering Committee, the Program Administrator will enter into a master agreement with the Financial Institution (the "**Master Account Agreement**") that will provide for the establishment and maintenance of one or more bank accounts to hold, disburse or otherwise administer the Program Funds ("**Accounts**"). While the terms of the Master Account Agreement and the structure of the Accounts will not be able to be finalized until the completion of the RFP/RFI process to select a Financial Institution, the Parties currently anticipate that the basic financial structure of the CFR Program will follow

one of the structural models set forth below (with such modifications thereto as are proposed by the Program Administrator and approved by the Steering Committee), which are ranked in order of preference and which, to the extent a higher priority option is available prior to finalization of the Master Account Agreement, shall be approved by the Steering Committee in such order, subject to the provisions of Section 4.3(f) below and consideration of relevant Tax reporting and administration requirements:

(i) if the Program Administrator and the Steering Committee identify a Governmental Authority (including, for the avoidance of doubt, a POU) or not for profit entity that (A) is willing to serve as the record holder (under its name and federal Tax identification number) of an Account to hold all Program Funds (the **“Program Funds Account”**), and (B) they believe in good faith is appropriate to hold the Program Funds Account, then the Program Administrator shall negotiate the terms of one or more Program Agreements (each of which shall be subject to the approval of the Steering Committee in accordance with Section 3.2(a)) with such Designated Account Holder (as such term is defined in Section 1.1) and the Financial Institution pursuant to which the Designated Account Holder will (1) open and maintain the Program Funds Account in its name and federal Tax identification number, and (2) provide sole management authority and control over the Program Funds Account, all funds contained therein and all decisions pertaining thereto to the Program Administrator, which management authority and control shall in all cases be limited by and subject to the provisions of this Governance Agreement and any additional requirements established by CARB pursuant to the LCFS Regulation;

(ii) in the event that the Program Administrator and the Steering Committee have not identified a Designated Account Holder to hold the Program Funds Account, but have identified any Governmental Authority (including, for the avoidance of doubt, a POU) or not for profit entity that (A) is willing to serve as the record holder (under its name and federal Tax identification number) of an Account to hold the EDU Contributions (and all interest and earnings thereon) of more than one but less than all of the Participating EDUs (a **“Collective Deposit Account”**), and (B) they believe in good faith is appropriate to hold such Collective Deposit Account, then the Program Administrator shall negotiate the terms of one or more Program Agreements (each of which shall be subject to the approval of the Steering Committee in accordance with Section 3.2(a)) with each such Designated Account Holder and the Financial Institution pursuant to which the Designated Account Holder will (1) open and maintain such Collective Deposit Account in its name and federal Tax identification number, and (2) provide sole management authority and control over such Collective Deposit Account, all funds contained therein and all decisions pertaining thereto to the Program Administrator, which management authority and control shall in all cases be limited by and subject to the provisions of this Governance Agreement and any additional requirements established by CARB pursuant to the LCFS Regulation. For the avoidance of doubt, any Participating EDU that is not authorized to deposit its EDU Contributions into a Collective Deposit Account established pursuant to this Section 4.3(b)(ii) must establish an Individual Deposit Account in accordance with the provisions of Section 4.3(b)(iii) below; or

(iii) in the event that the Program Administrator and the Steering Committee have not identified (A) a Designated Account Holder to hold the Program Funds Account pursuant to Section 4.3(b)(i), or (B) one or more Designated Account Holders to hold

one or more Collective Deposit Accounts pursuant to Section 4.3(b)(ii) that, individually or in the aggregate, would hold the EDU Contributions for all Participating EDUs, then any Participating EDU that is not authorized to deposit its EDU Contributions into a Collective Deposit Account or, in the event there is no Collective Deposit Account, each Participating EDU, must establish its own individual deposit Account with the Financial Institution selected pursuant to Section 4.1(c) (each, an “**Individual Deposit Account**”) and will be required to execute and deliver, upon the Program Administrator’s request therefor, the separate Program Agreement with the Financial Institution creating and governing its Individual Deposit Account in the final form thereof negotiated by the Program Administrator for all Participating EDUs to deliver and as such final form has been approved by the Steering Committee (the “**Individual Deposit Account Agreement**”), as a condition to remaining as a Participating EDU and Party under this Agreement. The Individual Deposit Account Agreement shall grant the Program Administrator sole management authority and control over each Individual Deposit Account, all funds contained therein and all decisions pertaining thereto, which management authority and control shall in all cases be limited by and subject to the provisions of this Governance Agreement and any additional requirements established by CARB pursuant to the LCFS Regulation.

(c) In the event that the Program Administrator and the Steering Committee have not identified a Designated Account Holder to hold the Program Funds Account, the Program Administrator will establish one or more disbursement Accounts (the “**Disbursement Account**”) to be maintained for the purpose of paying all Reward Amount reimbursement payments to ZEV dealers (and, solely to the extent required by CARB pursuant to the LCFS Regulation and in accordance with the terms thereof, any carrying costs associated with any undue delay in reimbursement of Reward Amount payments to the ZEV dealers due to the fault of the Program Administrator), all Administrative Expenses, all payments to reimburse the Program Administrator for its (or its Affiliates’) payment of any Administrative Expenses, and all amounts payable for or in connection with Indemnified Claims pursuant to Sections 7.5(b)(ii) and 7.5(b)(iii). If there is a Program Funds Account, then all such payments, Administrative Expenses, reimbursement and amounts referenced in the preceding sentence will be paid out of the Program Funds Account. The Disbursement Account shall be held in the name of and under the federal Tax identification number of the Program Administrator, and the Program Administrator’s management authority and control over the funds in the Disbursement Account shall in all cases be limited by and subject to the provisions of this Governance Agreement and any additional requirements established by CARB pursuant to the LCFS Regulation.

(d) In the event that the Program Administrator and the Steering Committee have not identified a Designated Account Holder to hold the Program Funds Account, the Master Account Agreement shall set forth the terms and condition pursuant to which:

(i) when the Program Administrator delivers an instruction to the Financial Institution to make any payment of any Reward Amount to any ZEV dealer as verified by the Program Implementer, the Financial Institution will transfer from the Deposit Accounts to the Disbursement Account, pro rata from each Deposit Account (based on the respective then current account balances in each of the Deposit Accounts), the amounts necessary to pay such Reward Amount, and

(ii) when the Program Administrator delivers an instruction to the Financial Institution to make a payment of any Administrative Expense from the Administrative Account following approval of payment of the invoice from the Steering Committee or CARB in accordance with ARTICLE 6, the Financial Institution will transfer from the Deposit Accounts to the Disbursement Account, pro rata from each Deposit Account (based on the respective then current account balances in each of the Deposit Accounts), the amounts necessary to pay such Administrative Expense.

(e) A reserve of Program Funds totaling Ten Million Dollars (\$10,000,000.00) in the aggregate shall be maintained at all times following the Program Launch Date in the Program Funds Account or, if none, segregated among the Deposit Accounts in the manner and amounts determined by the Program Administrator but totaling Ten Million Dollars in the aggregate (the “**Liability Reserve**”). The Liability Reserve shall only be used by the Program Administrator as a reserve to cover and pay any and all amounts payable to any Indemnified Party in accordance with the indemnification provisions of Section 7.5(b), or to pay off any Remaining Liabilities following the termination of the CFR Program or this Agreement pursuant to the provisions of Section 9.1(b). In addition to the Liability Reserve, for each calendar year that ends following the Program Launch Date, an operating reserve shall be maintained in the Program Funds Account or, if none, segregated among the Deposit Accounts in the manner and amounts determined by the Program Administrator, in an amount equal to the CFR Program’s highest forecasted calendar month of expenditures projected for such year as set forth in the CFR Program budget for such year (the “**Operating Reserve**”). The Operating Reserve shall only be used by the Program Administrator as a reserve to cover and pay any and all amounts payable in accordance with the provisions of Section 4.3(d) and ARTICLE 6, or to any Indemnified Party in accordance with the indemnification provisions of Section 7.5(b), or to pay off any Remaining Liabilities following the termination of the CFR Program or this Agreement pursuant to the provisions of Section 9.1(b), in each case solely to the extent that there are insufficient Program Funds otherwise available to pay such amounts when due or required to be paid. Upon the request of the Program Administrator at any time, the Steering Committee is hereby authorized to adjust the respective amounts of the Liability Reserve and the Operating Reserve from time to time in an effort to ensure that adequate reserves for the payment of all costs, expenses, and liabilities (fixed or contingent) of the CFR Program, and all Claims pertaining thereto, are maintained at all times.

(f) Notwithstanding the foregoing or any other provision of this Agreement to the contrary, in the event that the Program Administrator determines in good faith that modifications to the foregoing structure, or an alternative Account structure, are necessary or appropriate in order to avoid any adverse Tax consequences to the Program Administrator or its Affiliates arising from such structure, the Program Administrator may call an emergency meeting for Steering Committee review and approval of any such modifications or alternative structures; provided that if the Program Administrator and the Steering Committee are unable to agree upon the modifications to be implemented within ten (10) business days following the initial issuance of the notice for such emergency meeting by the Program Administrator, the Program Administrator shall have the power, authority and discretion to implement such modifications or alternative structures as are determined appropriate by the Program Administrator, and the Program Administrator shall promptly notify the Steering Committee no

later than three (3) business days following the implementation of any such modifications or alternative structures that did not receive Steering Committee approval.

(g) Without limiting the provisions of Section 9.1(b) below, once any EDU Contribution is deposited into any Deposit Account or Program Funds Account, as the case may be, those funds and all interest and earnings thereon will become Program Funds and the Participating EDU or Designated Account Holder that is the holder of such Deposit Account or Program Funds Account, as the case may be, will not be able to withdraw, transfer or otherwise exercise any control over such funds (or any interest or earnings thereon) even if such Participating EDU withdraws or is removed from the CFR Program or this Agreement, or such Designated Account Holder desires to close such Collective Deposit Account or Program Funds Account; provided that for Tax purposes, such Participating EDU or Designated Account Holder that is the holder of such Deposit Account or Program Funds Account shall be considered the owner of such funds and all interest and earnings on such funds maintained in any Deposit Account will be reported as interest and earnings paid to or received by the Participating EDU or Designated Account Holder that is the record holder of such Account. All applicable bank fees and penalties for all Accounts are considered part of CFR Program Administrative Expenses and will be paid or reimbursed using Program Funds. No Participating EDU shall claim a Tax deduction in connection with a deposit to their respective EDU Contribution Account, except at such time and to the extent such funds are paid to ZEV dealers or to satisfy or reimburse Administrative Expenses or Indemnified Claims pursuant to Sections 7.5(b)(ii) and 7.5(b)(iii).

4.4. Program Auditor.

(a) Program Auditor. The Program Auditor will be an independent (i.e., not an Affiliate of any EDU), nationally-recognized (i.e., with 10 or more offices in at least 3 different states) accounting firm engaged to perform regular audits of all auditable aspects of the CFR Program, including the program controls and performance, the administration of the CFR Program and Administrative Expenses, including payment/reimbursement of expenses to the Program Administrator and Program Implementers, and Reward Amount payments/reimbursements to ZEV dealers. An annual audit of the CFR Program will be conducted by the Program Auditor each fiscal year with a published report to be issued within sixty (60) days following the completion of the audit (and in no event later than one hundred eighty (180) days following the end of the fiscal year). During the first year of the CFR Program following the Program Launch Date, an interim audit will be performed to test CFR Program controls and such audit will commence within six (6) months after the Program Launch Date with a report issued sixty (60) days after completion of the audit.

(b) Confidential and Market-Sensitive Information. Unless otherwise determined by the Steering Committee it is not anticipated that the Program Auditor will receive any market-sensitive information in connection with its audits and market-sensitive aspects of the CFR Program, such as, but not limited to, any trading activity in LCFS Base Credits by the EDUs, shall not be included within the scope of any audit by the Program Auditor. No Participating EDU is obligated to provide or disclose any of its confidential or market-sensitive information to any other Participating EDU under this Agreement. All Participating EDUs and Implementers shall be required to comply with any and all requests for information issued by

CARB in accordance with the LCFS Regulation or other applicable law, as well as to any other Governmental Authority with legal authority and jurisdiction to request such information.

(c) Audit Reports. The Program Auditor's audit reports shall be provided to all Participating EDUs, CARB, the CPUC, and the public. Any Participating EDU shall have the right at its own expense to review any non-confidential records and information underlying the Program Auditor's report on reasonable notice during regular business hours. The Program Auditor's reports shall contain all information necessary for the Program Administrator to comply with its reporting obligations to CARB as set forth in the CPUC Approval (and in any subsequent resolution issued by CARB), and each Party shall provide all information and assistance requested by the Program Auditor or the Program Administrator in order to comply with such reporting obligations to CARB or any other Governmental Authority.

(d) Program Auditor Insurance. The Program Auditor shall maintain insurance coverage of the specified types, with an endorsement as additional insured for the benefit of the Program Administrator, the Steering Committee and the Parties, and in amounts equal to or in excess of such minimum coverage amounts, in each case as are determined by the Steering Committee.

4.5. Program Implementer Qualifications. The RFP solicitation shall provide that third parties seeking to be Program Implementers must meet certain minimum requirements in order to submit an offer in response to the RFP. The RFP will provide that each Program Implementer will be required to execute and deliver one or more Program Agreements with the Program Administrator (and, if applicable, the Participating EDUs) that includes terms and conditions pursuant to which the Program Implementer, depending on the scope of work to be provided by such Program Implementer to the CFR Program, will:

(a) indemnify, defend, and hold each of the Participating EDUs, their Affiliates, and each of their respective Representatives harmless for and from any liabilities arising from or in connection with any negligent or intentional acts/omissions or mismanagement of Program Funds or other LCFS Credit Revenue by such Program Implementer, its contractors or subcontractors, or any of its or their respective Representatives (collectively, the "**Program Implementer Representatives**");

(b) have procured, and will cause Program Implementer Representatives and other vendors and contractors, to have or procure, sufficient insurance to cover their liabilities in such amounts equal to or in excess of such minimum coverage amounts as are determined by the Steering Committee to cover any negligence, errors or omissions, or mismanagement of the Program Funds, LCFS Credit Revenue or the CFR Program by the Program Implementer Representatives;

(c) have internal practices and procedures to prevent the risk of fraud or mismanagement (including terms and conditions that would apply to the evaluation of claims submitted and payment of Reward Amounts to participating ZEV dealers);

(d) have experience managing large-scale programs with aggregate funding in excess of \$100 million;

- (e) have technological experience creating web-based programs;
- (f) ensure that all agreements with subcontractors include terms for the protection of the Participating EDUs;
- (g) not be an Affiliate of the Program Administrator or any Participating EDU; and
- (h) have practices and procedures to prevent and prosecute fraud by ZEV dealers seeking reimbursement for Reward Amounts, such as through carefully crafted terms and conditions to which ZEV purchasers and point-of-sale entities must agree to receive the applicable Reward Amount for the ZEV purchaser.

ARTICLE 5

CFR PROGRAM EXPENSES; COST SHARING; LAUNCH

5.1. Program Administrator Expenses. The Parties hereby acknowledge and agree that Program Funds shall be used to pay and/or reimburse the Program Administrator (unless it is a Third Party Program Administrator) for, all costs, expenses, fees, Taxes, liabilities, and other amounts paid or incurred by the Program Administrator pursuant to or in connection with its service or status as Program Administrator ("**Administrative Expenses**"), including without limitation (but subject to the provisions of Section 5.2 below), (i) all amounts paid or incurred with respect to (A) any Implementers, or (B) any other contractors, vendors, attorneys, accountants, or other third parties in connection with the role of Program Administrator, (ii) an allocated portion of the fully-loaded labor costs (excluding bonus programs) for any employees who provide services in connection with the Program Administrator role and functions (which allocation shall be determined by the Program Administrator in good faith), (iii) an allocated portion of time and materials costs paid to independent contractors who provide services in connection with the Program Administrator role and functions (which allocation shall be determined by the Program Administrator in good faith), (iv) any reasonable travel related expenses incurred by any such persons described in the preceding clauses (ii) or (iii) associated with the Program Administrator role or functions, and (v) any non-labor related marketing costs such as media buy and collateral development expenses. For the avoidance of doubt, Administrative Expenses do not include costs, expenses, fees, Taxes, liabilities, and other amounts paid or incurred by SCE (or any successor thereof as Program Administrator that is a Participating EDU) to the extent paid or incurred in its capacity as a Participating EDU as opposed to in its capacity as Program Administrator. For purposes of illustrating the concept underlying the preceding sentence only, and without any limiting purpose or effect, any Taxes (including on any interest or other earnings on such account) incurred by the Program Administrator (or its Affiliates) in connection with any Disbursement Account, Program Funds Account, Collective Deposit Account, or Individual Deposit Account (except for the Program Administrator's own Individual Deposit Account, if any), or any other Account opened or maintained with the Financial Institution in connection with its role as Program Administrator constitute Administrative Expenses, but any Taxes incurred by SCE (or any successor thereof as Program Administrator that is a Participating EDU) on its own Individual Deposit Account into which its EDU Contributions will be made in its capacity as a Participating EDU would not constitute Administrative Expenses. To make the Program Administrator (unless it is a

Governmental Authority or not for profit entity exempt from income Tax)) whole on an after-Tax basis, Taxes constituting Administrative Expenses shall be calculated as if the Program Administrator were subject to Tax at, and any payment or reimbursement of Taxes constituting Administrative Expenses shall be grossed-up at, the highest combined federal and state marginal Tax rate for the applicable period in the Program Administrator's jurisdictions of operations, in each case as reasonably determined by the Program Administrator. The Parties acknowledge and agree that the Program Administrator (unless it is a Third Party Program Administrator) is entitled to payment and reimbursement from Program Funds (including all required EDU Contributions, but excluding, with respect to the Program Administrator's own internal costs that constitute Administrative Expenses, any interests or earnings thereon) for all Administrative Expenses, particularly in light of the fact that the Program Administrator is not requesting or receiving any administrator fee or compensation for its services as Program Administrator. Accordingly, each Participating EDU hereby covenants and agrees to make its respective EDU Contributions and to pay all other amounts payable by such Participating EDU in accordance with the terms and conditions of this Agreement, and CARB shall be tasked with monitoring each Participating EDU's compliance with these obligations in its respective Program Agreement and verifying the information received with the Financial Institution and CARB, as applicable. For the avoidance of doubt, the foregoing Administrative Expense payment and reimbursement rights shall not apply to any Program Administrator other than SCE or another Participating EDU that is appointed by the Steering Committee to serve as Program Administrator, as the Parties anticipate that any Third Party Program Administrator that may be engaged would receive fees for its service in such role and any additional expense payments or reimbursements to which it may be entitled would be expressly set forth in the engagement agreement with such Third Party Program Administrator.

5.2. Payment/Reimbursement of Administrative Expenses. The Program Administrator (unless it is a Third Party Program Administrator) upon approval by the Steering Committee is hereby authorized to (i) pay Administrative Expenses directly from Program Funds, and (ii) reimburse itself for any Administrative Expenses paid or incurred by the Program Administrator (or any of its Affiliates), in each case from Program Funds in the Program Funds Account or the Disbursement Account, as the case may be, and to transfer amounts from any Deposit Account into the Disbursement Account in order to make such payments and reimbursements, in each case in accordance with the provisions of ARTICLE 6 below and the Master Account Agreement; provided that the total amount of such payments and reimbursements of Administrative Expenses made by the Program Administrator in any calendar year following approval of the invoice therefor by the Steering Committee or CARB in accordance with the provisions of ARTICLE 6, shall in no event exceed ten percent (10%) (as such percentage may be adjusted pursuant to the following provisions of this Section 5.2, the "**Percentage Target**") of the total CFR Program budget of aggregate Program Funds for such calendar year. The Program Administrator and the Steering Committee shall monitor the aggregate amount of payments and reimbursements of Administrative Expenses approved and made in each calendar year to ensure that aggregate Administrative Expenses payments and reimbursements made in such calendar year do not exceed the Percentage Target. Given that the Parties cannot predict with any degree of accuracy what the actual annual Administrative Expenses will be until the RFP/RFI processes have concluded and the Implementers have been engaged, upon the request of the Program Administrator, but subject to the prior submission to, and approval by, the CPUC of a Tier 2 advice letter if still required in connection therewith by

the provisions of ordering paragraph 6 or ordering paragraph 7 of CPUC Resolution E-5015, the Steering Committee is hereby authorized to increase (but not decrease) the Percentage Target from time to time to ensure that all Administrative Expenses incurred in each calendar year are authorized to be paid or reimbursed, as the case may be, in a timely fashion and when due. Notwithstanding the foregoing, the provisions of this Section 5.2 shall not apply to any Third Party Program Administrator, as the terms and conditions on which any Third Party Administrator may handle or administrator any Program Funds or Accounts shall be set forth in and governed by the applicable Program Agreement(s) entered into with such Third Party Program Administrator.

5.3. Start-Up Funding. To fund the initial start-up costs of the CFR Program, including the amounts necessary to pay all Administrative Expenses and all Reward Amount reimbursement payments to ZEV dealers and to fund the initial Reserve Amount during the start-up phase of the CFR Program, the Participating EDUs will contribute a total of Fifty Million Dollars (\$50,000,000) in initial EDU Contributions in the aggregate (assuming full participation by all eligible EDUs in the CFR Program). Each Participating EDU shall be required to fund the amount set forth opposite such Participating EDU's name on Appendix A hereto as its initial EDU Contribution (the "**Initial EDU Contributions**"). Following the establishment of the initial Account structure for the CFR Program in accordance with the provisions of Section 4.3, each Large EDU shall be required to deposit the amount of its Initial EDU Contribution into its EDU Contribution Account (which shall be the applicable Program Funds Account, Collective Deposit Account or Individual Deposit Account designated for such Large EDU in accordance with the instructions of the Program Administrator), no later than sixty (60) days following the date on which the Master Account Agreement is executed by the Program Administrator and the Financial Institution (the "**Initial Funding Date**"). In the event the Account structure includes an Individual Deposit Account for such Large EDU, such Large EDU shall also execute and deliver its Individual Deposit Agreement to the Financial Institution on or prior to the earlier to occur of the Initial Funding Date and the date on which it makes its Initial EDU Contribution. Each other Participating EDU besides the Large EDUs shall be required (a) to deposit the amount of its Initial EDU Contribution into its EDU Contribution Account, which shall be the applicable Program Funds Account, Collective Deposit Account or Individual Deposit Account designated for such Participating EDU in accordance with the instructions of the Program Administrator, and (b) if such Program Administrator instructions provide that an Individual Deposit Account be established for such Participating EDU, such Participating EDU shall also execute and deliver its Individual Deposit Agreement to the Financial Institution, in each case for both clauses (a) and (b), no later than (i) January 31, 2021 for all Participating EDUs identified as Medium Publicly-owned Utilities on Appendix A, and (ii) January 31, 2023 for all Participating EDUs identified as Small Publicly-owned Utilities or Small Investor-owned Utilities on Appendix A; provided that if such other Participating EDU has not executed and delivered its Joinder to become a Party to this Agreement pursuant to Section 2.2 on or prior to (x) January 31, 2021 for the Medium Publicly-owned Utilities, or (y) January 31, 2023 for the Small Publicly-owned Utilities, then such Participating EDU shall have until the first anniversary of the date of its Joinder to deposit the amount of its Initial EDU Contribution into its EDU Contribution Account and, if applicable, to execute and deliver its Individual Deposit Account Agreement to the Financial Institution.

5.4. Periodic Funding Requirements. Each Participating EDU hereby covenants and agrees that, upon and following such Participating EDU's execution of this Agreement, in addition to making its required Initial EDU Contribution, it will also make additional aggregate EDU Contributions to its EDU Contribution Account during each calendar year in an amount equal to or greater than the applicable required percentage for such year of LCFS Credit Revenue generated by such Participating EDU during such calendar year as set forth opposite the name of such Participating EDU on Appendix A (the "**Required Percentage**"), and in accordance with the LCFS Regulation.

(a) Large EDUs' Periodic EDU Contributions. Each Large EDU shall be responsible for (i) identifying and tracking all Earmarked Credits deposited into its LCFS balancing account by CARB at any time on or after the Final CPUC Approval Date, and (ii) no later than the Initial Funding Date, depositing into its EDU Contribution Account the Required Percentage of the LCFS Credit Revenue generated by such Large EDU from the sale of all Earmarked Credits that have been deposited by CARB into such Large EDU's LCFS balancing account at any time on or prior to the end of the calendar quarter immediately preceding the quarter during which the Initial Funding Date occurs, and such Large EDU shall be required to sell all such deposited Earmarked Credits prior to the Initial Funding Date (provided that with respect to LCFS Credit Revenue generated by sales of any Earmarked Credits deposited into such Large EDU's LCFS balancing account during the calendar quarter that immediately precedes the quarter in which the Initial Funding Date occurs, the Large EDU shall have until the last day of such quarter in which the Initial Funding Date occurs to deposit its Required Percentage of such LCFS Credit Revenue generated therefrom into its EDU Contribution Account as required under this Section 5.4(a)(ii)). Commencing with the quarter in which the Initial Funding Date occurs, the Large EDUs will deposit their Required Percentage of their respective LCFS Credit Revenue into their respective EDU Contribution Accounts no less frequently than on a quarterly basis in arrears and in one or more transactions that shall be made no later than the end of the last business day of the following quarter. The following table sets forth the required deposit schedule of the Large EDUs' LCFS Credit Revenue for an illustrative year of the CFR Program:

Table X: Schedule of Large EDU Base Credit Revenue Transfer to CFR Program

Due Date for Deposit	Large EDU Required Deposits into its EDU Contribution Account
June 30	Large EDU deposits into its EDU Contribution Account the Required Percentage of its respective LCFS Credit Revenue from the sale of any Earmarked Credits deposited in its LCFS balancing account in Q1 of that year.
September 30	Large EDU deposits into its EDU Contribution Account the Required Percentage of its respective LCFS Credit Revenue from the sale of any Earmarked Credits deposited in its LCFS balancing account in Q2 of that year.
December 31	Large EDU deposits into its EDU Contribution Account the Required Percentage of its respective LCFS Credit Revenue from the sale of any Earmarked Credits deposited in its LCFS balancing account in Q3 of that year.
March 31	Large EDU deposits into its EDU Contribution Account the Required Percentage of its respective LCFS Credit Revenue from the sale of any Earmarked Credits deposited in its LCFS balancing account in Q4 of the previous year plus any "true up" revenue from the previous calendar year.

If any Large EDU has any Earmarked Credits deposited into its LCFS balancing account by CARB in any quarter that remain unsold at the end of such quarter, the Large EDU will track such Earmarked Credits and contribute the Required Percentage of the LCFS Credit Revenue generated therefrom to its EDU Contribution Account in the immediately following quarter, in which quarter such Earmarked Credits must be sold. Each Large EDU will be required to sell all Earmarked Credits deposited into its LCFS balancing account by CARB each quarter by no later than the end of the following quarter. By March 31st of each year, each Large EDU will be responsible for truing up and depositing into its EDU Contribution Account its aggregate required EDU Contributions for the entire previous calendar year. Notwithstanding the foregoing, the Steering Committee shall have the power and authority to waive or suspend the aforementioned timing requirements for when sales of Earmarked Credits held in the respective LCFS balancing accounts of the Large EDUs must take place should the Steering Committee determine that market conditions or other extenuating factors make such waiver or suspensions (which would apply as to all Large EDUs) prudent, and the Steering Committee shall promptly notify all Large EDUs of any such waiver or suspension. The Steering Committee shall grant an extension of the aforementioned timing requirements to any Large EDU, on an individual case-by-case basis, if the Large EDU has demonstrated to the satisfaction of the Steering Committee that it is utilizing all reasonable efforts to consummate the sale of its Earmarked Credits in a diligent and timely manner, but needs additional time to complete all sales required in order to deposit its full Required Percentage of LCFS Credit Revenue.

(b) Other Participating EDUs' Periodic EDU Contributions. Each EDU that is not a Large EDU shall be responsible for (i) identifying and tracking all Earmarked Credits deposited into its LCFS balancing account by CARB at any time on or after the Final CPUC Approval Date, and (ii) within sixty (60) days following such EDU's execution of this Agreement or a Joinder hereto, depositing into its EDU Contribution Account the Required Percentage of the LCFS Credit Revenue generated by such EDU from the sale of all such Earmarked Credits deposited into its LCFS balancing account by CARB at any time on or prior to the end of the calendar year immediately preceding the year during which such EDU becomes a Party to this Agreement, and each such EDU shall be required to sell all such deposited Earmarked Credits prior to such 60th day following such EDU's execution of this Agreement or a Joinder hereto. Each other Participating EDU besides the Large EDUs will also deposit its Required Percentage of its respective LCFS Credit Revenue received in any calendar year commencing with the calendar year in which it becomes a Participating EDU into its respective EDU Contribution Account no less frequently than on an annual basis in arrears and in one or more transactions that shall occur no later than March 31st of the following year. All such Participating EDUs shall be required to sell all of the Earmarked Credits deposited by CARB into its LCFS balancing account during any calendar year in such calendar year. Notwithstanding the foregoing, the Steering Committee shall have the power and authority to waive or suspend the aforementioned timing requirements for when sales of Earmarked Credits held in the respective LCFS balancing accounts of the other Participating EDUs must take place should the Steering Committee determine that market conditions or other extenuating factors make such waiver or suspensions (which would apply as to all such other Participating EDUs) prudent, and the Steering Committee shall promptly notify all such Participating EDUs of any such waiver or suspension. The Steering Committee shall also have the power and authority to grant an extension of the aforementioned timing requirements to any Participating EDU, on an individual case-by-case basis, that has demonstrated to the satisfaction of the Steering Committee that it is utilizing all reasonable efforts to consummate the sale of its Earmarked Credits in a diligent and timely manner, but needs additional time to complete all sales required in order to deposit its full Required Percentage of LCFS Credit Revenue.

(c) Steering Committee. Notwithstanding the foregoing, the above annual deposit schedules for the Participating EDUs set forth in Sections 5.4(a) and 5.4(b) above shall be reviewed by the Steering Committee at a minimum of every three years, and whenever the Program Administrator requests in good faith any modification to any such schedule, and the deposit schedule shall be updated from time to time if necessary as determined by the Steering Committee.

5.5. CFR Program Commencement. The Parties shall commence the CFR Program following the satisfaction of the following conditions: (i) SCE, PG&E and SDG&E shall have received any additional approval or consent of the CPUC to execute and deliver this Agreement as may be required by the CPUC Approval; (ii) CARB Authorization shall have been received; (iii) each Large EDU shall have duly executed and delivered this Agreement to the other Large EDUs; (iv) Members holding at least a majority of the voting percentages specified to be held by all Members as set forth in Section 3.3(h), shall have been appointed to the Steering Committee pursuant to the provisions of Section 3.3(a); (v) the Financial Institution, Program Auditor and the Program Implementer responsible for administering and paying Reward Amount reimbursement payments to ZEV dealers shall have been selected and engaged through duly

executed and delivered Program Agreements, and any preconditions to commencement of the CFR Program set forth in such Program Agreements shall have been satisfied or been duly waived by the Steering Committee and the Program Administrator; (vi) each Large EDU shall have deposited its Initial EDU Contribution into its EDU Contribution Account, the Liability Reserve and the Operating Reserve shall have been funded using such Initial EDU Contributions, and, to the extent instructed by the Program Administrator pursuant to Section 4.3(b), the Financial Institution and each Large EDU shall have duly entered into their respective Individual Deposit Account Agreement; (vii) the Steering Committee has approved the initial Reward Amount pursuant to the provisions of Section 3.3(d)(iii); (viii) the Parties shall have received approval or a legal opinion from CARB that the LCFS Credit Revenue may be used to compensate all CFR Program costs and expenses including, subject to Section 5.2 and the other provisions of this Agreement, any Administrative Expenses and any Indemnified Claims using Reserve Amounts and other Program Funds under this Agreement; (ix) the Program Administrator shall have made a solicitation to procure, or have otherwise approached insurance or bonding providers to procure, a Policy or Bond to cover Claims pertaining to the CFR Program and, to the extent commercially available, shall have procured such Policy or Bond in accordance with the provisions of Section 7.4; and (x) at the written request of the Program Administrator, the Steering Committee shall have issued its approval to commence the CFR Program and to authorize the offer and payment of the initial Reward Amount thereunder by issuance of a joint press release on behalf of all Participating EDUs announcing the official commencement and launch of the CFR Program. The CFR Program shall officially commence on the date specified in such joint press release as the official start date of the CFR Program (the **"Program Launch Date"**).

ARTICLE 6

APPROVAL AND PAYMENT OF INVOICES

6.1. Implementer Invoices. The Program Agreement with each Implementer shall set forth the terms and conditions for submission of all Implementer invoices to the Program Administrator for payment. Following receipt of any invoice from any Implementer, or from any other contractor, vendor, attorney, accountant, or other third party in connection with the Program Administrator's role and responsibilities as Program Administrator and that the Program Administrator has not paid directly and submitted for reimbursement as an Administrative Expense that was paid by the Program Administrator in accordance with the provisions of Section 6.2 below, the Program Administrator shall submit such invoice (along with any other supporting documents submitted therewith) to the Steering Committee and/or the applicable Invoice Subcommittee. The CARB Representative shall receive copies of all invoices submitted to the Steering Committee. Following final approval of any such invoice by the Steering Committee or CARB, the Program Administrator shall authorize and instruct the Financial Institution to pay such invoice as an Administrative Expense from the Program Funds Account or the Disbursement Account, as applicable. Any amounts incurred in connection with any delay in approval or payment of any invoice, including any interest, fees, charges, penalties or other amounts, shall also be paid as an Administrative Expense from the Program Funds Account or the Disbursement Account, as applicable.

6.2. Program Administrator Invoices. In the event that the Program Administrator (or any Affiliate thereof) pays any Administrative Expenses directly, including any

Administrative Expenses paid or incurred by the Program Administrator prior to the Program Launch Date, the Program Administrator shall submit an invoice therefor (along with any reasonably requested supporting documentation) to the Steering Committee and/or the applicable Invoice Subcommittee. The CARB Representative shall receive copies of all invoices submitted to the Steering Committee. Following final approval of any such invoice by the Steering Committee or CARB, the Program Administrator shall authorize and instruct the Financial Institution to pay such invoice as an Administrative Expense from the Program Funds Account or the Disbursement Account, as applicable.

6.3. Reward Amount Payments. For the avoidance of doubt, Reward Amount payments and reimbursements shall not be subject to the invoice, approval and payment procedures set forth in this ARTICLE 6, and shall in no event be deemed to be Implementer or vendor invoices. Reward Amount payments and reimbursements shall be handled pursuant to the provisions of Section 4.3(c)(i) and the applicable Program Agreements with the Program Implementer and the Financial Institution, and shall in no event require any review or approval of the Steering Committee or any subcommittee thereof, but are subject to audit by the Program Auditor.

ARTICLE 7

RELEASE, COVENANT NOT TO SUE, INSURANCE AND INDEMNIFICATION

7.1. Release and Waiver.

(a) Each Party, on its own behalf, and on behalf of its successors, assigns, direct and indirect subsidiaries and Affiliates (collectively, "**Related Entities**"), does hereby irrevocably, unconditionally, voluntarily, knowingly, fully, finally, completely, and forever waive and disclaim, and release and discharge:

(i) SCE, and each of its direct and indirect subsidiaries, Affiliates, divisions, successors, assigns and predecessors and each of its and their direct and indirect Representatives, successors, and assigns, individually and collectively (each, a "**SCE Released Party**" and collectively, the "**SCE Released Parties**"), from, against and with respect to, any and all Claims that such Party or its Related Entities ever had or now has, or may hereafter have or acquire, against any of the Released Parties by reason of any and all acts, omissions, events, circumstances or facts existing or hereafter occurring that, directly or indirectly, arise out of, result from, relate to, or are otherwise connected with or involving SCE's performance or non-performance in its role, capacity or status as Program Administrator, or its actions or inactions as Program Administrator or with respect to the administration, management or oversight of the CFR Program, including, without limitation, the RFP/RFI processes, the selection of the Implementers, the performance or non-performance of any Implementer, and any management or oversight of the Implementers ("**SCE Released Claims**"); provided that in no event shall SCE Released Claims include or be deemed to include Claims arising from the SCE Released Party's own fraud, willful injury to the person or property of another, or violation of law whether willful or negligent, or otherwise against public policy pursuant to California Civil Code Section 1668; and

(ii) each Member, each Alternate and each EDU that appoints or employs such Member or Alternate, individually and collectively (each, a **"Steering Committee Released Party"** and collectively, the **"Steering Committee Released Parties"**), from, against and with respect to, any and all Claims that such Party or its Related Entities ever had or now has, or may hereafter have or acquire, against any of the Released Parties by reason of any and all acts, omissions, events, circumstances or facts existing or hereafter occurring that, directly or indirectly, arise out of, result from, relate to, or are otherwise connected with or involving such Member's or Alternate's performance or non-performance in his or her role, capacity or status as a Member or Alternate, or his or her actions or inactions as a Member or Alternate on the Steering Committee or with respect to the Steering Committee's administration, management or oversight of the CFR Program, including, without limitation, the RFP/RFI processes, the selection of the Implementers, the performance or non-performance of any Implementer, and any management or oversight of the Implementers (**"Steering Committee Released Claims"**); provided that in no event shall Steering Committee Released Claims include or be deemed to include Claims arising from the Steering Committee Released Party's own fraud, willful injury to the person or property of another, or violation of law whether willful or negligent, or otherwise against public policy pursuant to California Civil Code Section 1668.

(b) Each Party, itself and for its Related Entities, expressly acknowledges and agrees that it has executed and delivered this Agreement with the intention that the release and waiver set forth in this Section 7.1 (the **"Release"**) be a general release and waiver to the full extent provided herein. Each Party, itself and for its Related Entities, expressly acknowledges and agrees that there is a possibility that subsequent to the execution of this Agreement, it will discover facts or incur or suffer Claims specifically related to Released Claims which were unknown or unsuspected at the time this Agreement was executed, and which if known by it at that time may have materially affected its decision to execute this Agreement or to grant the Release provided for herein. Each Party, itself and for its Related Entities, expressly acknowledges and agrees that it has by reason of this Agreement, and the Release contained herein, it is assuming any risk of such unknown facts and such unknown and unsuspected Released Claims. Each Party, itself and for its Related Entities, expressly acknowledges and agrees that it has been advised of, and does hereby specifically and expressly waive and release all rights under, the provisions of Section 1542 of the Civil Code of California, which provides as follows:

"A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS THAT THE CREDITOR OR RELEASING PARTY DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF EXECUTING THE RELEASE AND THAT, IF KNOWN BY HIM OR HER, WOULD HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR OR RELEASED PARTY."

Notwithstanding any such provisions or similar laws, this Agreement shall constitute a full release of Released Claims in accordance with its terms. Each Party, itself and for its Related Entities, knowingly and voluntarily waives the provisions of Section 1542 and any other such statutes, laws, or rules of similar effect, and acknowledges and agrees that this waiver is an essential and material term of this Agreement and was separately bargained for, and without such waiver (i) SCE would not have agreed to serve as Program Administrator and would not have entered into this Agreement, and (ii) each Member and each Alternate would not have agreed to

serve as a Member or Alternate, as the case may be, on the Steering Committee. Each Party, itself and for its Related Entities, hereby represents that it has been advised by its legal counsel, and that it understands and acknowledges the significance and consequence of the Release set forth herein and of this waiver of Section 1542 and any other such statutes, laws, or rules of similar effect.

7.2. Covenant Not To Sue.

Each Party, on its own behalf and on behalf of each of its Related Entities, irrevocably covenants and agrees never to sue, commence or prosecute any action or other proceeding against, or make any Claim or demand upon any Released Party, directly or indirectly, in respect of any of the Claims or matters waived, disclaimed, released or discharged in respect of such Released Party pursuant to Section 7.1 above, or in respect of any of the Claims or matters purported to be waived, disclaimed, released or discharged in respect of such Released Party pursuant to Section 7.1 above notwithstanding the failure of any court or arbitrator of competent jurisdiction to enforce or validate any provision thereof.

7.3. Effect of Release and Covenant Not to Sue.

(a) Enforcement. Each of the Release set forth in Section 7.1 and the covenant not to sue set forth in Section 7.2 (the “**Covenant Not to Sue**”) may be pleaded by any of the Released Parties as a full and complete defense and may be used as the basis for an injunction against any action at law or equity instituted or maintained against any of them in violation hereof.

(b) Complete Release. Each Party hereby warrants and represents that there are no additional entities or persons affiliated with such Party that are necessary to effectuate the release and extinguishment contemplated herein and this Agreement (including, without limitation, the Release and the Covenant Not to Sue set forth herein) constitutes a valid and binding obligation of such Party, enforceable against such Party in accordance with its terms, subject to laws of general application relating to bankruptcy, insolvency and the relief of debtors and rules of law governing specific performance, injunctive relief or other equitable remedies. Each Party hereby warrants and represents that such Party has not heretofore assigned, subrogated or transferred, or purported to assign, subrogate, or transfer to any Person whatsoever any Released Claim. Each Party hereby agrees to indemnify, defend, and hold harmless each Released Party from any such assignment, subrogation, or transfer of Released Claims.

(c) Knowledge and Investigation Of Release/Covenant Not to Sue. Each Party granting the Release and making the Covenant Not to Sue has made such investigation of the facts pertaining to the Release and the Covenant Not to Sue, and all of the matters pertaining thereto, as such Party deems necessary. In agreeing to the Release and the Covenant Not to Sue, each such Party assumes, on its own behalf and on behalf of each of its Related Entities, the risk of any mistake. Should any such Party subsequently discover that such Party’s understanding of the facts or of the law in agreeing to such Release and Covenant Not to Sue was incorrect, such Party (and its Related Entities) will not be entitled to any relief in connection therewith. Without limiting the generality of the foregoing, each Party surrenders any alleged right or Claim to set aside or rescind the Release or the Covenant Not to Sue on any ground whatsoever. Each of the

Release and the Covenant Not to Sue is intended to be and is final and binding upon each Party and its Related Entities.

(d) Newly Discovered Facts Or Claims. Each Party is aware that such Party may hereafter discover claims or facts in addition to or different from those such Party now knows or believes to be true with respect to the matters related herein. Nevertheless, it is each Party's intention to fully, finally, and forever waive, disclaim, settle and release all such matters covered by the Release or Covenant Not to Sue, and all Released Claims relative thereto, which now exist, heretofore have existed, or arise in the future between any Party or any Party's Related Entities, on the one hand, and any Released Party, on the other hand. In furtherance of such intention, the waivers, disclaimers and releases given herein will remain in effect as full and complete waivers, disclaimers and releases of all such matters notwithstanding the discovery or existence of any additional or different claims or facts related thereto.

(e) Full Knowledge; Independent Legal Advice. Each Party hereby warrants and represents that, in executing this Agreement, such Party does so with full knowledge of any and all rights that such Party may have with respect to the matters set forth herein and the Released Claims, and that such Party has received independent legal advice with respect to the matters set forth herein and the Released Claims and with respect to the rights and asserted rights arising out of such matters.

(f) Binding Effect. Each of the Release and the Covenant Not to Sue is binding upon each Party and all of its Related Entities and will inure to the benefit of each of the Released Parties.

7.4. Insurance.

To the extent commercially available, SCE shall procure and purchase, as an Administrative Expense using Program Funds, one or more insurance policies (each a "**Policy**") to cover any and all Claims pertaining to SCE's administration of the CFR Program, the Steering Committee's administration of the CFR Program and any administrative activities and, to the extent possible, Claims pertaining to the CFR Program itself and Claims against any Participating EDU arising from or in connection with the CFR Program. In addition to or in lieu of any such insurance policy, SCE may also procure and purchase, as an Administrative Expense using Program Funds, one or more performance bonds to cover its obligations under any Program Agreement (each, a "**Bond**"). SCE shall have the authority to select, purchase, maintain and replace, as the case may be, any such Policy or Bond and to make any and all decisions with respect thereto including, without limitation, the providers, nature, amounts, and other terms and conditions thereof; provided that if SCE is presented with more than one quotation for any such Policy or Bond from different providers prior to purchasing such a Policy or Bond, it shall present such quotations to the Steering Committee for review and approval in accordance with the provisions of Section 4.1(c). Notwithstanding the foregoing, in no event shall SCE or any other Released Party be liable or responsible to any Party or Person for any failure to obtain, approve or maintain any such Policy or Bond, and the lack of any such Policy or Bond shall in no event affect the right to indemnification of any Indemnified Person under the indemnification provisions contained herein, including the right to be reimbursed or advanced expenses or otherwise indemnified for Claims hereunder. If any Indemnified Person recovers any

amounts in respect of any Claim from any insurance coverage, then such Indemnified Person shall, to the extent that such recovery is duplicative of amounts with respect to such Claim received under the provisions of Section 7.5(c) below, reimburse the applicable Parties (on a pro rata basis) for any amounts previously paid to such Indemnified Person by such Parties in respect of such Claim.

7.5. Indemnification.

(a) Indemnified Claims.

(i) In the event that any Claims are made against or otherwise incurred or suffered by SCE or any other SCE Released Party (SCE and the other SCE Released Parties also being referred to herein collectively as, the "**SCE Indemnified Persons**", each an "**SCE Indemnified Person**") at any time that, directly or indirectly, arise out of, result from, relate to, or are otherwise connected with or involving SCE's role, capacity or status as Program Administrator, SCE's actions or inactions as Program Administrator or with respect to the administration, management or oversight of the CFR Program, the solicitation or RFP/RFI processes, or any Program Agreement (each, an "**SCE Indemnified Claim**"), each SCE Indemnified Person shall be entitled to reimbursement, advancement of expenses, defense, protection, and payment from Program Funds for any such SCE Indemnified Claim.

(ii) In the event that any Claims are made against or otherwise incurred or suffered by any Member, any Alternate or any other Steering Committee Released Party (the Members, Alternates and the other Steering Committee Released Parties also being referred to herein collectively as, the "**Steering Committee Indemnified Persons**", each a "**Steering Committee Indemnified Person**") at any time that, directly or indirectly, arise out of, result from, relate to, or are otherwise connected with or involving such Member's or Alternate's role, capacity or status as a Member or Alternate on the Steering Committee, or such Member's or Alternate's actions or inactions as a Member or Alternate on the Steering Committee, or with respect to the Steering Committee's administration, management or oversight of the CFR Program, the solicitation or RFP/RFI processes, or the Steering Committee's approval (or disapproval) of any Program Agreement (each, a "**Steering Committee Indemnified Claim**"), each Steering Committee Indemnified Person shall be entitled to reimbursement, advancement of expenses, defense, protection, and payment from Program Funds for any such Steering Committee Indemnified Claim.

(b) Payment of Indemnified Claims.

(i) As a first resort, payment for any Indemnified Claim will come from any Policy or Bond that may be then in effect and available to cover such Indemnified Claim.

(ii) To the extent that any Indemnified Claim, or any portion thereof, is not covered by any Policy or Bond that is then in effect and available, or to the extent the amounts available and obtained therefrom are insufficient to fully cover and satisfy the entire amount of such Indemnified Claim, then any and all Program Funds shall be used to pay and satisfy the Indemnified Claim and all amounts associated therewith in the following order of

priority (and, for the avoidance of doubt, no Percentage Target limitation that may otherwise be applicable as set forth in Section 5.2 shall apply), (A) if there is a Program Funds Account, (x) first, all amounts held in such Program Funds Account (other than the Reserve Amounts), and (y) second, the Reserve Amounts, and (B) if there is no Program Funds Account, (x) first, all amounts held in the Disbursement Account, (y) second, all amounts held in any and all Deposit Accounts (other than the Reserve Amounts), and (z) third, the Reserve Amounts.

(iii) In the event that existing Program Funds are insufficient to fully cover and satisfy the entire amount of any such Indemnified Claim, then each Party (including, for the avoidance of doubt, SCE in its capacity as a Participating EDU) shall, on a pro rata basis according to the respective Contribution Percentages (as defined in Section 1.1) of the Parties at such time, promptly deposit into its respective EDU Contribution Account such amounts of (A) additional LCFS Credit Revenue held by such Party in excess of its Required Percentage of LCFS Credit Revenue required to be contributed by such Party to Program Funds pursuant to Section 5.4 ("**Holdback Funds**"), and (B) revenue from the sale of any other credits issued by CARB pursuant to the LCFS Regulation ("**LCFS Non-Base Credit Revenue**"), up to an amount equal to the aggregate sum of all Holdback Funds and LCFS Non-Base Credit Revenue then held by such Party along with any and all future LCFS Credit Revenue received by such Party from the sale(s) of LCFS Base Credits (including all future Holdback Funds and not limited to such Party's Required Percentage of its LCFS Credit Revenue) and any and all future LCFS Non-Base Credit Revenue received by such Party from the sale(s) of such other LCFS credits issued by CARB, until each such Indemnified Claim and all amounts associated therewith have been paid and satisfied in full. In the event that the total amount of any Party's LCFS Non-Base Credit Revenue contributed with respect to any Indemnified Claim is insufficient to cover its respective Contribution Percentage of the amount of any such Indemnified Claim (each such Party, a "**Shortfall Party**"), each Party that is required to contribute aggregate Holdback Funds or LCFS Non-Base Credit Revenue pursuant to the preceding sentence or pursuant to the provisions of Section 7.5(c) below that is in excess of its respective Contribution Percentage of the amount of any such Indemnified Claim (each such Party, an "**Excess Party**"), shall be entitled to be reimbursed by each Shortfall Party, on a pro rata basis in proportion to its respective share of such excess contributions of Holdback Funds and LCFS Non-Base Credit Revenues made by all Excess Parties, and the Steering Committee (with oversight from CARB and, with respect to the IOUs only, the CPUC) shall determine the appropriate timing, manner and amounts of such reimbursements (including an appropriate interest factor to take into account the time value of money) required to be made by any Shortfall Party to any Excess Party, and each Party shall comply with the instructions of the Steering Committee with respect thereto.

(c) Shortfall Indemnity. Solely in the event that the amount of any Indemnified Claim has not been fully and finally satisfied pursuant to the provisions of Section 7.5(b), and the amounts available to pay such Indemnified Claim under Section 7.5(b) are insufficient or exhausted, all of the Parties (including, for the avoidance of doubt, SCE in its capacity as a Participating EDU), on a pro rata basis according to their respective Contribution Percentages, shall indemnify, defend, and hold each Indemnified Person harmless from and against any such Indemnified Claim that has been made, brought or asserted against any Indemnified Person by any other Person, except to the extent that such Indemnified Claim arises out of such Indemnified Person's gross negligence or reckless or willful misconduct, as determined by a final arbitration award or final judgment or judicial decree issued by an

arbitrator or court of competent jurisdiction. The Parties acknowledge and agree that the obligations of any POU to make such payments under this Section 7.5(c) constitute an expense of the POU payable from its electric revenue fund.

7.6. Maximum Liability.

(a) IN ADDITION TO, AND WITHOUT ANY LIMITATION (EXPRESS OR IMPLIED) ON THE FOREGOING PROVISIONS OF THIS ARTICLE 7, IN NO EVENT SHALL THE AGGREGATE LIABILITY OF SCE AND THE OTHER SCE RELEASED PARTIES WITH RESPECT TO ANY AND ALL CLAIMS DESCRIBED IN SECTION 7.1 OR SECTION 7.2 ABOVE, WHETHER ARISING OUT OF OR RELATED TO BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EXCEED FIVE THOUSAND DOLLARS (\$5,000.00) TO ANY PARTY AND ITS RELATED ENTITIES OR FIFTY THOUSAND DOLLARS (\$50,000) IN THE AGGREGATE TO ALL PARTIES (AND THEIR RESPECTIVE RELATED ENTITIES) FOR ANY AND ALL SUCH CLAIMS ARISING OUT OF OR RELATED TO THIS AGREEMENT. FOR THE AVOIDANCE OF DOUBT, THIS SECTION 7.6(a) DOES NOT APPLY TO ANY LIABILITY THAT SCE MAY HAVE UNDER SECTION 7.5(b) OR SECTION 7.5(c) IN ITS CAPACITY AS A PARTICIPATING EDU.

(b) IN ADDITION TO, AND WITHOUT ANY LIMITATION (EXPRESS OR IMPLIED) ON THE FOREGOING PROVISIONS OF THIS ARTICLE 7, IN NO EVENT SHALL THE AGGREGATE LIABILITY OF ANY MEMBER OR ANY ALTERNATE (OR THEIR RESPECTIVE RELATED STEERING COMMITTEE RELEASED PARTIES) WITH RESPECT TO ANY AND ALL CLAIMS DESCRIBED IN SECTION 7.1 OR SECTION 7.2 ABOVE WITH RESPECT TO SUCH STEERING COMMITTEE RELEASED PARTIES, WHETHER ARISING OUT OF OR RELATED TO BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EXCEED FIVE THOUSAND DOLLARS (\$5,000.00) TO ANY PARTY AND ITS RELATED ENTITIES OR FIFTY THOUSAND DOLLARS (\$50,000) IN THE AGGREGATE TO ALL PARTIES (AND THEIR RESPECTIVE RELATED ENTITIES) FOR ANY AND ALL SUCH CLAIMS ARISING OUT OF OR RELATED TO THIS AGREEMENT. FOR THE AVOIDANCE OF DOUBT, THIS SECTION 7.6(b) DOES NOT APPLY TO ANY LIABILITY THAT ANY STEERING COMMITTEE RELEASED PARTY MAY HAVE UNDER SECTION 7.5(b) OR SECTION 7.5(c) IN ITS CAPACITY AS A PARTICIPATING EDU.

7.7. Savings.

If this ARTICLE 7 or any portion hereof shall be invalidated on any ground by any arbitrator or court of competent jurisdiction, then the Parties shall nevertheless release and covenant not to sue each Released Party pursuant to Sections 7.1 through 7.3, and the Parties shall nevertheless indemnify, defend and hold harmless each Indemnified Person pursuant to Section 7.5(c), in each case to the fullest extent permitted by any applicable portion of this ARTICLE 7 that shall not have been invalidated and to the fullest extent permitted by applicable law.

7.8. New Program Administrator; Amendment.

(a) In the event that a new Program Administrator that is a Participating EDU is appointed to replace or succeed SCE following the date of expiration or termination of SCE's appointment as Program Administrator in accordance with the provisions of Section 3.1(b), then unless the Steering Committee otherwise determines and the Parties amend this Section 7.8(a) in connection with the replacement administrative and governance structure for the CFR Program that is implemented at such time in accordance with the provisions of 3.1(c), any such replacement or successor Program Administrator to SCE that is a Participating EDU shall receive and be entitled to the same rights and protections as are provided to SCE under this ARTICLE 7 and on the same terms and conditions as are applicable to SCE hereunder. For the avoidance of doubt, in the event that a Third Party Program Administrator replaces or succeeds SCE or any other Participating EDU as Program Administrator, any such Third Party Program Administrator shall not be entitled hereunder to any of the rights or protections that are provided to SCE (or to any other Released Party or Indemnified Person) under this ARTICLE 7.

(b) The provisions of this ARTICLE 7 shall be a contract among all of the Parties, on the one hand, and each Program Administrator (and the other Released Parties and Indemnified Persons with respect to such Program Administrator) who served in such capacity, in each case other any Third Party Program Administrator, at any time while this ARTICLE 7 is in effect, on the other hand, pursuant to which each of the Parties and each such Program Administrator, Released Party, and Indemnified Person intend to be legally bound. No amendment, modification, or repeal of this ARTICLE 7 that adversely affects the rights of any former, current or future Program Administrator (excluding any Third Party Program Administrator), Released Party or Indemnified Person to waiver, disclaimer, discharge, release, or the covenant not sue with respect to any or all Released Claims, or to indemnification and defense for and protection from any or all Indemnified Claims, incurred or relating to a state of facts existing, or to any Program Administrator's service, status or capacity as Program Administrator (excluding any Third Party Program Administrator), prior to such amendment, modification, or repeal shall apply in such a way as to eliminate or reduce such Program Administrator's (and the other Released Parties' and Indemnified Persons' with respect to such Program Administrator) entitlement to waiver, disclaimer, discharge, release, or the covenant not sue with respect to any or all such Released Claims, or to indemnification and defense for and protection from any or all such Indemnified Claims, or to any other rights or privileges under this ARTICLE 7, in each case without such Program Administrator's or former Program Administrator's (but excluding any Third Party Program Administrator) prior written consent.

7.9. Survival.

The provisions of this ARTICLE 7 shall survive and continue to apply and bind each Party (including each former, current and future Party) hereto in perpetuity notwithstanding any termination of this Agreement, any termination of the CFR Program, or any withdrawal of any Party from this Agreement or the CFR Program; provided, however, that the provisions of Section 7.5(c) shall terminate on the date (the "**Shortfall Indemnity Termination Date**") that is ninety (90) days after the latest to occur of (i) the fourth anniversary of the date of termination of this Agreement, (ii) the fourth anniversary of the date of termination of the CFR Program, and (iii) the expiration of the longest federal, state, local or foreign statute of limitations (including extensions thereof) applicable to any Indemnified Claim (or, if written notice of such

Indemnified Claim shall have been given prior to such date, indefinitely until such Indemnified Claim is finally resolved and paid in full).

ARTICLE 8

PROGRAM MATERIALS; PUBLIC ANNOUNCEMENTS

8.1. Ownership of Program Materials

The Parties hereby acknowledge and agree that, because the CFR Program is a CARB program created by the LCFS Regulation, any and all intellectual property rights (including any copyright, trademark, service mark, and patent rights) in and to any materials, webpages, software, databases, project data, documentation, reports, logos, works of authorship, other works, or other intellectual property materials developed, created, produced or invented in the performance of the CFR Program, by any Implementer, whether solely or jointly with any other Implementer or with any employees, contractors, or agents of any Party in connection with the CFR Program (collectively, "**Program Material**"), will be assigned to CARB; provided that in no event shall Program Material (or any assignment thereof) include, or be deemed to include, any Party's proprietary intellectual property or confidential information that may be incorporated into or included in any Program Material. All Program Agreements shall (a) contain or require the delivery of such an assignment by the Implementer to CARB of all intellectual property rights in any and all Program Material developed, created, produced or invented thereunder, and (b) require that the Implementer deliver to CARB or its designee all Program Material in its possession upon any termination of the applicable Program Agreement with such Implementer, and provide all reasonable and necessary assistance to CARB or its designee as needed to ensure a smooth transition to a new Implementer, in each case in a form approved by the Steering Committee. It is the Parties' intention that rebate access and redemption be seamless to ZEV purchasers and lessees during the term of the CFR Program.

8.2. Public Announcements

The Steering Committee or its designee(s) will approve the content and timing of any and all joint press releases or announcements regarding the CFR Program on behalf of all Participating EDUs, and all Participating EDUs shall be required to sign on to such joint press releases and announcements in the time and manner so approved by the Steering Committee or its designee. No Party may issue any other press release or announcement regarding this Agreement, any Program Agreement, the CFR Program, or any Program Material unless (i) such press release is issued jointly by the Participating EDUs in the form approved by the Steering Committee or its designee (including any subcommittee established for such purpose or the applicable Program Implementer) in accordance with the immediately preceding sentence, or (ii) before the release of the press release such Party furnishes the other Parties with a copy of such press release, and (A) obtains the prior written approval of the Steering Committee or such designee of such press release, or (B) the press release by such Party complies and is in strict accordance with the terms, conditions and substance of a pre-approved form of such press release that has already been approved by the Steering Committee or such designee for purposes of issuances of such press release(s) by any Party; provided that, notwithstanding any failure to obtain such approval, no Party is prohibited from issuing or making any press release or other announcement or notification if it is necessary to do so in order to comply with applicable laws,

legal or regulatory proceedings or the rules and regulations of any stock exchange having jurisdiction over such Party.

ARTICLE 9 PROGRAM TERM; TERMINATION; WITHDRAWAL

9.1. Term

(a) Term. This Agreement will be effective as of the Effective Date and will remain in effect until the earlier to occur of (i) CARB's termination of the CARB-authorized and endorsed CFR Program, or (ii) the unanimous approval of the termination of this Agreement by all Members of the Steering Committee.

(b) Effect of Termination. Notwithstanding any expiration or termination of this Agreement, the provisions of ARTICLE 1, Section 4.3, ARTICLE 7, ARTICLE 8, this ARTICLE 9, and ARTICLE 10 shall survive any such expiration or termination and shall remain in full force and effect and each Party and each former Party shall continue to be obligated and bound thereafter by the provisions thereof. Any Program Funds shall remain in the respective Accounts in which they are held at the time of such termination and shall be used thereafter in order to pay for any Administrative Expenses, Reward Amount payment reimbursements, Indemnified Claims, or other expenses and liabilities (contingent or otherwise) of the CFR Program or with respect to its administration that exist as of or arise following the date of termination (collectively, "**Remaining Liabilities**"). After the payment and satisfaction of all Remaining Liabilities, and in no event before the occurrence of the Shortfall Indemnity Termination Date, but in all events subject to the requirements of the LCFS Regulation, any remaining Program Funds shall be distributed in the following manner and order of priority:

(i) To the extent that any payments have been made pursuant to the provisions of Section 7.5(c) at any time prior to the Shortfall Indemnity Termination Date ("**Shortfall Payments**"), any remaining Program Funds shall first be distributed to the Parties that made such Shortfall Payments on a *pro rata* basis in proportion to each such Party's respective percentage of the aggregate total amount of all Shortfall Payments made by all of the Parties, in each case until each such Party has received the total amount of such Party's Shortfall Payments returned to it in full (without interest);

(ii) After satisfaction in full of any amounts payable under Section 9.1(b)(i) above, to the extent that any payments have been made pursuant to the provisions of Section 7.5(b)(iii) at any time prior to the Shortfall Indemnity Termination Date ("**Additional LCFS Revenue Payments**"), any remaining Program Funds shall next be distributed to the Parties that made such Additional LCFS Revenue Payments on a *pro rata* basis in proportion to each such Party's respective percentage of the aggregate total amount of all Additional LCFS Revenue Payments made by all of the Parties, in each case until each such Party has received the total amount of such Party's Additional LCFS Revenue Payments returned to it in full (without interest); and

(iii) After satisfaction in full of any amounts payable under Section 9.1(b)(i) and 9.1(b)(ii) above, all remaining Program Funds shall be distributed in the manner

required by the LCFS Regulation or, if no such manner is specified, to the Parties on a *pro rata* basis in proportion to each such Party's respective percentage of the aggregate total amount of all EDU Contributions made by all Parties during the term of the CFR Program.

(c) LADWP Term. Notwithstanding the provisions of Section 9.1(a) above, the term of LADWP's participation as a Participating EDU under this Agreement shall commence on the Effective Date and terminate on the earlier to occur of (x) the fifth anniversary of the Effective Date unless, not less than ninety (90) days prior to such fifth anniversary, LADWP delivers written notice to the Program Administrator and the Steering Committee that LADWP elects not to terminate its participation as a Participating EDU under this Agreement on the date of such fifth anniversary, or (y) the date on which LADWP withdraws as a Party pursuant to the provisions of Section 9.2 below or is removed as a Party pursuant to the provisions of Section 9.3 below.

9.2. Withdrawal by a Party

(a) Withdrawal by a Party. Any Party may cancel its participation in this Agreement and withdraw as a Party hereunder with or without cause, upon (i) such Party's compliance with any procedures and requirements set forth in the LCFS Regulation governing such Party's withdrawal from the CFR Program and this Agreement, and such Party's delivery of advanced written notice to CARB, the Program Administrator and the Members of such Party's intent to withdraw as a Party (a "**Withdrawal Notice**"), which advance written notice must be delivered within the timeframe set forth in the LCFS Regulation or, if none is provided, not less than ninety (90) calendar days prior to the Party's intended date of withdrawal; and (ii) such Party's satisfaction of the following conditions to such withdrawal:

(A) Within ten (10) days of the date of its Withdrawal Notice, such Party must deposit into its EDU Contribution Account the Required Percentage of any LCFS Credit Revenue held by such Party;

(B) Within the timeframe required for such Party to sell its Earmarked Credits and contribute the Required Percentage of the LCFS Credit Revenue generated therefrom into its EDU Contribution Account pursuant to the provisions of Section 5.4, or such shorter timeframe as may be required by the LCFS Regulation, such Party must sell any remaining Earmarked Credits received or held by such Party and deposit into its EDU Contribution Account the Required Percentage of any LCFS Credit Revenue received by such Party from such sale(s) of LCFS Base Credits; and

(C) Immediately following the date of its Withdrawal Notice or, if later, the date on which the Program Administrator delivers to such Party a notice of an Indemnified Claim under Sections 7.5(b)(iii) or 7.5(c), such Party shall deposit into its EDU Contribution Account the additional amount of LCFS Credit Revenue demanded from such Party in any outstanding notice of Indemnified Claim delivered to such Party by the Program Administrator.

(b) Effect of Withdrawal. Following any withdrawal or attempted withdrawal by any Party from this Agreement, the provisions of ARTICLE 1, Section 4.3, ARTICLE 7,

ARTICLE 8, this ARTICLE 9, and ARTICLE 10 shall survive, remain in full force and effect, and continue to apply to such Party, and such Party shall continue to be obligated and bound by the provisions thereof at all times thereafter. Following a Party's delivery of a Withdrawal Notice, such Party shall promptly complete and satisfy in full any procedures, requirements or other conditions for such Party's withdrawal from the CFR Program or this Agreement as are set forth in the LCFS Regulation. In addition, following any Party's delivery of a Withdrawal Notice, the Program Administrator may thereafter instruct the Financial Institution to transfer any and all amounts held in such Party's Individual Deposit Account at such time or at any time thereafter into the Disbursement Account (or any Collective Deposit Account) on a priority basis at any time, and from time to time, thereafter, notwithstanding such Party's respective pro rata share of any outstanding Reward Amount payment reimbursements or Administrative Expenses. Notwithstanding the foregoing provisions of this Section 9.2(b), following the second anniversary of the date of a Party's valid withdrawal as a Party to this Agreement in accordance with the requirements set forth in this Section 9.2, and subject to such former Party's continued compliance with its obligations hereunder following such withdrawal, such former Party's obligations under Sections 7.5(b)(iii), 7.5(c) or 9.2(a)(C) shall no longer apply with respect to any Indemnified Claim that arises solely from activities, omissions, events or circumstances occurring following such second anniversary.

9.3. Removal of a Party

(a) Post-Breach Removal. Any Party may be removed as a Party under this Agreement if, following notice by the Program Administrator, upon the agreement and concurrence of the Steering Committee, of such Party's material breach of such Party's obligations under this Agreement (including any failure by such Party to make any of its Required EDU Contributions in strict accordance with the requirements of this Agreement), such Party does not cure such breach to the satisfaction of the Steering Committee within thirty (30) days of the date of such notice of breach and the Steering Committee thereafter votes to remove such Party as a Party under this Agreement ("**Removal Vote**"). Following the occurrence of a Removal Vote with respect to a Party, such Party shall immediately be removed as a Party from this Agreement, and shall further be required to act as follows (provided that such action is consistent with the LCFS Regulation as in effect at such time):

(i) Within three (3) days of the date of the Removal Vote, such Party must deposit into its EDU Contribution Account all LCFS Credit Revenue held by such Party; and

(ii) Within ten (10) days of the date of the Removal Vote, such Party must sell any remaining LCFS Base Credits received or held by such Party and deposit into its EDU Contribution Account all of the LCFS Credit Revenue received by such Party from such sale(s) of LCFS Base Credits.

(b) Effect of Removal. Following any Removal Vote with respect to any Party, the provisions of ARTICLE 1, Section 4.3, ARTICLE 7, ARTICLE 8, this ARTICLE 9, and ARTICLE 10 shall survive, remain in full force and effect, and continue to apply to such Party, and such Party shall continue to be obligated and bound by the provisions thereof at all times thereafter. Following the Removal Vote, such Party shall forfeit any and all rights to

receive any LCFS Base Credits and shall no longer receive any LCFS Base Credits from CARB, and such Party's forfeited LCFS Base Credits it would have otherwise received thereafter had it not been removed as a Party shall be allocated to the other remaining Participating EDUs pro rata, in each case in accordance with the provisions of the LCFS Regulation. In addition, following the Party's removal, the Program Administrator may thereafter instruct the Financial Institution to transfer any and all amounts held in such Party's Individual Deposit Account at such time or at any time thereafter into the Disbursement Account (or any Collective Deposit Account) on a priority basis at any time, and from time to time, thereafter, notwithstanding such Party's respective pro rata share of any outstanding Reward Amount payment reimbursements or Administrative Expenses.

ARTICLE 10 MISCELLANEOUS

10.1. Governing Law; Waiver of Jury Trial.

(a) The construction, validity, performance, and effect of this Agreement for all purposes will be governed by the laws of the State of California, without giving effect to otherwise applicable principles of conflicts of law that would give effect to the laws of another jurisdiction.

(b) EACH PARTY (OTHER THAN A PARTY LISTED ON SCHEDULE 10.9(d)) HERETO HEREBY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT TO ANY PROCEEDING DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS AGREEMENT OR ANY MATTERS RELATED TO THIS AGREEMENT. EACH PARTY HERETO (A) CERTIFIES THAT NO REPRESENTATIVE OF ANY OTHER PARTY HERETO HAS REPRESENTED, EXPRESSLY OR OTHERWISE, THAT SUCH OTHER PARTY WOULD NOT, IN THE EVENT OF ANY PROCEEDING, SEEK TO ENFORCE THE FOREGOING WAIVER AND (B) ACKNOWLEDGES THAT IT AND THE OTHER PARTIES HERETO HAVE BEEN INDUCED TO ENTER INTO THIS AGREEMENT BY, AMONG OTHER THINGS, THE MUTUAL WAIVERS AND CERTIFICATIONS IN THIS SECTION 10.1(b).

10.2. Use of Name or Endorsements.

No Party will use the name or intellectual property of any other Party on or with regard to any product or service, which is directly or indirectly related to this Agreement, without the prior written approval of the affected Party or Parties. By entering into this Agreement no Party directly or indirectly endorses any product or service, of or by any Party, its successors or assignees.

10.3. Damages Limitation.

EXCEPT FOR AMOUNTS PAYABLE UNDER SECTION 7.5(c), IN NO EVENT SHALL ANY PARTY OR ANY OF ITS REPRESENTATIVES BE LIABLE UNDER THIS AGREEMENT TO ANY OTHER PARTY OR ANY THIRD PARTY FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, EXEMPLARY, SPECIAL OR PUNITIVE

DAMAGES, INCLUDING ANY DAMAGES FOR BUSINESS INTERRUPTION, LOSS OF USE, REVENUE OR PROFIT, WHETHER ARISING OUT OF BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, REGARDLESS OF (A) WHETHER SUCH DAMAGES WERE FORESEEABLE, (B) WHETHER OR NOT THE LIABLE PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND (C) THE LEGAL OR EQUITABLE THEORY (CONTRACT, TORT OR OTHERWISE) UPON WHICH THE CLAIM IS BASED.

10.4. Survival.

Notwithstanding the expiration or termination of this Agreement, the Parties will continue to be bound by the provisions of this Agreement which, by their nature, will survive such expiration or termination as set forth in Section 9.1(b).

10.5. Headings.

Titles and headings of the Sections and Subsections of this Agreement are for the convenience of reference only and do not form a part of this Agreement and will in no way affect the interpretation thereof.

10.6. Severability.

In the event any one or more of the provisions of the Agreement shall for any reason be held or determined by any Governmental Authority (or any arbitrator appointed pursuant to Section 10.9(c)) to be invalid, illegal or unenforceable under any law, statute, regulation, order or decision of any Governmental Authority, the remaining provisions of this Agreement shall be unimpaired, and the invalid, illegal or unenforceable provision shall be replaced by a provision, which, being valid, legal and enforceable, comes closest to the intention of the Parties underlying the invalid, illegal or unenforceable provision.

10.7. Amendments.

Neither this Agreement nor any term hereof may be amended, waived, discharged or terminated other than (a) with the prior written approval of (i) the Steering Committee, (ii) CARB, and (iii) to the extent required under applicable law or resolution, the CPUC, and (b) following receipt of the foregoing required approvals, by means of a written instrument referencing this Agreement and signed by (i) the Program Administrator and (ii) Parties with Members on the Steering Committee holding a majority of the aggregate voting percentages held by all Members; provided, however, that if any amendment, waiver, discharge or termination operates in a manner that treats any Party materially different from the other Parties, the consent of such Party shall also be required for such amendment, waiver, discharge or termination. Any such amendment, waiver, discharge or termination effected in accordance with this Section shall be binding upon each Party that has entered into this Agreement; provided, however, that any such amendment, waiver, discharge or termination of the terms of (A) ARTICLE 7, 8 or 9 or Sections 10.1, 10.3, 10.4, 10.7 or 10.9 that adversely affects the rights or obligations of any Participating EDU thereunder will not be binding on such Participating EDU without its consent thereto unless such amendment, waiver, discharge or termination (x) has been approved by the Steering Committee by the vote of Members (or of their respective Alternates or designated

proxies therefor) holding an aggregate voting percentage of at least eighty percent (80%) of the aggregate voting percentage held by all Members, or (y) has been approved by the Steering Committee pursuant to the regular voting requirements set forth in Sections 3.3(i) and 3.3(j) in response to an order or request made by a Governmental Authority or in order to comply with a legal requirement, or (B) the provision of Section 4.1(c) setting forth the voting requirement for approval of each Program Implementer and the Program Auditor must be approved by the same approval vote of the Steering Committee set forth in such provision.

10.8. Assignment.

Neither this Agreement nor any rights or obligations of any Party will be assigned or otherwise transferred by any Party without the prior written consent of the Steering Committee, except that assignment will be permitted in the event of merger, acquisition or change in control of any Party.

10.9. Dispute Resolution.

Any dispute arising under or related to this Agreement shall be resolved exclusively as follows, with the costs of any mediation and arbitration to be shared equally by all Parties to such dispute:

(a) Initial Resolution by Meeting. The Parties shall first attempt to resolve amicably the dispute by meeting with each other, by telephone or in person at a mutually convenient time and location, within thirty (30) days after written notice of a dispute is delivered from one Party to any other Party. Subsequent meetings may be held upon mutual agreement of the Parties to the dispute.

(b) Mediation. If the dispute is not resolved within sixty (60) days of the first meeting, the Parties to the dispute shall submit the dispute to mediation by an organization or company specializing in providing neutral, third-party mediators. The mediation shall be conducted within sixty (60) days of the date the dispute is submitted to mediation, unless the Parties to the dispute mutually agree on a later date.

(c) Arbitration. Any dispute that is not otherwise resolved by meeting or mediation shall, subject to the provisions of Section 10.9(d) below, be exclusively resolved by arbitration between the Parties to the dispute in accordance with the Comprehensive Arbitration Rules & Procedures of JAMS, with the arbitration to be conducted in Los Angeles, California, or another location mutually agreed by the Parties to the dispute. The results of such arbitration shall be binding on the Parties, and judgment may be entered in any court having jurisdiction. Notwithstanding the foregoing, any Party may seek interim injunctive relief from any court of competent jurisdiction.

(d) Venue in Limited Circumstances. Solely in the event that LADWP, SMUD, or any other POU that is added to Schedule 10.9(d) after the Effective Date by approval of the Steering Committee after having documented to the satisfaction of the Steering Committee concurrently with executing and delivering such POU's Joinder hereto that such POU is prohibited by (i) applicable law or (ii) written city or municipal policy that is binding on such POU and that has been in effect since before the Effective Date, from agreeing to participate in

binding arbitration, is a necessary and non-severable party to the applicable dispute, then solely in such event shall such dispute not be resolved pursuant to binding arbitration as set forth in Section 10.9(c) above, but rather shall be submitted to the exclusive jurisdiction of the federal and state courts located in Los Angeles, California. Each Party hereby waives, and agrees not to assert in any such dispute, controversy or proceeding, in each case to the fullest extent permitted by applicable law, any claim that (a) such Party is not personally subject to the jurisdiction of such courts, (b) such Party and such Party's property is immune from any legal process issued by such courts or (c) any Proceeding commenced in such courts is brought in an inconvenient forum.

10.10. No Third Party Beneficiaries.

This Agreement will be binding upon and inure solely to the benefit of each Party hereto and their permitted successors and assigns, and, except as expressly set forth in ARTICLE 7, nothing in this Agreement, express or implied, is intended to or will confer upon any other Person that is not a Party to this Agreement (or a permitted successor or assign thereof) any right, benefit or remedy of any nature whatsoever under or by reason of this Agreement.

10.11. Independent Parties.

For the purposes of this Agreement, the Parties are jointly funding the development of the CFR Program. The relationship of the Parties is that of independent parties and not as agents of each other or as joint venturers or partners. Nothing contained in this Agreement shall ever be construed to create an association, joint venture, trust or partnership, or impose a trust or partnership duty, obligation or liability on or with regard to any one or more of the Parties. Each Party shall be individually responsible for its own duties and obligations under this Agreement, and shall maintain sole and exclusive control over its respective personnel and operations. No Party or group of Parties shall be under the control of or shall be deemed to control any other Party or the Parties as a group. Except as expressly provided in this Agreement, no Party shall have a right or power to bind any other Party without its or their express written consent.

10.12. Counterparts.

This Agreement may be executed in any number of identical counterparts, each of which shall be deemed to be an original, and all of which together shall be deemed to be one and the same instrument when each Party has signed one such counterpart.

10.13. Full Performance Required.

Performance of any duty imposed on a Party by this Agreement is conditioned on each other Parties' full performance of all duties imposed on this Agreement.

10.14. Notices.

All notices, requests, consents, claims, demands, waivers, and other communications to a Party under this Agreement, or to any Member or Alternate of such Party on the Steering Committee, shall be in writing and shall be deemed to have been given: (a) when delivered by hand (with written confirmation of receipt); (b) when received by the addressee if sent by a

nationally recognized overnight courier (receipt requested); (c) on the date sent by facsimile or email of a PDF document (with confirmation of transmission) if sent during normal business hours of the recipient, and on the next business day if sent after normal business hours of the recipient; or (d) on the third day after the date mailed, by certified or registered mail, return receipt requested, postage prepaid. Such communications must be sent to the Party addressed to the individual(s) and at the address(es) for such Party specified on Schedule 10.14 hereto (or to such replacement individual(s) at such other address(es) for a Party as shall be specified in a notice given in accordance with this Section 10.14). The Steering Committee shall have the power and authority to amend Schedule 10.14 hereto to incorporate any such modifications made by a Party to its contact information in accordance with the provisions hereof and to add the contact information for each new Party to this Agreement following the Effective Date, but in the absence of the inclusion of a Party's contact information on Schedule 10.14 hereto, then the contact information for such Party shall be the contact information for such Party set forth on its Joinder delivered when it became a Party to this Agreement.

10.15. Construction.

This Agreement has been negotiated by the Parties, and their respective legal counsel, and legal or equitable principles that might require the construction of this Agreement or any provision hereof against the party drafting this Agreement will not apply in any construction or interpretation of this Agreement. The provisions of this Agreement will be interpreted in a reasonable manner to effect the intentions of the Parties and beneficiaries hereto and of this Agreement.

10.16. Time of Essence.

With regard to all dates and time periods set forth or referred to in this Agreement, time is of the essence.

10.17. Specific Performance.

Each of the Parties acknowledges and agrees that the other Parties would be damaged irreparably in the event any of the provisions of this Agreement are not performed in accordance with their specific terms or otherwise are breached or violated. Accordingly, each of the Parties agrees that, without posting bond or other undertaking, the other Parties will be entitled to an injunction or injunctions to prevent breaches or violations of the provisions of this Agreement and to enforce specifically this Agreement and the terms and provisions hereof in any claim, action, cause of action or suit (whether in contract or tort or otherwise), litigation (whether at law or in equity, whether civil or criminal), controversy, assessment, arbitration, investigation, hearing, charge, complaint, demand, notice or proceeding to, from, by or before any Governmental Authority having jurisdiction over the Parties and the matter in addition to any other remedy to which it may be entitled, at law or in equity. Each Party hereto further agrees that, in the event of any action for specific performance in respect of such breach or violation, it will not assert the defense that a remedy at law would be adequate or that the consideration reflected in this Agreement was inadequate or that the terms of this Agreement were not just and reasonable.

10.18. Legal Matters.

SCE has retained its own outside legal counsel, Munger, Tolles & Olson LLP, in connection with the CFR Program, SCE's intention to serve as the initial Program Administrator, and the drafting and negotiation of this Agreement, and SCE expects to retain additional legal counsel following approval thereof by the Steering Committee (collectively, including Munger, Tolles & Olson LLP, the "**Law Firms**") following the execution of this Agreement in connection with SCE's role as Program Administrator in administering, managing and overseeing the CFR Program. The Law Firms do not, have not and will not represent any Party other than SCE solely in its role as Program Administrator in connection with (i) the CFR Program or the formation thereof, (ii) the drafting and negotiation of this Agreement or any Program Agreement, (iii) the solicitation process or the operation, administration, management or oversight of the CFR Program, or (iv) any dispute which may arise between any Party or Person other than SCE, on the one hand, and the CFR Program, the Program Administrator, SCE or any other SCE Indemnified Person or SCE's Steering Committee Indemnified Persons in connection with the CFR Program, on the other hand (each matter described in any of the foregoing clauses (i) through (iv), a "**Program Legal Matter**"). Each Party may, if it wishes to have counsel on a Program Legal Matter, retain its own independent counsel at its own expense with respect thereto. Each Party agrees that the Law Firms may represent one or more SCE Indemnified Persons, and/or one or more of SCE's Steering Committee Indemnified Persons, in connection with any and all Program Legal Matters (including any dispute between the CFR Program, the Program Administrator, SCE or any other SCE Indemnified Person or SCE's Steering Committee Indemnified Persons, on the one hand, and any Party (other than SCE), any other Steering Committee Indemnified Person or any other Person, on the other hand) and hereby waives any present or future conflict of interest with the Law Firms regarding Program Legal Matters arising by virtue of any representation or deemed representation of any Party or the CFR Program on account of the Law Firms' representation of one or more SCE Indemnified Persons or SCE Steering Committee Indemnified Persons in connection with any Program Legal Matter; provided that each Law Firm shall be responsible for abiding by the Rules of Professional Conduct applicable to it and its attorneys in connection with any such representation including their duty to keep any client information received from any Party confidential and not disclose it to others and to ensure that appropriate ethical walls or other safeguards that are necessary for them to abide by such Rules of Professional Conduct are implemented. Amounts paid or payable by SCE to the Law Firms in connection with Program Legal Matters that arise or have arisen during or prior to SCE's service as Program Administrator, or that arise following SCE's service as Program Administrator involving or otherwise relating to events or circumstances that occurred, in whole or in part, during SCE's service as Program Administrator and that involve or otherwise relate to SCE's role as Program Administrator, shall be reimbursed to SCE as Administrative Expenses.

10.19. Entire Agreement.

This Agreement constitutes the entire agreement between the Parties concerning the subject matter hereof and supersedes any prior understanding or written or oral agreement relative to said matter. This Agreement and other related documents may be photocopied, scanned and stored on computer storage media (the "**Imaged Agreement**"). The Imaged Agreement, if introduced as evidence, and all computer records of the foregoing, if introduced as evidence, and all computer records of the foregoing, if introduced as evidence in any format, in

any judicial, arbitration, mediation or administrative proceedings, will be admissible as between the Parties to the same extent and under the same conditions as other business records originated and maintained in documentary form. No Party shall object to the admissibility of the Imaged Agreement (in electronic, printed, or photocopied format) on the basis that the Agreement or other related documents were not originated or maintained in documentary or written form under either the hearsay rule or the best evidence rule. However, nothing in this Section shall preclude a Party from challenging the admissibility of that evidence on some other ground, without limitation, the basis that the evidence has been materially or substantially altered from the original.

10.20. Representations by the Parties.

Each Party hereby represents and warrants to the Program Administrator and to each other Party that (a) it has the power and authority, and the legal right, to make, deliver and perform this Agreement and it has taken all necessary action to authorize the execution, delivery and performance of this Agreement, (b) other than the approvals of the CPUC set forth in the definition of Final CPUC Approval Date in Section 1.1(gg), which approvals have been requested but not yet received, no consent or authorization of, filing with, notice to or other act by or in respect of, any Governmental Authority or any other Person that has not been obtained, made or completed is required in connection with the execution, delivery and performance, validity or enforceability of this Agreement, (c) this Agreement has been duly and validly executed and delivered on behalf of such Party, (d) the execution, delivery and performance of this Agreement by such Party will not violate, conflict with, require consent under or result in any breach or default under (i) any of such Party's organizational, governing or charter documents, (ii) any applicable law, or (iii) with or without notice or lapse of time or both, the provisions of any material contract or agreement to which such Party is a party or to which any of its material assets are bound, and (e) this Agreement constitutes a legal, valid and binding obligation of such Party enforceable against it in accordance with its terms, subject to the effects of bankruptcy, insolvency, fraudulent conveyance, reorganization, moratorium and other similar laws relating to or affecting creditors' rights generally, general equitable principles (whether considered in a proceeding in equity or at law) and an implied covenant of good faith and fair dealing.

[THIS SPACE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, this Agreement has been duly executed on behalf of the Parties by their respective authorized officers (or respective designee) as of the year and dates first written above.

Pacific Gas and Electric Company

By: Laurie Giannone

Name: Laurie Giannone

Title: Senior Vice President
Chief Customer Officer

Address for Notice:
77 Beale Street
San Francisco, CA 94105

Approved as to Legal Form and Content (optional)

By: _____

Name: _____

Title: _____

Los Angeles Department of Water & Power

By: _____

Name: _____

Title: _____

Address for Notice:

Approved as to Legal Form and Content (optional)

By: _____

Name: _____

Title: _____

Southern California Edison Company

By: _____

Name: _____

Title: _____

Address for Notice:

Approved as to Legal Form and Content (optional)

By: _____

Name: _____

Title: _____

IN WITNESS WHEREOF, this Agreement has been duly executed on behalf of the Parties by their respective authorized officers (or respective designee) as of the year and dates first written above.

Pacific Gas and Electric Company

By: _____

Name: _____

Title: _____

Address for Notice: _____

Approved as to Legal Form and Content (optional)

By: _____

Name: _____

Title: _____

Los Angeles Department of Water & Power

By: Martin L. Adams

Name: MARTIN L. ADAMS

Title: GENERAL MANAGER AND

Address for Notice: CHIEF ENGINEER

Approved as to Legal Form and Content (optional)

By: _____ APPROVED AS TO FORM AND LEGALITY

Name: _____ MICHAEL N. FEUER, CITY ATTORNEY

Title: _____

FEB 13 2020
BY Jean-Claude Bertet
JEAN-CLAUDE BERTET
DEPUTY CITY ATTORNEY

Southern California Edison Company

By: _____

Name: _____

Title: _____

Address for Notice: _____

Approved as to Legal Form and Content (optional)

By: _____

Name: _____

Title: _____

AUTHORIZED BY RES. 020 127

JAN 28 2020

IN WITNESS WHEREOF, this Agreement has been duly executed on behalf of the Parties by their respective authorized officers (or respective designee) as of the year and dates first written above.

Pacific Gas and Electric Company

By: _____
Name: _____
Title: _____
Address for Notice: _____

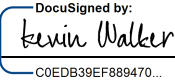
Approved as to Legal Form and Content (optional)
By: _____
Name: _____
Title: _____

Los Angeles Department of Water & Power

By: _____
Name: _____
Title: _____
Address for Notice: _____

Approved as to Legal Form and Content (optional)
By: _____
Name: _____
Title: _____

Southern California Edison Company

By:  _____
Name: Kevin E. Walker _____
Title: Senior Vice President _____
Address for Notice: _____

Approved as to Legal Form and Content (optional)
By: _____
Name: _____
Title: _____

San Diego Gas & Electric Company

By: _____

Name: Estela de Llanos

Title: Vice Pres. Cn Trans, S&G

Address for Notice: Cn Env Oper

8330 Century Park Court
San Diego, CA 92123

Sacramento Municipal Utility District

By: _____

Name: _____

Title: _____

Address for Notice: _____

Approved as to Legal Form and Content (optional)

By: Abby Snyder

Name: ABBY SMYDER

Title: ATTORNEY

Approved as to Legal Form and Content (optional)

By: _____

Name: _____

Title: _____

San Diego Gas & Electric Company

By: _____

Name: _____

Title: _____

Address for Notice:

Sacramento Municipal Utility District

By: _____

Name: Arlen Orchard

Title: CEO / General Manager

Address for Notice:

6201 S Street Mail Stop B308
Sacramento, CA 95817

Approved as to Legal Form and Content (optional)

By: _____

Name: _____

Title: _____

Approved as to Legal Form and Content (optional)

By: _____

Name: _____

Title: _____

gm
LEGAL

SCHEDULE 1.1

NORTHERN EDUS AND SOUTHERN EDUS

Northern EDUs

**Alameda Municipal Power
City of Healdsburg
Lodi Electric Utility
City of Palo Alto
City of Roseville Electric Utility
Silicon Valley Power
Truckee Donner Public Utilities District
Turlock Irrigation District
City of Ukiah**

Southern EDUs

**Anaheim Public Utilities
Azusa Light and Water
Burbank Water and Power
Colton Electric Utility
Glendale Water and Power
Pasadena Water and Power
Riverside Public Utilities**

SCHEDULE 3.4(a)

ANTICIPATED ADVISORY COMMITTEE MEMBERSHIP

Set forth below is a list of all of the individual stakeholders and/or stakeholder groups that the Parties anticipate will be invited to participate on the Advisory Committee. This list is not intended to be comprehensive and additional organizations may be invited by any Participating EDU and are free to attend. Information regarding how to participate on and join the Advisory Committee will be provided on the Program Implementer's website for the CFR Program.

<u>EDUs</u> PG&E, SCE, SDG&E, LADWP, SMUD, Silicon Valley Power, Glendale, Palo Alto, Anaheim Public Utilities, Pasadena, Burbank, Alameda, Riverside, Roseville, Turlock, Azusa, Healdsburg, Colton, Lodi, Truckee Donner, Ukiah Note: EDU representatives on the Advisory Committee are anticipated to be different individuals from the EDU representatives then serving on the Steering Committee as Members.	<u>ZEV Manufacturers</u> Tesla, Honda, BMW, Nissan, Toyota, Volvo, Hyundai, Jaguar, MINI Mercedes, Volkswagen, Honda, General Motors, Ford <u>Community Organizations</u> Plug-in America, Greenlining Institute <u>Industry Groups</u> Dealerships/Dealership Associations Charging Station Providers (ChargePoint, Greenlots, EVGo, Electrify America, EVConnect), CALSTART, CALETC, CMUA, NCPA, SCPPA <u>Environmental NGOs</u> National Resources Defense Council, Environmental Defense Fund, Union of Concerned Scientists, Sierra Club
<u>California State Agencies</u> Air Resources Board, Public Utilities Commission - Energy Division, Governor's Office <u>Public Advocacy Organizations</u> Public Advocates Office, The Utility Reform Network	

SCHEDULE 10.9(d)

**POUs WHOSE DISPUTES SHALL BE RESOLVED PURSUANT TO
SECTION 10.9(d) RATHER THAN SECTION 10.9(c)**

LADWP
SMUD

SCHEDULE 10.14

PARTY NOTICE INFORMATION

(INCLUDING, IF APPLICABLE, SUCH PARTY'S STEERING COMMITTEE MEMBER)

PG&E:

Pacific Gas & Electric Company
77 Beale Street – B9F
San Francisco, CA 94105
Attn: Suncheth Bhat, Director, Clean Energy Transportation
Email: Suncheth.bhat@pge.com

And to:

Pacific Gas & Electric Company
77 Beale Street – B9F
San Francisco, CA 94105
Attn: Chris Warner, Chief Counsel
Email: Chris.Warner@pge.com

PG&E Steering Committee Member: Suncheth Bhat

SCE:

Southern California Edison
1515 Walnut Grove Avenue, 4th Floor
Rosemead, CA 91770
Attn: Katie Sloan, Director, eMobility
Email: katie.sloan@sce.com

And to:

Southern California Edison
2244 Walnut Grove Avenue
Rosemead, CA 91770
Attn: Rebecca A. Meiers-De Pastino, Senior Attorney
Email: Rebecca.Meiers.DePastino@SCE.com

SCE Steering Committee Member: Katie Sloan

PA Representative: Carter Prescott
Contact Information:
Southern California Edison
eMobility – Customer Programs & Services
1515 Walnut Grove Ave, GO5 4th Floor, 4D4-01
Rosemead, CA 91770

Attn: Carter Prescott, Principal Manager, Operations
E-mail: Carter.Prescott@sce.com

SDG&E:

San Diego Gas & Electric
8335 Century Park Court
San Diego, CA 92111
Attn: Brittany Applestein Syz, Director - Clean Transportation
Email: bsyz@semprautilities.com

And to:

San Diego Gas & Electric
8335 Century Park Court
San Diego, CA 92111
Attn: Abby Snyder, Senior Counsel - Commercial
Email: ASnyder@sdge.com

SDG&E Steering Committee Member: Brittany Applestein Syz

LADWP:

Los Angeles Department of Water & Power
111 N. Hope Street, Room 804
Los Angeles, CA 90012
Attn: Scott Briasco, P.E.
Email: scott.briasco@ladwp.com

With a copy to:

Jean-Claude Bertet, Deputy City Attorney
Office of the Los Angeles City Attorney, Water & Power Division
221 N Figueroa Street, Suite 1000
Los Angeles, CA 90012
E-mail: Jean-Claude.Bertet@ladwp.com

LADWP Steering Committee Member: Scott Briasco

SMUD:

Sacramento Municipal Utility District
6201 S Street Mail Stop B305
Sacramento, CA 95817
Attn: Rachel Huang, Director, Energy Strategy Research and Development

Email: Rachel.Huang@smud.org

With a copy to:

Sacramento Municipal Utility District
Office of General Counsel
6201 S Street, Mail Stop B406
Sacramento, CA 95817

SMUD Steering Committee Member: Rachel Huang

APPENDIX A

CFR PROGRAM EDU CONTRIBUTION REQUIREMENTS

Electric Distribution Utility ("EDU")	CVRP % All EDUs	Initial EDU Contribution	EDU Category	Required Percentage Contribution in years 2019-2022	Required Percentage Contribution in 2023 and thereafter
Pacific Gas & Electric Company	39.78%	\$19,892,022	Investor-owned Utilities	67%	67%
Southern California Edison	31.11%	\$15,553,039	Investor-owned Utilities	67%	67%
San Diego Gas & Electric	9.99%	\$4,994,827	Investor-owned Utilities	67%	67%
Los Angeles Department of Water & Power	10.50%	\$5,252,360	Large Publicly-owned Utilities	35%	45%
Sacramento Municipal Utility District	2.06%	\$1,032,214	Large Publicly-owned Utilities	35%	45%
Silicon Valley Power	0.88%	\$438,511	Medium Publicly-owned Utilities	20%	25%
Glendale Water & Power	0.76%	\$382,455	Medium Publicly-owned Utilities	20%	25%
City of Palo Alto	0.73%	\$364,198	Medium Publicly-owned Utilities	20%	25%
City of Anaheim Public Utilities Department	0.73%	\$363,397	Medium Publicly-owned Utilities	20%	25%
Pasadena Water & Power	0.61%	\$306,221	Medium Publicly-owned Utilities	20%	25%
Burbank Water & Power	0.41%	\$204,841	Medium Publicly-owned Utilities	20%	25%
City of Riverside	0.34%	\$168,485	Medium Publicly-owned Utilities	20%	25%
Roseville Electric	0.27%	\$136,614	Medium Publicly-owned Utilities	20%	25%
Modesto Irrigation District	0.37%	\$183,861	Medium Publicly-owned Utilities	20%	25%
Imperial Irrigation District	0.16%	\$81,039	Medium Publicly-owned Utilities	20%	25%
Turlock Irrigation District	0.14%	\$69,028	Medium Publicly-owned Utilities	20%	25%

Electric Distribution Utility (“EDU”)	CVRP % All EDUs	Initial EDU Contribution	EDU Category	Required Percentage Contribution in years 2019-2022	Required Percentage Contribution in 2023 and thereafter
Redding Electric Utility	0.05%	\$23,544	Medium Publicly-owned Utilities	20%	25%
City of Vernon Public Utilities	0.01%	\$4,485	Medium Publicly-owned Utilities	20%	25%
Alameda Municipal Power	0.37%	\$184,822	Small Publicly-owned Utilities	0%	2%
City of Cerritos	0.29%	\$142,700	Small Publicly-owned Utilities	0%	2%
Modesto Irrigation District	0.08%	\$40,680	Small Publicly-owned Utilities	0%	2%
Merced Irrigation District	0.06%	\$28,348	Small Publicly-owned Utilities	0%	2%
Azusa Light & Power	0.06%	\$28,188	Small Publicly-owned Utilities	0%	2%
Moreno Valley Utility	0.04%	\$20,820	Small Publicly-owned Utilities	0%	2%
City of Healdsburg Electric Department	0.04%	\$19,700	Small Publicly-owned Utilities	0%	2%
Colton Electric Utility Department	0.03%	\$15,055	Small Publicly-owned Utilities	0%	2%
Lodi Electric Utility	0.03%	\$14,574	Small Publicly-owned Utilities	0%	2%
Liberty Utilities	0.03%	\$12,973	Small Investor-owned Utilities	0%	2%
PacifiCorp	0.02%	\$9,289	Small Investor-owned Utilities	0%	2%
Truckee Donner Public Utilities District	0.01%	\$6,086	Small Publicly-owned Utilities	0%	2%
City of Lompoc Electric Division	0.01%	\$5,766	Small Publicly-owned Utilities	0%	2%
City of Ukiah Electric Utilities Division	0.01%	\$5,125	Small Publicly-owned Utilities	0%	2%
Rancho Cucamonga Municipal Utility	0.01%	\$5,125	Small Publicly-owned Utilities	0%	2%

Electric Distribution Utility ("EDU")	CVRP % All EDUs	Initial EDU Contribution	EDU Category	Required Percentage Contribution in years 2019-2022	Required Percentage Contribution in 2023 and thereafter
Bear Valley Electric Service	0.01%	\$2,563	Small Investor-owned Utilities	0%	2%
City of Corona Department of Water & Power	0.01%	\$2,563	Small Publicly-owned Utilities	0%	2%
City of Banning Electric Department	0.00%	\$1,441	Small Publicly-owned Utilities	0%	2%
Trinity Public Utilities District	0.00%	\$1,281	Small Publicly-owned Utilities	0%	2%
City of Shasta Lake	0.00%	\$1,121	Small Publicly-owned Utilities	0%	2%
Lassen Municipal Utility District	0.00%	\$320	Small Publicly-owned Utilities	0%	2%
Gridley Electric Utility	0.00%	\$160	Small Publicly-owned Utilities	0%	2%
Shelter Cove Resort Improvement District	0.00%	\$160	Small Publicly-owned Utilities	0%	2%
Total	100.00%	\$50,000,000			

APPENDIX B

PRELIMINARY DATA COLLECTION TEMPLATE

Additional data items may be added to the template below during program development. Some data requested may not be required for participation in the program.

Category	Element	Sample Value
Identification	First Name (Must be same name as the person the vehicle is DMV registered)	John
Identification	Last Name (Must be same name as the person the vehicle is DMV registered)	Doe
Identification	Driver's License Number	A1234567
Location & Contact Information	Vehicle Registration Home Street Number	123
Location & Contact Information	Vehicle Registration Home Street Name	1st Street
Location & Contact Information	Vehicle Registration State	CA
Location & Contact Information	Car Registration Home Zip Code	12345
Location & Contact Information	Email Address	JohnDoe@email.com
Location & Contact Information	Phone Number	(555)555-5555
Vehicle Information	Vehicle Identification Number (VIN)	1HGCM82633A004352
Vehicle Information	Make	Chevrolet
Vehicle Information	Model	Bolt
Vehicle Information	Vehicle Model Year	2019
Vehicle Information	Dealership vehicle was purchased/leased at	EV California Dealers
Vehicle Information	Date Vehicle Purchased/Leased	12/25/2019
Vehicle Information	Vehicle Purchase/Lease Price	\$XX,XXX.00
Utility Information	Utility Provider (electric)	Southern California Edison

EXHIBIT A

PARTICIPATING EDU JOINDER

This JOINDER AGREEMENT ("Joinder Agreement"), dated as of [DATE] is made by [JOINING EDU], a [STATE OF ORGANIZATION] [ENTITY TYPE] (the "Joining EDU"), and delivered to [NAME OF PROGRAM ADMINISTRATOR], in its capacity as Program Administrator (in such capacity and together with any successors in such capacity, the "Program Administrator") under that certain Governance Agreement (as amended, amended and restated, supplemented or otherwise modified from time to time, the "Governance Agreement"; capitalized terms used but not otherwise defined herein shall have the meanings assigned to such terms in the Governance Agreement), dated as of [DATE] made by and among Pacific Gas and Electric Company, San Diego Gas & Electric Company, Southern California Edison Company, Los Angeles Department of Water & Power, Sacramento Municipal Utility District, and the other electric distribution utilities ("EDUs) party thereto.

WHEREAS, the Joining EDU is an EDU operating in the State of California and desires to participate in the CFR Program developed and implemented by the EDUs that are parties to the Governance Agreement and, in order to participate in the CFR Program, the Joining EDU is required by the terms of the Governance Agreement and the LCFS Regulation to be joined as a party to the Governance Agreement as a Participating EDU; and

WHEREAS, this Joinder Agreement supplements the Governance Agreement and is delivered by the Joining EDU pursuant to Section 2.2 of the Governance Agreement; and

WHEREAS, the Joining EDU will materially benefit directly and indirectly from (i) the CFR Program and from the LCFS Base Credits made available and to be made available by CARB to the Joining EDU as a participant in the CFR Program and a Participating EDU under the Governance Agreement, and (ii) from the Program Administrator's administration of the CFR Program on behalf of the Joining EDU and all Participating EDU; and

NOW THEREFORE, the Joining EDU hereby agrees as follows with the Program Administrator and each other Party to the Governance Agreement:

1. Joinder. The Joining EDU hereby irrevocably, absolutely and unconditionally becomes a party to the Governance Agreement as a Participating EDU, as a Party, and in each other capacity (e.g., POU, IOU, Northern EDU, Southern EDU, etc.) under the Governance Agreement that is applicable to the Joining EDU as a Participating EDU and Party thereunder, and agrees to be bound by all the terms, conditions, covenants, obligations, liabilities and undertakings applicable to any such Participating EDU or Party, or to which any such Participating EDU or Party is subject thereunder, all with the same force and effect as if the Joining EDU were an original signatory to the Governance Agreement. Without limiting the generality of the foregoing, (a) the Joining EDU hereby designates and authorizes the Program Administrator to act on its behalf as the Program Administrator under the Governance Agreement and under any Program Agreement, and authorizes the Program Administrator to take such actions on its behalf and to exercise such powers as are delegated to the Program Administrator by the terms hereof or thereof, together with such actions and powers as are reasonably incidental thereto or as otherwise determined by the Steering Committee, in each case

in accordance with the terms and conditions of and for the time period set forth in the Governance Agreement, and (b) the Joining EDU, on its own behalf and on behalf of its Related Entities, does hereby irrevocably, unconditionally, voluntarily, knowingly, fully, finally, completely, and forever grant and make the Release and Covenant Not to Sue, and agrees to the indemnification and other obligations, set forth in ARTICLE 7 of the Governance Agreement with full knowledge and in full agreement with all of the terms, conditions and obligations set forth therein and without limiting the generality of the foregoing expressly acknowledges and agrees that it has been advised of, and does hereby specifically and expressly waive and release all rights under, the provisions of Section 1542 of the Civil Code of California, which provides as follows:

“A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS THAT THE CREDITOR OR RELEASING PARTY DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF EXECUTING THE RELEASE AND THAT, IF KNOWN BY HIM OR HER, WOULD HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR OR RELEASED PARTY.”

2. Affirmations. The Joining EDU hereby makes each of the representations and warranties and agrees to each of the covenants contained in the Governance Agreement that is made by any Participating EDU, Party, and in each other capacity under the Governance Agreement that is applicable to the Joining EDU as a Participating EDU and Party thereunder. The Joining EDU also represents and warrants to the Program Administrator and to each other Party that (a) it has the power and authority, and the legal right, to make, deliver and perform this Joinder Agreement and has taken all necessary action to authorize the execution, delivery and performance of this Joinder Agreement, (b) no consent or authorization of, filing with, notice to or other act by or in respect of, any Governmental Authority or any other Person that has not been obtained, made or completed is required in connection with the execution, delivery and performance, validity or enforceability of this Joinder Agreement, (c) this Joinder Agreement has been duly and validly executed and delivered on behalf of the Joining EDU, (d) the execution, delivery and performance of this Agreement by such Joining EDU will not violate, conflict with, require consent under or result in any breach or default under (i) any of such Joining EDU's organizational, governing or charter documents, (ii) any applicable law, or (iii) with or without notice or lapse of time or both, the provisions of any material contract or agreement to which such Joining EDU is a party or to which any of its material assets are bound, and (e) this Joinder Agreement constitutes a legal, valid and binding obligation of the Joining EDU enforceable against such Joining EDU in accordance with its terms, subject to the effects of bankruptcy, insolvency, fraudulent conveyance, reorganization, moratorium and other similar laws relating to or affecting creditors' rights generally, general equitable principles (whether considered in a proceeding in equity or at law) and an implied covenant of good faith and fair dealing.

3. Miscellaneous. ARTICLE 10 of the Governance Agreement is hereby incorporated into this Joinder Agreement by reference and shall be a part hereof, *mutatis mutandis*.

[Signature page follows]

IN WITNESS WHEREOF, the parties hereto have caused this Joinder Agreement to be executed as of the date first written above by their respective officers thereunto duly authorized.

[NAME OF JOINING EDU]

By _____
Name:
Title:
Contact Information for Notices:

If not already listed on Schedule 1.1 to the Governance Agreement, the Joining EDU hereby elects to be listed thereon as a [Northern EDU/Southern EDU] [**Pick one only**].

AGREED TO AND ACCEPTED:
[NAME OF PROGRAM ADMINISTRATOR][, as Program Administrator]

By _____
Name:
Title:
Contact Information for Notices:

EXHIBIT A

PARTICIPATING EDU JOINDER

This JOINDER AGREEMENT (“Joinder Agreement”), dated as of May 6, 2020 is made by City of Roseville, a California Municipal Corporation (the “Joining EDU”), and delivered to Southern California Edison Company, in its capacity as Program Administrator (in such capacity and together with any successors in such capacity, the “Program Administrator”) under that certain Governance Agreement (as amended, amended and restated, supplemented or otherwise modified from time to time, the “Governance Agreement”; capitalized terms used but not otherwise defined herein shall have the meanings assigned to such terms in the Governance Agreement), dated as of March 3, 2020 made by and among Pacific Gas and Electric Company, San Diego Gas & Electric Company, Southern California Edison Company, Los Angeles Department of Water & Power, Sacramento Municipal Utility District, and the other electric distribution utilities (“EDUs”) party thereto.

WHEREAS, the Joining EDU is an EDU operating in the State of California and desires to participate in the CFR Program developed and implemented by the EDUs that are parties to the Governance Agreement and, in order to participate in the CFR Program, the Joining EDU is required by the terms of the Governance Agreement and the LCFS Regulation to be joined as a party to the Governance Agreement as a Participating EDU; and

WHEREAS, this Joinder Agreement supplements the Governance Agreement and is delivered by the Joining EDU pursuant to Section 2.2 of the Governance Agreement; and

WHEREAS, the Joining EDU will materially benefit directly and indirectly from (i) the CFR Program and from the LCFS Base Credits made available and to be made available by CARB to the Joining EDU as a participant in the CFR Program and a Participating EDU under the Governance Agreement, and (ii) from the Program Administrator’s administration of the CFR Program on behalf of the Joining EDU and all Participating EDU; and

NOW THEREFORE, the Joining EDU hereby agrees as follows with the Program Administrator and each other Party to the Governance Agreement:

1. Joinder. The Joining EDU hereby irrevocably, absolutely and unconditionally becomes a party to the Governance Agreement as a Participating EDU, as a Party, and in each other capacity (e.g., POU, IOU, Northern EDU, Southern EDU, etc.) under the Governance Agreement that is applicable to the Joining EDU as a Participating EDU and Party thereunder, and agrees to be bound by all the terms, conditions, covenants, obligations, liabilities and undertakings applicable to any such Participating EDU or Party, or to which any such Participating EDU or Party is subject thereunder, all with the same force and effect as if the Joining EDU were an original signatory to the Governance Agreement. Without limiting the generality of the foregoing, (a) the Joining EDU hereby designates and authorizes the Program Administrator to act on its behalf as the Program Administrator under the Governance Agreement and under any Program Agreement, and authorizes the Program Administrator to take such actions on its behalf and to exercise such powers as are delegated to the Program Administrator by the terms hereof or thereof, together with such actions and powers as are reasonably incidental thereto or as otherwise determined by the Steering Committee, in each case

in accordance with the terms and conditions of and for the time period set forth in the Governance Agreement, and (b) the Joining EDU, on its own behalf and on behalf of its Related Entities, does hereby irrevocably, unconditionally, voluntarily, knowingly, fully, finally, completely, and forever grant and make the Release and Covenant Not to Sue, and agrees to the indemnification and other obligations, set forth in ARTICLE 7 of the Governance Agreement with full knowledge and in full agreement with all of the terms, conditions and obligations set forth therein and without limiting the generality of the foregoing expressly acknowledges and agrees that it has been advised of, and does hereby specifically and expressly waive and release all rights under, the provisions of Section 1542 of the Civil Code of California, which provides as follows:

“A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS THAT THE CREDITOR OR RELEASING PARTY DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF EXECUTING THE RELEASE AND THAT, IF KNOWN BY HIM OR HER, WOULD HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR OR RELEASED PARTY.”

2. Affirmations. The Joining EDU hereby makes each of the representations and warranties and agrees to each of the covenants contained in the Governance Agreement that is made by any Participating EDU, Party, and in each other capacity under the Governance Agreement that is applicable to the Joining EDU as a Participating EDU and Party thereunder. The Joining EDU also represents and warrants to the Program Administrator and to each other Party that (a) it has the power and authority, and the legal right, to make, deliver and perform this Joinder Agreement and has taken all necessary action to authorize the execution, delivery and performance of this Joinder Agreement, (b) no consent or authorization of, filing with, notice to or other act by or in respect of, any Governmental Authority or any other Person that has not been obtained, made or completed is required in connection with the execution, delivery and performance, validity or enforceability of this Joinder Agreement, (c) this Joinder Agreement has been duly and validly executed and delivered on behalf of the Joining EDU, (d) the execution, delivery and performance of this Agreement by such Joining EDU will not violate, conflict with, require consent under or result in any breach or default under (i) any of such Joining EDU's organizational, governing or charter documents, (ii) any applicable law, or (iii) with or without notice or lapse of time or both, the provisions of any material contract or agreement to which such Joining EDU is a party or to which any of its material assets are bound, and (e) this Joinder Agreement constitutes a legal, valid and binding obligation of the Joining EDU enforceable against such Joining EDU in accordance with its terms, subject to the effects of bankruptcy, insolvency, fraudulent conveyance, reorganization, moratorium and other similar laws relating to or affecting creditors' rights generally, general equitable principles (whether considered in a proceeding in equity or at law) and an implied covenant of good faith and fair dealing.

3. Miscellaneous. ARTICLE 10 of the Governance Agreement is hereby incorporated into this Joinder Agreement by reference and shall be a part hereof, *mutatis mutandis*.

[Signature page follows]

IN WITNESS WHEREOF, the parties hereto have caused this Joinder Agreement to be executed as of the date first written above by their respective officers thereunto duly authorized.

City of Roseville

By _____
Name: Dominick Casey
Title: City Manager
Contact Information for Notices:
311 Vernon Street
Roseville CA 95678

If not already listed on Schedule 1.1 of the Governance Agreement, the Joining EDU hereby elects to be listed thereon as a Northern EDU.

AGREED TO AND ACCEPTED:
Southern California Edison Company, as Program Administrator

By _____
Name:
Title:
Contact Information for Notices:



COUNCIL COMMUNICATION

CC #: 0743
File #: 0800-02

Title: Water Capacity Partnership Exploration - Memorandum of Understanding
Contact: Sean Bigley 916-774-5513 sbigley@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.22.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council approve a Memorandum of Understanding (MOU) with the Placer County Water Agency (PCWA) for exploration of shared water conveyance infrastructure alternatives for additional water supply reliability and authorize the City Manager to execute it.

BACKGROUND

PCWA has been seeking funding partnerships in the proposed Ophir Water Treatment Plant (Ophir WTP) for several years. The intent of these partnerships is to both distribute the cost of this large infrastructure program according to benefits and minimize the debt liability and burden to PCWA's customers. As benefitting financial partners in the Ophir Project have not materialized to date, Roseville and PCWA staff began exploring the concept of partnering, wherein Roseville and PCWA share existing infrastructure and treated water capacity for some period of time, prior to constructing Ophir WTP, which has benefits to both agencies. This partnership may address some, or part of Roseville's primary interest in the Ophir Project which is redundancy and reliability.

PCWA, as well as other potential funding partners, have the fundamental objective of maximizing use of existing treated water capacity to defer construction of Ophir WTP as long as prudently possible. This objective is to minimize the amount of capital to be financed when ultimately constructing the project.

Available treated water capacity has recently been improved by reduced demand habits within PCWA's service territory persisting since the last drought and by small improvement projects constructed at Foothill WTP. It is currently estimated that PCWA will need Ophir WTP online in the early 2030s, assuming a rate of absorption of 700 units of capacity per year. This time could be much farther out if weaker economic conditions prevail.

Delaying construction of Ophir WTP benefits project financing; however, doing so delays the provision of a surface water supply alternative to Folsom Reservoir for the City of Roseville. A concept that has been discussed between Roseville Environmental Utilities staff and PCWA staff includes more near-term sharing of existing treated water capacity at Roseville's Barton Road

WTP during normal conditions and PCWA's Foothill WTP in the event Folsom Reservoir level is too low to serve the intake serving the Barton Road WTP. The benefit to PCWA is that Roseville could use Barton Road WTP to serve PCWA customers in western Placer County, under an existing wheeling agreement, which can further delay the need for Ophir WTP. In exchange, PCWA could use its conserved water during times of extreme drought, when Folsom Reservoir level is not adequate, to provide surface water supplies to the City of Roseville, under an existing "take or pay" water service contract between the City of Roseville and PCWA.

The attached MOU will allow for an initial exploration and planning effort to commence which will include analyzing the feasibility of sharing in water conveyance capacity in the manner described. This would include both a supply and demand analysis as well developing needed infrastructure alternatives. The proposed concept is not intended to alter water rights or put undue conservation on either party, rather, only to share in capacity that may already exist at times when it is not being used. The proposed not-to-exceed total for any outside services is \$100,000, to be split equally for \$50,000 each between the City of Roseville and PCWA. Any projects or operational agreements resulting from this exploration would require subsequent agreement of both the Roseville City Council and the PCWA Board of Directors.

FISCAL IMPACT

Under the proposed MOU, PCWA and the City of Roseville would share in costs of up to \$100,000 (\$50,000 for the City of Roseville, \$50,000 for PCWA). The City's \$50,000 is budgeted in the FY2019-20 Water Administration budget, funded within the Water Operations Fund which receives revenue through water utility service.

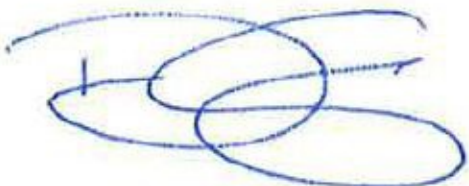
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. A Memorandum of Understanding meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Sean Bigley, Assistant Environmental Utilities Director

Richard D. Plecker, Environmental Utilities Director

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, positioned above a solid horizontal line.

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-131

PCWA-Roseville Treated Water Capacity Partnership

RESOLUTION NO. 20-131

APPROVING A MEMORANDUM OF UNDERSTANDING FOR EXPLORATION INTO A WATER CAPACITY PARTNERSHIP, BY AND BETWEEN THE CITY OF ROSEVILLE AND THE PLACER COUNTY WATER AGENCY, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a Memorandum of Understanding for Exploration into a Water Capacity Partnership, by and between the City of Roseville and the Placer County Water Agency, has been reviewed by the City Council;

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said Memorandum of Understanding is approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the City Council of the City of Roseville this _____ day of _____, 20____, by the following vote on roll call:

AYES COUNCIL MEMBER:

NOES COUNCIL MEMBER:

ABSENT COUNCIL MEMBER:

Mayor

ATTEST:

City Clerk

**MEMORANDUM OF UNDERSTANDING
FOR
EXPLORATION INTO A WATER CAPACITY PARTNERSHIP**

This Memorandum of Understanding for exploration of the sharing of available water capacity, also known as the Water Capacity Partnership (hereinafter, "MOU"), is entered into by and among the City of Roseville, a municipal corporation (hereinafter, "Roseville") and the Placer County Water Agency, a public agency (hereinafter, the "Agency") and will take effect as of the date on which both Roseville and the Agency have executed this MOU. Roseville and the Agency may be collectively referred to as the "Parties," or each individually as a "Party."

RECITALS

A. Whereas, Roseville and the Agency have an existing "Contract Between the Placer County Water Agency and the City of Roseville Relating to Water Supplies and Exchanges," dated September 1, 2010 (hereinafter, "2010 Contract"); and

B. Whereas, the Agency has rights granted by the State of California Water Resources Control Board ("Water Board") to divert up to 120,000 acre-feet of water for consumptive use from its Middle Fork Project, a hydroelectric power generation project on the Middle Fork of the American River; and

C. Whereas, water supplied from the Middle Fork Project can be beneficially used within a service area covering western Placer County, including Roseville, as permitted by the Water Board; and

D. Whereas, the 2010 Contract provides for Roseville's Annual Entitlement of up to 30,000 acre-feet of water from the Agency's Middle Fork Project (based upon an incremental "build up" schedule), with delivery of the water from the Agency to Roseville at Folsom Reservoir; and

E. Whereas, the 2010 Contract also provides Roseville a right to participate in the enlargement of an Agency water treatment plant having the capability of delivering water diverted from the Agency's pump station at the North Fork American River at Auburn; and

F. Whereas, the Parties wish to delay construction of new treated water capacity as long as possible to curtail infrastructure financing costs and depreciation; and

G. Whereas, since the drought beginning in 2014 and ending in 2016, peak day demands in the Parties' treated water systems have consistently been lower than prior to the drought, which has made capacity available; and

H. Whereas, the Parties wish to explore leveraging their existing water capacity by strategically sharing reasonable portions of existing capacity in a manner that extends the time needed before the construction of additional capacity by either Party; and

I. Whereas, delivery of water from Folsom Reservoir is subject to United States Bureau of Reclamation ("USBR") operations of its Central Valley Project ("CVP") and is vulnerable to drought, when reservoir levels can become extraordinarily low and fall below the intake serving Roseville and halt delivery of water provided under the 2010 Contract, as well as Roseville's CVP supply from the USBR; and

J. Whereas, the Parties wish to explore a new option for water to be delivered to Roseville through the Agency's pump station at the North Fork American River at Auburn as treated water; and

K. Whereas, the Parties share existing treated water interties along the shared boundaries of their service areas and at delivery points into the California-American Water Company franchise service area, that can be used to share existing capacity; and

L. Whereas, the Parties recognize that construction of additional water facilities for the benefit of sharing capacity, as provided for herein, would also provide redundancy and operational flexibility within each Party's water system.

NOW, THEREFORE, in consideration of the mutual obligations set forth herein, the Parties hereby understand and agree as follows:

AGREEMENT

1. Incorporation of Recitals. The foregoing recitals are hereby incorporated by reference.
2. Purpose. The purpose of this MOU is to establish a cost-sharing partnership that enables the Parties to coordinate efforts to explore the feasibility, infrastructure needs, and costs of sharing of water capacity and augmenting access to contracted water supplies. Such sharing would be both in times of normal water supply and in drought, as well as during other water supply emergencies.

Nothing in this MOU grants the Parties any power or authority to alter any water right, contract right or any similar right of the other Party or to direct the water-delivery practices of the other Party without the prior written consent of the Party and receipt of all required approvals.

The Parties anticipate that any future development or implementation of the partnership would be governed by future agreement(s), and approval of any such agreements will be subject to compliance with the California Environmental Quality Act and all other applicable environmental laws or regulations.

3. Technical Evaluations. The following are technical evaluations that the Parties have identified as necessary to complete in order to achieve the purpose of this MOU:
 - a. The amount of water capacity that can be shared by each Party and where this capacity can be delivered to the other Party;
 - b. The extent and location of new treated demands within each Parties' service area that can be met until construction of a new water treatment plant;
 - c. Identification of new water facilities within each Party's service area necessary to deliver the capacity identified in (a) above;
 - d. Impacts to each Party's drought resiliency under a scenario of shared water capacity;
 - e. Other operational matters as identified during course of exploration;
 - f. Implementation plans for construction and operation of new facilities, including cost share between the Parties.
4. Performance. In order to perform the technical evaluations outlined herein, the Parties will both utilize their own internal staff as well as retain outside services when deemed necessary. The retention of any outside services will be performed pursuant to Paragraph 5, Cost Sharing.
5. Cost Sharing. It is the intent of the Parties to split equally the costs of any outside services undertaken pursuant to this MOU, such as engineering, financial, or public outreach consulting costs. The following terms apply with respect to the retention of such outside services and project-related costs:
 - a. Staff time, overhead, and internal costs borne by each Party may be separately tracked by same at the Party's sole discretion, but there is no obligation to report these costs to the other Party nor any right to pursue reimbursement for same from the other Party;
 - b. Either Party may retain outside services to perform or assist in the performance of technical evaluations, but such retention is subject to the other Party's approval of the service provider, scope of work, and not-to-exceed cost of the services;
 - c. The total cost of outside services shall not exceed \$100,000, split equally between the Parties. Any changes to this total cost amount shall be by written amendment to this MOU;
 - d. Each Party shall follow its respective legal requirements, policies, and procedures in the retention of outside services;

- e. Upon payment for approved outside services, each Party shall promptly invoice the other for its equal share of actual costs. Payment by the other Party is due within sixty (60) days of receipt of invoice.
6. Notices. All notices that are required either expressly or by implication to be given by any party to the other under this MOU shall only be signed by authorized officers of the notifying party.

All notices to Parties required by this MOU shall be delivered personally or mailed, U.S. first class postage prepaid, to the following addresses:

Roseville

City Manager
311 Vernon Street
Roseville, CA 95768

PCWA

General Manager
P.O. Box 6570
Auburn, CA 95604

7. Term. This MOU will remain in full force and effect until one of the following occurs: (a) the MOU is terminated by either Party upon thirty (30) days' written notice; or (b) the technical evaluations have been completed and no obligations under this MOU, including payment for outside services as set forth in Paragraph 5, remain outstanding.
8. Termination. If this MOU is terminated pursuant to Paragraph 7, each Party will remain responsible for its share of financial obligations or indebtedness incurred under this MOU prior to the effective date of termination.
9. Amendments. Any amendments to this MOU must be in writing and executed by both Parties.
10. Sharing of Records and Access. The Parties shall maintain records directly pertinent to performance of technical evaluations under this MOU for a minimum of three (3) years. Where an outside provider is retained, the retaining Party shall promptly provide the other Party with copies of any reports, spreadsheets, and other project-related data or documents. Each Party shall have access to such project-specific records of the other Party for the purpose of inspection and copying.
11. Choice of Law. This MOU shall be governed by the laws of the State of California. The Parties each waive any federal court removal and/or jurisdictional rights they may have.
12. Dispute Resolution. In recognition of the negative consequences associated with disputes both in terms of lost time and expense to all Parties, the Parties agree to attempt to settle their disputes by good-faith, non-binding mediation as a condition precedent to the institution of legal proceedings by either Party. Request for mediation shall be filed in writing with the other Party to this MOU and with the American Arbitration Association. If mediation would jeopardize the substantive rights of either Party including, but not limited to, the application of any applicable statute of limitations or other timing

requirement, then such Party may proceed to enforce such rights notwithstanding this mediation requirement and mediation will be required during the dispute resolution process to the extent it may be used without jeopardizing the substantive rights of either Party. The Parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in Placer County, California unless another location is mutually agreed upon.

13. Headings. The paragraph headings used in this MOU are intended for convenience only and shall not be used in interpreting this MOU or in determining any of the rights or obligations of the Parties to this MOU.
14. No Third Party Beneficiaries. The Parties understand and agree that this MOU creates rights and obligations solely between the Parties and is not intended to benefit any other party. No provision of this MOU shall in any way inure to the benefit of any third person so as to constitute any such third-person as a third-party beneficiary of this MOU or any of its items of conditions, or otherwise give rise to any cause of action in any person not a party hereto.
15. Reasonable Cooperation; No Agency. The Parties will reasonably cooperate with each other, including the execution of all necessary documents required to perform the obligations under this MOU, and to carry out the purpose and intent of this MOU; provided that each Party understands and agrees that there is no agency or joint venture relationship between the Parties, and no Party is authorized to act for or on behalf of any other Party except as expressly authorized under this MOU.
16. Construction and Interpretation. This MOU is entered into freely and voluntarily. This MOU has been arrived at through negotiation, and each Party has had a full and fair opportunity to revise the terms of this MOU. Consequently, the normal rule of construction that any ambiguities are to be resolved against the drafting party will not apply in construing or interpreting this MOU.
17. Liabilities. Each Party understands and agrees that any internal, in-house or administrative costs or expenses incurred by any Party related to that Party's obligations under this MOU shall be the sole responsibility of the Party incurring said costs and expenses.

With the exception of the agreed cost sharing set forth in Paragraph 5, the Parties expressly agree that the debts, liabilities and obligations of each Party shall remain the debts, liabilities and obligations of that Party alone and shall not be the debts, liabilities and obligations of any other Party to this MOU, except as may be otherwise set forth herein or in an amendment to this MOU.

18. Counterparts. The Parties agree that this MOU may be executed and delivered in counterparts which, when taken together, shall constitute a fully-executed MOU. In

addition, this MOU may be executed via electronic pdf transmission and any such pdf signature shall be deemed to be an original signature.

The foregoing is hereby agreed to by the Parties.

IN WITNESS THEREOF, the Parties have executed this MOU as of the dates written below and the City of Roseville, a municipal corporation, has authorized the execution of this MOU by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__.

PLACER COUNTY WATER AGENCY

Chair of the Board

Date: _____

ATTEST:

Clerk, Board of Directors
Placer County Water Agency
P.O. Box 6570
Auburn, California 95604

Date: _____

CITY OF ROSEVILLE

DOMINICK CASEY
City Manager

Date: _____

ATTEST:

SONIA OROZCO
City Clerk

Date: _____

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: 
RICHARD D. PLECKER
Environmental Utilities Director



COUNCIL COMMUNICATION

CC #: 0746
File #: 0800-04

Title: On-Call Resident Engineering and Inspection Services - Professional Services Agreements Amendments
Contact: Beth Taylor 916-746-1300 bftaylor@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.23.

RECOMMENDATION TO COUNCIL

Staff recommends the City Council adopt three resolutions to approve the First Amendment to Professional Services Agreements for on-call resident engineering and inspection services with: HDR Construction Corporation; PSOMAS; and Hanna Engineering, Inc. dba The Hanna Group, and authorize the City Manager to execute them.

Staff also requests, as part of each resolution, that the City Council authorize the City Manager to execute the remaining one year extension to each Agreement without further Council approval.

BACKGROUND

After a competitive Request for Proposal process, at their May 10, 2017 meeting, City Council approved three resolutions to enter into Profession Service Agreements with HDR Construction Corporation; PSOMAS; and Hanna Engineering, Inc. dba The Hanna Group for on-call resident engineering and inspection services for a term of three years, with the option of two additional one year extensions, and a not-to-exceed fee for each Agreement of \$1.5 million over the first three-year term. These recommended first amendments extend the contract one year, to May 10, 2021 and increase the contract compensation not-to-exceed fees for each amendment by \$1 million for a total not to exceed fee per contract of \$2.5 million. The Agreements have been and will continue to be funded by various Capital Improvement Program project budgets.

The Public Works Engineering Division is responsible for constructing and repairing City infrastructure such as roads, bridges, drainage facilities, traffic signals, and municipal buildings. Multiple Capital Improvement Program (CIP) projects must be completed every year. Some of the recently completed CIP projects constructed utilizing the existing On-Call agreements are Woodcreek Oaks Widening, Oak Street Parking Garage, Louis Orlando Transfer Station, Sierra Gardens Transfer Point, 2019 Residential Resurfacing, and 2019 Curb Ramp and Concrete Project. These projects represent approximately \$27,000,000 in construction improvements completed timely and efficiently in part due to the support of the on-call resident engineering and inspection consultant contracts.

The Engineering Division anticipates constructing multiple CIP projects this year at an estimated cost of \$15 million, and anticipates the same for 2021. For these projects to be successful, cost efficient, and safe, they must be managed by a team of engineers and inspectors. Some of these projects will be managed by City staff, but additional consultant resources are necessary to supplement City staff and manage the rest due to lean staffing levels. These contract services allow staff to complete more projects without hiring additional permanent City employees. Projects requiring contract construction management that are anticipated to be constructed in 2020 include Oak Street Parking Garage Sealing Project, Arterial Roadway Resurfacing, Oak Ridge Drive Bridge Replacement, Washington Blvd Bikeway and Pedestrian Pathways Project, and the Bridge Preventative Maintenance Project. The most cost effective and time efficient method of obtaining these additional resources is through multiple on-call Professional Service Agreements.

FISCAL IMPACT

The estimated cost for resident engineer and inspection services provided by these three Agreements for projects planned to be constructed over the next year is \$3,000,000. The Agreements will be funded by various Council -pproved CIP project budgets. No General Fund resources will be used.

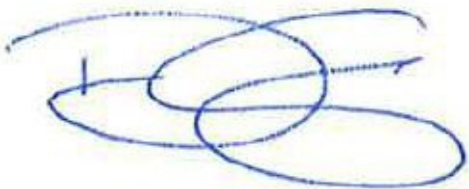
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. First Amendments to Professional Services Agreements meet the above criteria and are not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Beth Taylor, Assistant Engineer

Jason Shykowski, Public Works Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-136

1st Amendment- THG

Resolution No. 20-137

1st Amendment- HDR

Resolution No. 20-138

1st Amendment- PSOMAS

RESOLUTION NO. 20-136

APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY
AND BETWEEN THE CITY OF ROSEVILLE AND HANNA ENGINEERING, INC. DBA
THE HANNA GROUP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON
BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a first amendment to professional services agreement for On-Call Resident Engineer and Inspection Services, by and between the City of Roseville and Hanna Engineering, Inc. dba The Hanna Group, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute one (1) additional one (1) year renewal without further City Council approval, provided that the applicable budget is approved by the City Council.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**FIRST AMENDMENT TO
PROFESSIONAL SERVICES AGREEMENT**

On-Call Construction Resident Engineer and Inspection Services

THIS FIRST AMENDMENT TO AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation (“CITY”), and Hanna Engineering, Inc. dba The Hanna Group, a California corporation (“CONSULTANT”); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into a Professional Services Agreement dated May 10, 2017 (“Agreement”) regarding on-call construction resident engineer and inspection services (“Project”); and

WHEREAS, CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period and CONSULTANT is willing and able to provide such services.

NOW, THEREFORE, the parties agree as follows:

1. Paragraph 1 of the Agreement is amended by adding an additional paragraph to read as follows:

“The term of this First Amendment to Agreement shall be one (1) year commencing May 10, 2020 and ending on May 9, 2021.”

2. Paragraph 3 of the Agreement is amended by adding an additional paragraph to read as follows:

“CITY shall pay one million dollars (\$1,000,000), bringing the total not to exceed contract amount to two million, five hundred thousand dollars (\$2,500,000).”

3. Paragraph 4 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.”

4. Paragraph 13 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the public as available to provide the same or similar services; (h) CONSULTANT

provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and location of work in accomplishing CITY's on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement."

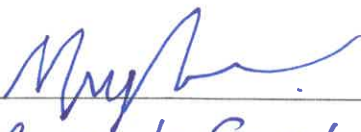
5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20____, and CONSULTANT has caused this First Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

HANNA ENGINEERING, INC. DBA
THE HANNA GROUP, a
California corporation

BY: _____
DOMINICK CASEY
City Manager

BY: 
its: Corporate Secretary
Mary Jo O'Brien

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

ATTEST:

and

BY: _____

BY: _____
SONIA OROZCO
City Clerk

its: _____

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY:  _____
JASON SHYKOWSKI
Public Works Director

RESOLUTION NO. 20-137

APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY
AND BETWEEN THE CITY OF ROSEVILLE AND HDR CONSTRUCTION CONTROL
CORPORATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON
BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a first amendment to professional services agreement for On-Call Resident Engineer and Inspection Services, by and between the City of Roseville and HDR Construction Control Corporation, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute one (1) additional one (1) year renewal without further City Council approval, provided that the applicable budget is approved by the City Council.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**FIRST AMENDMENT TO
PROFESSIONAL SERVICES AGREEMENT**

On-Call Construction Resident Engineer and Inspection Services

THIS FIRST AMENDMENT TO AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation (“CITY”), and HDR Construction Control Corporation, a Nebraska corporation (“CONSULTANT”); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into a Professional Services Agreement dated May 10, 2017 (“Agreement”) regarding on-call construction resident engineer and inspection services (“Project”); and

WHEREAS, CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period and CONSULTANT is willing and able to provide such services.

NOW, THEREFORE, the parties agree as follows:

1. Paragraph 1 of the Agreement is amended by adding an additional paragraph to read as follows:

“The term of this First Amendment to Agreement shall be one (1) year commencing May 10, 2020 and ending on May 9, 2021.”

2. Paragraph 3 of the Agreement is amended by adding an additional paragraph to read as follows:

“CITY shall pay one million dollars (\$1,000,000), bringing the total not to exceed contract amount to two million, five hundred thousand dollars (\$2,500,000).”

3. Paragraph 4 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.”

4. Paragraph 13 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and

location of work in accomplishing CITY's on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement."

5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this First Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

HDR CONSTRUCTION CONTROL
CORPORATION, a Nebraska corporation

BY: _____
DOMINICK CASEY
City Manager

BY: _____
its: *vice president*

ATTEST:

and

BY: _____
SONIA OROZCO
City Clerk

BY: _____
its: _____

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

location of work in accomplishing CITY's on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement."

5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this First Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

BY: _____
DOMINICK CASEY
City Manager

ATTEST:

BY: _____
SONIA OROZCO
City Clerk

HDR CONSTRUCTION CONTROL
CORPORATION, a Nebraska corporation

BY: _____
its: Vice President

and

BY: _____
its: Vice President

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

APPROVED AS TO FORM:

BY: _____

ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____



JASON SHYKOWSKI
Public Works Director

CERTIFICATE

The undersigned hereby certifies that she is the Assistant Secretary of HDR Construction Control Corporation, a Nebraska corporation (the "Corporation"), and that, as such, has custody of the minute books of the Corporation, and that, by Consent and Agreement of the Board of Directors, the following resolution was unanimously adopted:

"RESOLVED, that effective immediately, and until termination of said individual from the Corporation, or until rescission by the Corporation's Board of Directors, whichever occurs first, the following individuals are hereby granted the nondelegable authority to execute or approve on behalf of the Corporation, contracts, amendments or change orders for engineering services and architectural services incidental to engineering services to be rendered by the Corporation, . . . , or releases of claim or lien in connection with such services, such contracts, amendments, change orders or releases so executed or approved shall be binding upon the Corporation:

. . . Jason A. Tom – Vice President . . ."

The undersigned further certifies that the foregoing resolution has been spread in full upon the minute books of the Corporation and is in full force and effect.

DATED February 26, 2020.




Elizabeth C. Buell, Assistant Secretary

RESOLUTION NO. 20-138

APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY
AND BETWEEN THE CITY OF ROSEVILLE AND PSOMAS, AND AUTHORIZING THE
CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a first amendment to professional services agreement for On-Call Resident Engineer and Inspection Services, by and between the City of Roseville and Psomas, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute one (1) additional one (1) year renewal without further City Council approval, provided that the applicable budget is approved by the City Council.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**FIRST AMENDMENT TO
PROFESSIONAL SERVICES AGREEMENT**

On-Call Construction Resident Engineer and Inspection Services

THIS FIRST AMENDMENT TO AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and Psomas, a California corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into a Professional Services Agreement dated May 10, 2017 ("Agreement") regarding on-call construction resident engineer and inspection services ("Project"); and

WHEREAS, CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period and CONSULTANT is willing and able to provide such services.

NOW, THEREFORE, the parties agree as follows:

1. Paragraph 1 of the Agreement is amended by adding an additional paragraph to read as follows:

"The term of this First Amendment to Agreement shall be one (1) year commencing May 10, 2020 and ending on May 9, 2021."

2. Paragraph 3 of the Agreement is amended by adding an additional paragraph to read as follows:

“CITY shall pay one million dollars (\$1,000,000), bringing the total not to exceed contract amount to two million, five hundred thousand dollars (\$2,500,000).”

3. Paragraph 4 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.”

4. Paragraph 13 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and

location of work in accomplishing CITY's on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement."

5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this First Amendment to Agreement to be executed.

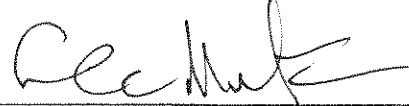
CITY OF ROSEVILLE, a
municipal corporation

PSOMAS, a California corporation

BY: _____
DOMINICK CASEY
City Manager

BY:  _____
its: CEO

ATTEST:

and
BY:  _____

BY: _____
SONIA OROZCO
City Clerk

its: VICE PRESIDENT

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: Jason Shykowski Digitally signed by Jason Shykowski
Date: 2020.04.06 15:32:13 -07'00'

JASON SHYKOWSKI
Public Works Director



COUNCIL COMMUNICATION

CC #: 0744
File #: 0800-02

Title: On-Call Material Testing Services - Professional Services Agreements Amendments
Contact: Beth Taylor 916-746-1300 bftaylor@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.24.

RECOMMENDATION TO COUNCIL

Staff recommends the City Council adopt three resolutions to approve the First Amendment to Professional Services Agreements for on-call material testing services with: Holdrege & Kull; Blackburn Consulting; and Twining, Inc., and authorize the City Manager to execute them. Staff also requests, as part of each resolution, that the City Council authorize the City Manager to execute the remaining one year extension to each Agreement without further Council approval.

BACKGROUND

After a competitive Request for Proposals process, at their May 17, 2017 meeting, City Council approved three resolutions to enter into Professional Services Agreements with Holdrege & Kull; Blackburn Consulting; and Twining, Inc. for on-call material testing services for a term of three years, with the option of two additional one-year extensions, and a not-to-exceed fee for each Agreement of \$900,000 over the first three-year term. These recommended first amendments extend the contracts by one year to May 17, 2021, and increase the contract compensation not-to-exceed fees for each amendment by \$300,000 each, to a total of \$1.2 million per contract. The Agreements have been and will continue to be funded by various Capital Improvement Program projects.

The Public Works Engineering Division is responsible for constructing and repairing City infrastructure such as roads, bridges, drainage facilities, traffic signals, and municipal buildings. Several Capital Improvement Program (CIP) projects must be completed every year. Since the late 1990's, engineering staff has utilized professional service agreements for material testing services to ensure materials supplied and placed within City right-of-way and public utility easements meet the requirements of City Standards. Recently completed CIP projects that have utilized the current on-call material testing contracts include Hillcrest Drainage Improvements, Woodcreek Oaks Widening, 2018 Roller Compacted Concrete, Sierra Gardens Transfer Point, 2019 Residential Resurfacing, and Royer Park to Harding Bike Trail Segment 3. These projects represent approximately \$23,000,000 in construction improvements completed to city standard due in part to the support of the on-call materials testing consultant contracts.

The Engineering Division anticipates constructing several CIP projects this year at an estimated cost of approximately \$15,000,000, and anticipates the same in 2021. Projects requiring contract material testing services that are anticipated to be constructed in 2020 include: Oak Street Parking Garage Sealing Project, Arterial Roadway Resurfacing, Oak Ridge Drive Bridge Replacement, Washington Blvd Bikeway and Pedestrian Pathways Project, and the Bridge Preventative Maintenance Project. The most cost effective and time efficient method of obtaining these additional services is through multiple on-call Professional Services Agreements.

FISCAL IMPACT

The estimated cost for material testing services provided by these three Agreements for projects planned to be constructed over the next year is \$900,000. The Agreements will be funded by various Council approved CIP project budgets. No General Fund resources will be used.

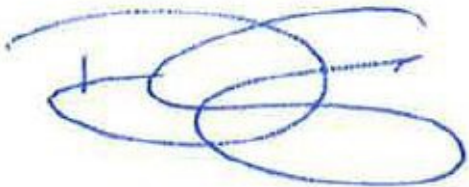
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. Agreements for Material Testing Services meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Beth Taylor, Assistant Engineer

Jason Shykowski, Public Works Director

A handwritten signature in blue ink, appearing to read 'Dominick Casey', with a horizontal line extending to the right.

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-132

Blackburn 1st Amendment

Resolution No. 20-133

Holdrege and Kull 1st Amendment

Resolution No. 20-134
Twining 1st Amendment

RESOLUTION NO. 20-132

APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY
AND BETWEEN THE CITY OF ROSEVILLE AND BLACKBURN CONSULTING, AND
AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF
THE CITY OF ROSEVILLE

WHEREAS, a first amendment to professional services agreement for On-Call Material Testing Services, by and between the City of Roseville and Blackburn Consulting, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute one (1) additional one (1) year renewal without further City Council approval, provided that the applicable budget is approved by the City Council.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**FIRST AMENDMENT TO
PROFESSIONAL SERVICES AGREEMENT**

On-Call Material Testing Services

THIS FIRST AMENDMENT TO AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and Blackburn Consulting, a California corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into a Professional Services Agreement dated May 17, 2017 ("Agreement") regarding on-call material testing services ("Project"); and

WHEREAS, CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period and CONSULTANT is willing and able to provide such services.

NOW, THEREFORE, the parties agree as follows:

1. Paragraph 2 of the Agreement is amended by adding an additional paragraph to read as follows:

"CITY shall pay three hundred thousand dollars (\$300,000), bringing the total not to exceed contract amount to one million, two hundred thousand dollars (\$1,200,000)."

2. Paragraph 3 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.”

3. Paragraph 12 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and location of work in accomplishing CITY’s on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.”

4. Paragraph 21 of the Agreement is amended by adding an additional paragraph to read as follows:

“The term of this First Amendment to Agreement shall be one (1) year commencing May 17, 2020 and ending on May 16, 2021.”

5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this First Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

BY: _____
DOMINICK CASEY
City Manager

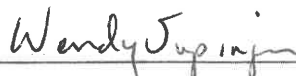
ATTEST:

BY: _____
SONIA OROZCO
City Clerk

BLACKBURN CONSULTING, a
California corporation

BY:  PE, GE 2311
its: Thomas Blackburn, President

and

BY: 
its: Wendy Supinger, CFO

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____
Jason Shykowski
Public Works Director

Digitally signed by Jason Shykowski
Date: 2020.04.02 12:43:02 -07'00'

RESOLUTION NO. 20-133

APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND HOLDREGE & KULL, CONSULTING ENGINEERS AND GEOLOGISTS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a first amendment to professional services agreement for On-Call Material Testing Services, by and between the City of Roseville and Holdrege & Kull, Consulting Engineers and Geologists, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute one (1) additional one (1) year renewal without further City Council approval, provided that the applicable budget is approved by the City Council.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**FIRST AMENDMENT TO
PROFESSIONAL SERVICES AGREEMENT**

On-Call Material Testing Services

THIS FIRST AMENDMENT TO AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation (“CITY”), and Holdrege & Kull, Consulting Engineers and Geologists, a California corporation (“CONSULTANT”); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into a Professional Services Agreement dated May 17, 2017 (“Agreement”) regarding on-call material testing services (“Project”); and

WHEREAS, CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period and CONSULTANT is willing and able to provide such services.

NOW, THEREFORE, the parties agree as follows:

1. Paragraph 2 of the Agreement is amended by adding an additional paragraph to read as follows:

“CITY shall pay three hundred thousand dollars (\$300,000), bringing the total not to exceed contract amount to one million, two hundred thousand dollars (\$1,200,000).”

2. Paragraph 3 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.”

3. Paragraph 12 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and location of work in accomplishing CITY’s on-call needs; and (k) CONSULTANT has

the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.”

4. Paragraph 21 of the Agreement is amended by adding an additional paragraph to read as follows:

“The term of this First Amendment to Agreement shall be one (1) year commencing May 17, 2020 and ending on May 16, 2021.”

5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this First Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

HOLDREGE & KULL, CONSULTING
ENGINEERS AND GEOLOGISTS, a
California corporation

BY: _____
DOMINICK CASEY
City Manager

BY: 
its: Corporate Secretary
Mary Jo O'Brien

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

ATTEST:

BY: _____
SONIA OROZCO
City Clerk

and

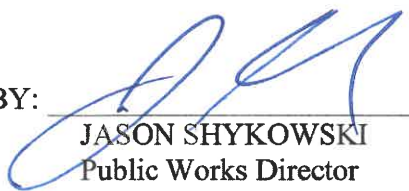
BY: _____


its: Sa Vic President
Guillaume Gau

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____

JASON SHYKOWSKI
Public Works Director

RESOLUTION NO. 20-134

APPROVING A FIRST AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND TWINING, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a first amendment to professional services agreement for On-Call Material Testing Services, by and between the City of Roseville and Twining, Inc., has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute one (1) additional one (1) year renewal without further City Council approval, provided that the applicable budget is approved by the City Council.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

**FIRST AMENDMENT TO
PROFESSIONAL SERVICES AGREEMENT**

On-Call Material Testing Services

THIS FIRST AMENDMENT TO AGREEMENT is made and entered into this ____ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and Twining, Inc., a California corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into a Professional Services Agreement dated May 17, 2017 ("Agreement") regarding on-call material testing services ("Project"); and

WHEREAS, CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period and CONSULTANT is willing and able to provide such services.

NOW, THEREFORE, the parties agree as follows:

1. Paragraph 2 of the Agreement is amended by adding an additional paragraph to read as follows:

"CITY shall pay three hundred thousand dollars (\$300,000), bringing the total not to exceed contract amount to one million, two hundred thousand dollars (\$1,200,000)."

2. Paragraph 3 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.”

3. Paragraph 12 of the Agreement is amended by adding an additional paragraph to read as follows:

“CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and location of work in accomplishing CITY’s on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.”

4. Paragraph 21 of the Agreement is amended by adding an additional paragraph to read as follows:

“The term of this First Amendment to Agreement shall be one (1) year commencing May 17, 2020 and ending on May 16, 2021.”

5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this First Amendment to Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20__, and CONSULTANT has caused this First Amendment to Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

TWINING, INC., a
California corporation

BY: _____
DOMINICK CASEY
City Manager

BY:  _____
its: Vice President

ATTEST:

and

BY: _____
SONIA OROZCO
City Clerk

BY:  _____
its: Secretary

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY:  _____
JASON SHYKOWSKI
Public Works Director



COUNCIL COMMUNICATION

CC #: 0731
File #: 0320-01

Title: Resolution Declaring Weeds and Rubbish a Public Nuisance - Setting a Public Hearing Date
Contact: Jason Rizzi 916-774-5802 jrizzi@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.25.

RECOMMENDATION TO COUNCIL

To initiate the 2020 Weed Abatement Program staff recommends Council approval of the attached resolution declaring weeds, rubbish, dirt, and/or rank growth within the City of Roseville on the parcels identified on the attached list, (based on available City of Roseville GIS data at the time of report) to be a public nuisance, as well as ordering the Fire Chief to give notice of the passage and setting a time and place for the required public hearing. The public hearing will be scheduled for the City Council meeting on Wednesday, June 3, 2020.

BACKGROUND

The Fire Department manages a very proactive and effective annual Weed Abatement Program. Each year all vacant parcels are identified and property owners are notified of their obligation to maintain adequate fire breaks as a fire protection/prevention measure. The fire and life safety requirements for vegetation management are contained in the California Fire Code, which is enforced by the Roseville Fire Department. Property owners are given an opportunity to abate hazards that exist on their parcels. The City only conducts abatement activities on private parcels once the owner has failed to abate the hazard by a pre-determined date specified by the Fire Department. Abatement costs related to private properties are billed to the respective property owners. The notification, public hearing, and cost recovery processes are specified in Chapter 9.20 of the Roseville Municipal Code.

FISCAL IMPACT

Owners of private parcels that are abated by the City are responsible for the costs associated with providing abatement services. A bill is sent to each property owner detailing the abatement costs, as well as an administrative fee. If the property owner fails to pay the bill, the City places a lien on the subject property and the monies owed are reimbursed through the property tax collection process.

ENVIRONMENTAL REVIEW

The Weed Abatement Program involves minor alteration in the condition of the land, water, and/or vegetation and will not remove healthy, mature, scenic trees. This activity is categorically exempt from CEQA as a Class 4 Exemption (State CEQA Guidelines Section 15304). The Exemption has been prepared and no further CEQA action is required.

Respectfully Submitted,

Jason Rizzi, Division Chief / Fire Marshal

Rick Bartee, Fire Chief



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-125

Public Hearing Notice

2020 Weed Abatement Parcel List - Alpha

Sample Letter

RESOLUTION NO. 20-125

RESOLUTION OF THE COUNCIL OF THE CITY OF ROSEVILLE DECLARING ALL WEEDS, DIRT, RUBBISH OR RANK GROWTHS WITHIN THE CITY OF ROSEVILLE TO BE A PUBLIC NUISANCE; ORDERING THE FIRE CHIEF TO GIVE NOTICE OF THE PASSAGE OF THIS RESOLUTION; AND SETTING A TIME AND PLACE FOR HEARING ANY OBJECTIONS TO THE PROPOSED DESTRUCTION OR REMOVAL OF SUCH WEEDS, DIRT, RUBBISH, OR RANK GROWTHS.

Whereas, weeds, dirt, rubbish and rank growths are growing, located and existing on property within the City of Roseville and constitute a public nuisance, and

Whereas, it is the desire of the Council to cause the abatement of that nuisance by destruction or removal of such weeds, dirt, rubbish and rank growths;

Now, therefore, be it resolved by the City Council of the City of Roseville as follows:

That all weeds, dirt, rubbish and rank growths growing, located or existing on the property within the City of Roseville described by Placer County Assessor's parcel numbers in the "weed, dirt, rubbish and rank growths abatement list – FY 2019-20", a copy of which is on file in the office of the City Clerk, are hereby declared to be a public nuisance.

1. That the Fire Chief of the City of Roseville is hereby ordered to give notice of the passage of this resolution and required by law stating, among other things, that unless such nuisance be abated without delay of the destruction or removal of the weeds, dirt, rubbish and rank growths. The nuisance will be abated by the city authorities and the expenses thereof assessed upon the lots, parcels and lands from or on which such nuisance is abated.
2. That Wednesday, June 3, 2020 at 6:00 p.m. or as soon thereafter as the matter can be heard, in the Council Chambers in City Hall, 311 Vernon Street, Roseville, California, is hereby fixed as the time and place for hearing.
3. That the City Clerk is hereby directed to publish notice to destroy or remove those weeds, dirt, rubbish or rank growths declared therein to be a public nuisance at least twice in a newspaper published and circulated in the City of Roseville. The first publication of which shall be at least (10) ten days prior to the time fixed herein by this Council for hearing objections.

PASSED AND ADOPTED by the Council of the City of Roseville this_____day of
_____, 20____, by the following vote on roll call:

AYES: COUNCILMEMBERS:

NOES: COUNCILMEMBERS:

ABSENT: COUNCILMEMBERS:

MAYOR

ATTEST:

CITY CLERK

NOTICE

Public Notice is hereby given that a public hearing will be held before the City Council of the City of Roseville for the purpose of considering the following:

WEED ABATEMENT HEARING

On May 6, 2020 pursuant to the provisions of Chapter 9.20 of the Roseville Municipal Code, the City Council of the City of Roseville adopted Resolution No.20-____ declaring that all weeds as defined in Section 9.20.010 (C) (1) of said chapter and all dirt, rubbish and/or rank growth, as defined in Section 9.20.010 (C) (2,3,4) of said chapter, of any kind on private property, or in any street or alley abutting any property, constitute a public nuisance which must be abated by the destruction or removal thereof.

All property owners, lessees or occupants of buildings, grounds or lots shall, without delay, destroy or remove all such weeds, dirt, rubbish and/or rank growths from their property and half of the abutting street and alley, if any, between the lot lines, as extended, or such weeds, dirt, rubbish and/or rank growths will be destroyed or removed and such nuisance abated by the city authorities, in which case the cost of destruction or removal will be assessed upon the lots and lands from or on which, or abutting the streets and alleys from or on which, such nuisance was abated, and such costs will constitute a lien upon the lots or parcels until paid and will be collected on the next tax roll upon which municipal taxes are collected.

All property owners having objections to the proposed abatement of the nuisances are hereby notified to attend a meeting of the Council of the City of Roseville to be held on June 3, 2020, at 6:00 o'clock p.m., or as soon thereafter as may be heard, in the Civic Center Council Chambers, 311 Vernon Street, Roseville, CA, where and when all objections will be heard and given due consideration.

FIRE CHIEF OF THE CITY OF ROSEVILLE
RICK BARTEE

ROSEVILLE CITY COUNCIL
SONIA OROZCO CMC, CITY CLERK

DATED: May 6, 2020

PUBLISH: FRIDAY, May _____

Weed Abatement 2020 – List of Parcels

Address	APN	Address	APN
0 BONNY KNOLL RD	014-120-010-000	1224 LEO LN	496-440-024-000
0 KENROY LN	472-170-004-000	1225 LEO LN	496-440-017-000
1001 ROSEVILLE PW	363-030-064-000	1232 LEO LN	496-440-023-000
1004 CHURCH ST	012-171-030-000	1240 LEO LN	496-440-022-000
1007 DOUGLAS BL	013-192-036-000	1248 TAURUS LN	496-440-021-000
1008 CHURCH ST	012-171-029-000	1249 TAURUS LN	496-440-055-000
1012 CHURCH ST	012-171-013-000	1256 TAURUS LN	496-440-020-000
10150 FOOTHILLS BL	017-250-076-000	1257 TAURUS LN	496-440-056-000
1035 ROSEVILLE PW	363-011-090-000	1264 TAURUS LN	496-440-019-000
104 KEEHNER AV	014-113-047-000	1265 TAURUS LN	496-440-057-000
1041 SWALLOWTAIL DR	498-070-010-000	1273 TAURUS LN	496-440-058-000
1049 SWALLOWTAIL DR	498-070-009-000	1281 TAURUS LN	496-440-059-000
1055 AMINGTON DR	490-360-003-000	1289 MAKEWAY ST	492-350-064-000
10568 INDUSTRIAL AV	485-030-007-000	1289 TAURUS LN	496-430-001-000
10572 INDUSTRIAL AV	485-030-009-000	129 CHURCH ST	012-200-002-000
10612 INDUSTRIAL AV	485-030-008-000	1297 MAKEWAY ST	492-350-063-000
1064 SWALLOWTAIL DR	498-070-051-000	1297 TAURUS LN	496-430-002-000
1097 SWALLOWTAIL DR	498-070-004-000	130 MAIN ST	011-146-026-000
1099 ROSEVILLE PW	363-011-042-000	1305 TAURUS LN	496-430-003-000
1104 SWALLOWTAIL DR	498-070-087-000	1313 TAURUS LN	496-430-004-000
1105 SWALLOWTAIL DR	498-070-003-000	132 LOST OAK CT	456-160-021-000
1109 ROTHWELL LN	490-210-033-000	1321 TAURUS LN	496-430-005-000
111 WILLS RD	015-150-023-000	133 CHURCH ST	012-200-001-000
1110 CHURCH ST	012-185-024-000	1357 PIPER PL	482-431-044-000
1113 SWALLOWTAIL DR	498-070-002-000	141 BIRCH ST	012-144-005-000
1118 CHURCH ST	012-185-012-000	1430 COLONIAL PW W	468-130-055-000
1121 SWALLOWTAIL DR	498-070-001-000	1431 BLUE OAKS BL	481-260-014-000
113 ELM ST	012-172-020-000	1451 BLUE OAKS BL	481-260-013-000
1145 LEO LN	496-440-007-000	1475 BLUE OAKS BL	481-260-005-000
115 FIG ST	012-171-022-000	1485 BLUE OAKS BL	481-260-031-000
1153 LEO LN	496-440-008-000	1491 BLUE OAKS BL	481-260-026-000
116 LOST OAK CT	456-160-023-000	1495 BLUE OAKS BL	481-260-001-000
1161 LEO LN	496-440-009-000	1513 EUREKA RD	048-013-013-000
1169 LEO LN	496-440-010-000	1521 EUREKA RD	048-013-014-000
117 IVY ST	012-183-008-000	1600 DOUGLAS BL	014-450-053-000
1177 LEO LN	496-440-011-000	1612 KIT CARSON WY	048-350-021-000
1185 LEO LN	496-440-012-000	1614 KIT CARSON WY	048-350-015-000
1193 LEO LN	496-440-013-000	1616 KIT CARSON WY	048-350-016-000
120 DIAMOND CREEK PL	482-420-002-000	1618 KIT CARSON WY	048-350-018-000
1201 LEO LN	496-440-014-000	1629 ESKATON LP	482-380-089-000
1206 MEADOW LN	469-200-026-000	173 LOST OAK CT	456-160-014-000
1207 SAMOA WY	469-130-026-000	1741 PARK OAK DR	456-160-025-000
1209 LEO LN	496-440-015-000	1812 PARK OAK DR	456-170-018-000
121 WILLS RD	015-150-002-000	1828 CIRBY WY S	469-280-009-000
1217 LEO LN	496-440-016-000	1876 OAK CREST DR	456-190-014-000
1220 MELODY LN	472-330-052-000	1887 BALBOA DR	469-100-046-000

2009 METALMARK ST	498-070-071-000	308 YORKTOWN CT	498-060-020-000
2017 METALMARK ST	498-070-070-000	3081 ADELAIDE LP	403-010-020-000
2025 METALMARK ST	498-070-069-000	3088 ADELAIDE LP	403-010-001-000
2033 MALIBU PL	475-100-010-000	3089 ADELAIDE LP	403-010-019-000
2033 METALMARK ST	498-070-068-000	309 YORKTOWN CT	498-060-017-000
204 PAUL CT	015-360-026-000	3096 ADELAIDE LP	403-010-002-000
2041 METALMARK ST	498-070-067-000	3097 ADELAIDE LP	403-010-018-000
2049 METALMARK ST	498-070-066-000	3098 FERDINAND DR	455-300-073-000
205 IVY ST W	012-183-006-000	3099 FERDINAND DR	455-300-074-000
2064 LANESBOROUGH ST	492-370-050-000	3104 ADELAIDE LP	403-010-003-000
2065 LANESBOROUGH ST	492-370-067-000	3105 ADELAIDE LP	403-010-017-000
2088 HERITAGE DR	363-120-021-000	3112 ADELAIDE LP	403-010-004-000
2101 MARCH RD	473-100-022-000	3113 ADELAIDE LP	403-010-016-000
2101 WHARTON LN	490-360-002-000	3120 ADELAIDE LP	403-010-005-000
2111 MARCH RD	473-100-014-000	3120 YORKTOWN DR	498-050-025-000
213 FIG ST	012-162-009-000	3121 ADELAIDE LP	403-010-015-000
2209 SYMPHONY AV	496-420-052-000	3128 ADELAIDE LP	403-010-006-000
2217 SYMPHONY AV	496-420-053-000	3128 CONCORD VIEW WY	498-050-024-000
242 GIBSON DR	361-230-005-000	3129 ADELAIDE LP	403-010-014-000
246 FIG ST	012-134-031-000	3136 ADELAIDE LP	403-010-007-000
246 GIBSON DR	361-230-004-000	3136 CONCORD VIEW WY	498-050-023-000
250 CONFERENCE CENTER DR	363-011-013-000	3144 ADELAIDE LP	403-010-008-000
250 GIBSON DR	361-230-003-000	3144 CONCORD VIEW WY	498-050-022-000
251 CONFERENCE CENTER DR	363-011-014-000	3152 CONCORD VIEW WY	498-050-021-000
2667 STOCKWOOD DR	468-210-041-000	316 YORKTOWN CT	498-060-019-000
2700 VISTA GRANDE BL	499-010-009-000	3161 CONCORD VIEW WY	498-050-005-000
300 WASHINGTON BL	011-145-008-000	3169 ADELAIDE LP	403-010-009-000
300 YORKTOWN CT	498-060-021-000	3169 CONCORD VIEW WY	498-050-006-000
3000 COMPASS LN	496-460-044-000	317 YORKTOWN CT	498-060-018-000
3001 COMPASS LN	496-460-049-000	319 RIVERSIDE AV	014-141-014-000
3008 COMPASS LN	496-460-045-000	3250 PLEASANT GROVE BL	496-100-029-000
3009 COMPASS LN	496-460-048-000	3301 PLEASANT GROVE BL	496-100-030-000
301 YORKTOWN CT	498-060-016-000	331 ALTA VISTA AV	011-172-007-000
3016 COMPASS LN	496-460-046-000	3380 PLEASANT GROVE BL	496-100-027-000
3017 COMPASS LN	496-460-047-000	350 6TH ST	014-051-017-000
3024 COMPASS LN	496-450-010-000	350 ROSEVILLE PW	481-260-025-000
3025 COMPASS LN	496-450-023-000	3801 EARL RUSH DR	498-020-017-000
3032 COMPASS LN	496-450-011-000	400 LINCOLN ST	011-147-011-000
3033 COMPASS LN	496-450-022-000	4001 AFTERLIGHT LN	496-360-026-000
3040 COMPASS LN	496-450-012-000	4008 GOSSAMER ST	498-070-060-000
3041 COMPASS LN	496-450-021-000	4009 AFTERLIGHT LN	496-360-025-000
3048 COMPASS LN	496-450-013-000	4009 FALMOUTH WY	492-370-002-000
3049 COMPASS LN	496-450-020-000	4016 GOSSAMER ST	498-070-061-000
3051 EARL RUSH DR	498-020-010-000	4017 AFTERLIGHT LN	496-360-024-000
3056 COMPASS LN	496-450-014-000	4017 FALMOUTH WY	492-370-003-000
3057 COMPASS LN	496-450-019-000	4024 GOSSAMER ST	498-070-062-000
3064 COMPASS LN	496-450-015-000	4025 AFTERLIGHT LN	496-360-023-000
3065 COMPASS LN	496-450-018-000	4025 FALMOUTH WY	492-370-004-000
3072 COMPASS LN	496-450-016-000	4032 GOSSAMER ST	498-070-063-000
3073 ADELAIDE LP	403-010-021-000	4033 AFTERLIGHT LN	496-360-022-000
3073 COMPASS LN	496-450-017-000	4033 FALMOUTH WY	492-370-005-000

404 RIVERSIDE AV	014-033-029-000	4137 FALMOUTH WY	492-370-018-000
4040 GOSSAMER ST	498-070-064-000	414 6TH ST	014-062-018-000
4041 AFTERLIGHT LN	496-360-021-000	4144 AFTERLIGHT LN	496-360-039-000
4041 FALMOUTH WY	492-370-006-000	4144 FALMOUTH WY	492-370-043-000
4048 AFTERLIGHT LN	496-360-027-000	4145 AFTERLIGHT LN	496-360-008-000
4049 AFTERLIGHT LN	496-360-020-000	4145 FALMOUTH WY	492-370-019-000
4049 FALMOUTH WY	492-370-007-000	4152 FALMOUTH WY	492-370-042-000
4049 SUNGATE LN	496-460-039-000	4153 FALMOUTH WY	492-370-020-000
405 CHURCH ST	012-152-011-000	416 LINCOLN ST	011-147-008-000
4056 AFTERLIGHT LN	496-360-028-000	4160 FALMOUTH WY	492-370-041-000
4057 AFTERLIGHT LN	496-360-019-000	4161 FALMOUTH WY	492-370-021-000
4057 FALMOUTH WY	492-370-008-000	420 CLINTON AV	014-251-019-000
4057 SUNGATE LN	496-460-038-000	420 LINCOLN ST	011-147-007-000
4064 AFTERLIGHT LN	496-360-029-000	4200 THRIVE DR	363-022-021-000
4065 AFTERLIGHT LN	496-360-018-000	4252 CRAWFORD PW	492-370-029-000
4065 FALMOUTH WY	492-370-009-000	4260 CRAWFORD PW	492-370-030-000
4065 SUNGATE LN	496-460-037-000	4268 CRAWFORD PW	492-370-031-000
4072 AFTERLIGHT LN	496-360-030-000	4276 CRAWFORD PW	492-370-032-000
4073 FALMOUTH WY	492-370-010-000	4284 CRAWFORD PW	492-370-033-000
4073 SUNGATE LN	496-460-036-000	4292 CRAWFORD PW	492-360-031-000
408 EARL AV	014-252-003-000	4300 CRAWFORD PW	492-360-030-000
4080 AFTERLIGHT LN	496-360-031-000	4308 CRAWFORD PW	492-360-029-000
4080 FALMOUTH WY	492-370-049-000	4316 CRAWFORD PW	492-360-028-000
4081 AFTERLIGHT LN	496-360-016-000	4324 CRAWFORD PW	492-360-027-000
4081 FALMOUTH WY	492-370-011-000	4332 CRAWFORD PW	492-360-026-000
4081 SUNGATE LN	496-460-035-000	435 RIVERSIDE AV	014-251-015-000
4088 AFTERLIGHT LN	496-360-032-000	4393 SOLAIRE DR	496-390-007-000
4089 AFTERLIGHT LN	496-360-015-000	444 ROSEVILLE RD	472-070-015-000
4089 FALMOUTH WY	492-370-012-000	450 DIAMOND OAKS RD	015-360-022-000
4096 AFTERLIGHT LN	496-360-033-000	4501 WESTPARK DR	017-101-027-000
4096 FALMOUTH WY	492-370-048-000	4601 WESTPARK DR	017-101-026-000
4097 AFTERLIGHT LN	496-360-014-000	470 FIR AV	472-060-015-000
4097 FALMOUTH WY	492-370-013-000	478 FIR AV	472-050-008-000
4104 AFTERLIGHT LN	496-360-034-000	500 DEREK PL	015-350-005-000
4104 FALMOUTH WY	492-370-047-000	5000 BASELINE RD	498-010-020-000
4105 AFTERLIGHT LN	496-360-013-000	5008 CREEKHOLLOW WY	498-040-028-000
4105 FALMOUTH WY	492-370-014-000	5009 ROCKY MOUNTAIN WY	496-410-035-000
4112 AFTERLIGHT LN	496-360-035-000	5016 CREEKHOLLOW WY	498-040-029-000
4112 FALMOUTH WY	492-370-046-000	5017 ROCKY MOUNTAIN WY	496-410-034-000
4113 AFTERLIGHT LN	496-360-012-000	5024 CREEKHOLLOW WY	498-040-030-000
4113 FALMOUTH WY	492-370-015-000	5025 ROCKY MOUNTAIN WY	496-410-033-000
4120 AFTERLIGHT LN	496-360-036-000	5033 CREEKHOLLOW WY	498-040-018-000
4120 FALMOUTH WY	492-370-045-000	5033 ROCKY MOUNTAIN WY	496-410-032-000
4121 AFTERLIGHT LN	496-360-011-000	5041 CREEKHOLLOW WY	498-040-017-000
4121 FALMOUTH WY	492-370-016-000	5041 ROCKY MOUNTAIN WY	496-410-031-000
4128 AFTERLIGHT LN	496-360-037-000	5056 HEMISPHERE LN	496-450-027-000
4128 FALMOUTH WY	492-370-044-000	5057 HEMISPHERE LN	496-450-036-000
4129 AFTERLIGHT LN	496-360-010-000	5064 CHICO DR	403-030-041-000
4129 FALMOUTH WY	492-370-017-000	5064 HEMISPHERE LN	496-450-028-000
4136 AFTERLIGHT LN	496-360-038-000	5065 HEMISPHERE LN	496-450-035-000
4137 AFTERLIGHT LN	496-360-009-000	5072 CHICO DR	403-030-040-000

5072 HEMISPHERE LN	496-450-029-000	6065 ELEMENT LN	496-430-011-000
5073 HEMISPHERE LN	496-450-034-000	6073 ELEMENT LN	496-430-010-000
508 DOUGLAS BL	014-102-028-000	6080 WOODCREEK OAKS BL	481-270-022-000
5080 CHICO DR	403-030-039-000	6081 ELEMENT LN	496-430-009-000
5080 HEMISPHERE LN	496-450-030-000	6089 ELEMENT LN	496-430-008-000
5081 HEMISPHERE LN	496-450-033-000	6097 ELEMENT LN	496-430-007-000
5088 HEMISPHERE LN	496-450-031-000	6105 ELEMENT LN	496-430-006-000
5089 CHICO DR	403-030-001-000	6120 CAMPUS PW	481-270-004-000
5089 HEMISPHERE LN	496-450-032-000	620 OAK ST	013-152-019-000
5090 SUMMERFAIRE DR	402-050-005-000	6200 BASELINE RD	499-010-018-000
5097 CHICO DR	403-030-002-000	625 ALTA VISTA AV	011-181-006-000
510 ROSEVILLE PW	481-270-043-000	640 VOYAGER CT	496-440-034-000
5101 SUNSET BL W	017-020-033-000	6400 BASELINE RD	499-010-014-000
5105 CHICO DR	403-030-003-000	641 VOYAGER CT	496-440-031-000
5113 CHICO DR	403-030-004-000	648 VOYAGER CT	496-440-033-000
5121 CHICO DR	403-030-005-000	649 VOYAGER CT	496-440-032-000
5129 CHICO DR	403-030-006-000	6560 WOODCREEK OAKS BL	481-270-023-000
5137 CHICO DR	403-030-007-000	700 SALTERS CT	403-030-038-000
520 ROSEVILLE PW	481-270-011-000	700 UNIVERSAL CT	496-430-035-000
5200 BASELINE RD	498-010-019-000	7000 STARBURST LN	496-460-058-000
5217 ROCKY MOUNTAIN WY	496-400-042-000	7001 GALILEE RD	017-410-043-000
5220 PHILLIP RD	017-101-019-000	7001 STARBURST LN	496-460-004-000
5224 ROCKY MOUNTAIN WY	496-400-031-000	7008 STARBURST LN	496-460-059-000
5225 ROCKY MOUNTAIN WY	496-400-043-000	7009 CASTLE ROCK WY	496-230-027-000
5232 ROCKY MOUNTAIN WY	496-400-032-000	7009 STARBURST LN	496-460-003-000
5233 ROCKY MOUNTAIN WY	496-400-044-000	701 FALMOUTH CT	492-370-022-000
530 ROSEVILLE PW	481-270-012-000	701 SALTERS CT	403-030-031-000
5300 PHILLIP RD	017-101-018-000	701 UNIVERSAL CT	496-430-041-000
540 GIBSON DR	363-011-007-000	7016 STARBURST LN	496-460-060-000
5400 BASELINE RD	498-010-015-000	7017 STARBURST LN	496-460-002-000
5480 PHILLIP RD	017-101-017-000	7024 STARBURST LN	496-460-061-000
5480 PHILLIP RD	017-101-016-000	7025 STARBURST LN	496-460-001-000
550 ROSEVILLE PW	481-270-014-000	7032 STARBURST LN	496-450-040-000
556 GIBSON DR	363-011-005-000	7033 STARBURST LN	496-450-009-000
560 ROSEVILLE PW	481-270-016-000	7040 STARBURST LN	496-450-041-000
564 GIBSON DR	363-011-003-000	7041 STARBURST LN	496-450-008-000
570 ROSEVILLE PW	481-270-017-000	7048 STARBURST LN	496-450-042-000
572 GIBSON DR	363-011-004-000	7049 STARBURST LN	496-450-007-000
5730 PHILLIP RD	017-101-050-000	705 OAK ST	013-163-004-000
580 GIBSON DR	363-011-002-000	7056 STARBURST LN	496-450-043-000
5875 SUNSET BL W	017-020-037-000	7057 STARBURST LN	496-450-006-000
5900 BASELINE RD	499-010-032-000	7064 STARBURST LN	496-450-044-000
600 HARDING BL	015-140-007-000	7065 STARBURST LN	496-450-005-000
6001 ELEMENT LN	496-430-019-000	7072 STARBURST LN	496-450-045-000
6009 ELEMENT LN	496-430-018-000	7073 STARBURST LN	496-450-004-000
6017 ELEMENT LN	496-430-017-000	708 FALMOUTH CT	492-370-040-000
6025 ELEMENT LN	496-430-016-000	708 SALTERS CT	403-030-037-000
6033 ELEMENT LN	496-430-015-000	708 UNIVERSAL CT	496-430-036-000
6041 ELEMENT LN	496-430-014-000	7080 STARBURST LN	496-450-046-000
6049 ELEMENT LN	496-430-013-000	7081 ENCORE WY	496-420-011-000
6057 ELEMENT LN	496-430-012-000	7081 STARBURST LN	496-450-003-000

7088 STARBURST LN	496-450-047-000	7248 UNIVERSAL LN	496-430-028-000
7089 ENCORE WY	496-420-012-000	7249 ENCORE WY	496-420-077-000
7089 STARBURST LN	496-450-002-000	7249 UNIVERSAL LN	496-430-048-000
709 FALMOUTH CT	492-370-023-000	725 FALMOUTH CT	492-370-025-000
709 SALTERS CT	403-030-032-000	725 SALTERS CT	403-030-034-000
709 UNIVERSAL CT	496-430-040-000	725 UNIVERSAL CT	496-430-038-000
7096 STARBURST LN	496-450-048-000	7256 ENCORE WY	496-420-054-000
7097 ENCORE WY	496-420-013-000	7256 UNIVERSAL LN	496-430-029-000
7097 STARBURST LN	496-450-001-000	7257 ENCORE WY	496-420-078-000
7100 GALILEE RD	017-410-085-000	7257 UNIVERSAL LN	496-430-047-000
7104 STARBURST LN	496-450-049-000	7264 UNIVERSAL LN	496-430-030-000
7105 ENCORE WY	496-420-014-000	7265 ENCORE WY	496-420-079-000
7105 UNIVERSAL LN	496-430-065-000	7265 UNIVERSAL LN	496-430-046-000
711 OAK ST	013-163-003-000	7272 UNIVERSAL LN	496-430-031-000
7113 ENCORE WY	496-420-015-000	7273 ENCORE WY	496-420-080-000
7113 UNIVERSAL LN	496-430-064-000	7273 UNIVERSAL LN	496-430-045-000
7121 UNIVERSAL LN	496-430-063-000	7280 UNIVERSAL LN	496-430-032-000
7129 UNIVERSAL LN	496-430-062-000	7281 ENCORE WY	496-420-081-000
7137 UNIVERSAL LN	496-430-061-000	7281 UNIVERSAL LN	496-430-044-000
7145 UNIVERSAL LN	496-430-060-000	7288 UNIVERSAL LN	496-430-033-000
7153 UNIVERSAL LN	496-430-059-000	7289 UNIVERSAL LN	496-430-043-000
716 FALMOUTH CT	492-370-039-000	7296 UNIVERSAL LN	496-430-034-000
716 SALTERS CT	403-030-036-000	7297 UNIVERSAL LN	496-430-042-000
7161 UNIVERSAL LN	496-430-058-000	7300 GALILEE RD	017-410-020-000
7169 UNIVERSAL LN	496-430-057-000	732 FALMOUTH CT	492-370-027-000
717 FALMOUTH CT	492-370-024-000	733 FALMOUTH CT	492-370-026-000
717 SALTERS CT	403-030-033-000	7400 GALILEE RD	017-410-019-000
717 UNIVERSAL CT	496-430-039-000	7621 PAINTED DESERT DR	481-260-012-000
718 SUNRISE AV	471-220-021-000	7951 PAINTED DESERT DR	481-260-006-000
7184 UNIVERSAL LN	496-430-020-000	8025 INDUSTRIAL AV	017-410-068-000
7185 UNIVERSAL LN	496-430-056-000	8040 FORT COLLINS WY	496-230-028-000
7192 UNIVERSAL LN	496-430-021-000	812 MACHADO LN	472-210-033-000
7193 UNIVERSAL LN	496-430-055-000	8150 INDUSTRIAL AV	017-410-025-000
7200 UNIVERSAL LN	496-430-022-000	8150 INDUSTRIAL AV	017-410-024-000
7201 UNIVERSAL LN	496-430-054-000	8151 INDUSTRIAL AV	017-410-017-000
7208 UNIVERSAL LN	496-430-023-000	8300 INDUSTRIAL AV	360-070-002-000
7209 UNIVERSAL LN	496-430-053-000	8400 TRINIDAD WY	496-410-001-000
7216 UNIVERSAL LN	496-430-024-000	8401 TRINIDAD WY	496-410-012-000
7217 UNIVERSAL LN	496-430-052-000	8405 WASHINGTON BL	360-070-023-000
7224 UNIVERSAL LN	496-430-025-000	8408 TRINIDAD WY	496-410-002-000
7225 UNIVERSAL LN	496-430-051-000	8409 TRINIDAD WY	496-410-011-000
7232 UNIVERSAL LN	496-430-026-000	8409 WASHINGTON BL	360-070-019-000
7233 UNIVERSAL LN	496-430-050-000	8416 TRINIDAD WY	496-410-003-000
724 FALMOUTH CT	492-370-028-000	8417 TRINIDAD WY	496-410-010-000
724 SALTERS CT	403-030-035-000	8425 TRINIDAD WY	496-410-009-000
724 UNIVERSAL CT	496-430-037-000	8425 WASHINGTON BL	360-070-022-000
7240 ENCORE WY	496-420-056-000	8429 WASHINGTON BL	360-070-017-000
7240 UNIVERSAL LN	496-430-027-000	8432 TRINIDAD WY	496-410-004-000
7241 ENCORE WY	496-420-076-000	8433 TRINIDAD WY	496-410-008-000
7241 UNIVERSAL LN	496-430-049-000	8433 WASHINGTON BL	360-070-021-000
7248 ENCORE WY	496-420-055-000	8437 WASHINGTON BL	360-070-016-000

8440 TRINIDAD WY	496-410-005-000	9273 SIERRA COLLEGE BL	466-190-031-000
8441 TRINIDAD WY	496-410-007-000	9277 SIERRA COLLEGE BL	466-190-030-000
8441 WASHINGTON BL	360-070-020-000		
8445 WASHINGTON BL	360-070-014-000		
8448 TRINIDAD WY	496-410-006-000		
8449 TRINIDAD WY	496-400-020-000		
8449 WASHINGTON BL	360-070-015-000		
845 LINCOLN ST	011-063-005-000		
8453 WASHINGTON BL	360-070-013-000		
8456 TRINIDAD WY	496-400-001-000		
8457 TRINIDAD WY	496-400-019-000		
8457 WASHINGTON BL	360-070-008-000		
8464 TRINIDAD WY	496-400-002-000		
8465 TRINIDAD WY	496-400-018-000		
8465 WASHINGTON BL	360-070-007-000		
8469 WASHINGTON BL	360-070-006-000		
8472 TRINIDAD WY	496-400-003-000		
8473 TRINIDAD WY	496-400-017-000		
8473 WASHINGTON BL	360-070-005-000		
8477 WASHINGTON BL	360-070-004-000		
8480 TRINIDAD WY	496-400-004-000		
8481 TRINIDAD WY	496-400-016-000		
8481 WASHINGTON BL	360-070-012-000		
8485 WASHINGTON BL	360-070-011-000		
8488 TRINIDAD WY	496-400-005-000		
8489 TRINIDAD WY	496-400-015-000		
8497 TRINIDAD WY	496-400-014-000		
8504 TRINIDAD WY	496-400-006-000		
8505 TRINIDAD WY	496-400-013-000		
8512 TRINIDAD WY	496-400-007-000		
8513 TRINIDAD WY	496-400-012-000		
8520 TRINIDAD WY	496-400-008-000		
8521 TRINIDAD WY	496-400-011-000		
8528 TRINIDAD WY	496-400-009-000		
8529 TRINIDAD WY	496-400-010-000		
87 PARRY ST	013-022-033-000		
8801 FOOTHILLS BL	017-232-007-000		
8830 CRIMSON RIDGE WY	481-260-024-000		
8901 FOOTHILLS BL	017-232-006-000		
9014 WOODCREEK OAKS BL	481-260-007-000		
9016 QUARTET AV	496-420-040-000		
9025 ROYAL GORGE LP	496-400-045-000		
9030 WOODCREEK OAKS BL	481-260-029-000		
9033 ROYAL GORGE LP	496-400-046-000		
9041 ROYAL GORGE LP	496-400-047-000		
9049 ROYAL GORGE LP	496-400-048-000		
906 DOUGLAS BL	014-113-049-000		
919 OAK RIDGE DR	470-050-008-000		
923 LAWTON AV	015-080-045-000		
9233 SIERRA COLLEGE BL	466-190-025-000		
9237 SIERRA COLLEGE BL	466-190-026-000		



Fire Department
316 Vernon St, Suite 480
Roseville, CA 95678-2618

June 5, 2020

Owner Name: «OWNER1»
Owner Address: «OwnAdr1»
«OwnAdr2»

NOTICE TO ABATE FIRE HAZARD

This letter is intended for parcels that are undeveloped. If the property has been developed or sold, please disregard the following and complete the information on the following page(s) and return it to the Roseville Fire Department, 316 Vernon Street, Suite 480, Roseville, CA 95678.

This letter is to notify you that a fire hazard may exist on the undeveloped parcel(s) listed on the following page(s). The law requires that all cut or uncut weeds, grass, vines, vegetation, or other combustible materials be removed when determined to be a fire hazard. Roseville Fire Code (RFC) 304.1.3; H&S Code, Division 12, Part 5.

*If applicable, all necessary work shall be completed no later than **July __, 2020**. If the property owner does not comply with this notice, the required firebreaks will be made by the City of Roseville. All costs incurred by the City, including a **\$308.00** per parcel administration fee, shall be billed directly to the property owner.*

WEED ABATEMENT GUIDELINES

A clear firebreak of a minimum 30-foot width shall be created and maintained in all areas designated by the City of Roseville. Clear firebreaks shall be provided around all combustible buildings, fences, vehicles, structures, or storage on this parcel or on adjacent properties. We ask that you adhere to the following abatement requirements:

- 1. The preferred method of weed abatement shall be accomplished by discing and completed so that all weeds, grass, other vegetation or organic material which can be expected to burn are completely removed or turned under so there is insufficient fuel to sustain or allow the spread of fire.*
 - Discing does not negate the requirement for weed removal up to the structure.*
- 2. Where discing is not practical, mowing is permitted where the material is mulched and the remaining weeds do not exceed two inches in height.*
- 3. Spark arrestors shall be installed on all outdoor equipment with internal combustion engines.*
- 4. Parcels that are one acre or less shall be completely abated.*

Prior to abating weeds, seasonal rains should be considered. Late rains will produce late growing weeds. Weeds once mowed, may require additional mowing. The weed abatement program's intent is to reduce the fire hazard during fire season.

Our Mission... Protect and enhance the safety and well being of residents, businesses, customers and partners
We will accomplish this by... Delivering exceptional service and compassionate solutions as a cohesive team with dedication, pride and vigilance.



COUNCIL COMMUNICATION

CC #: 0727

File #: 0400-04-07-1

Title: Diamond Creek North Roseville Specific Plan DC 30 & 33 Improvement Plan - Notice of Completion

Contact: Darin Crockett 916-746-1324 dcrockett@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.26.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council adopt the attached resolution accepting Diamond Creek North Roseville Specific Plan (NRSP) DC 30 & 33, CWJ#190257, as complete and authorizing the City Engineer to execute the Notice of Completion.

BACKGROUND

The Engineering division has made a final inspection of the subject project and has found the subdivision infrastructure work complete in accordance with the improvement plans and City specifications.

FISCAL IMPACT

The actions requested as part of this action have no impact to the City's General Fund. Construction costs were paid by the developer.

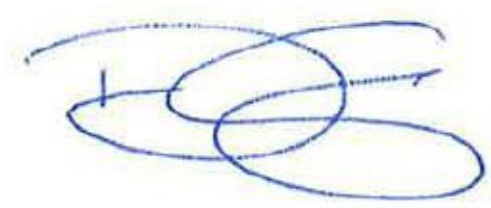
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment (CEQA Guidelines 15061(b)(3)). Accepting the Notice of Completion for the Diamond Creek NRSP DC 30 & 33 project does not include the potential for a significant environmental effect and therefore is not subject to CEQA.

Respectfully Submitted,

Darin Crockett, Construction Inspector

Mike Isom, Development Services Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-122

Notice Of Completion

Exhibit A

RESOLUTION NO. 20-122

RESOLUTION OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS Diamond Creek NRSP DC 30&33 PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION.

BE IT RESOLVED by the Council of the City of Roseville as follows:

1. The "Notice of Completion" on file in the City Clerk's Department relative to that public work known as the Diamond Creek NRSP DC 30&33 is hereby approved and the public work accepted.
2. All rights of way and easements as offered on the final map of recorded with Placer County Recorder's Office Book EE of Maps, Page 82 is hereby accepted.
3. The City Engineer is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville, this _____ day of _____, 2019, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

CITY CLERK

RECORDING REQUESTED BY AND WHEN
RECORDED MAIL TO:

CITY CLERK
CITY OF ROSEVILLE
311 VERNON STREET
ROSEVILLE, CA 95678

Exempt from recording fees
Pursuant to Gov't Code §27383

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work of improvement known as the
Diamond Creek NRSP DC 30&33 Project was completed and
accepted by the City of Roseville on _____. The location is
situated in the City of Roseville, County of Placer, State of California and is indicated on the
attached map, marked as Exhibit "A" and incorporated herein by this reference. The real
property herein described is owned by the City of Roseville, 311 Vernon Street, Roseville CA
95678.

The direct/general contractor on said project was JD Pasquetti Engineering.

The surety on said project was Developers Surety and Indemnity Company
Developers Surety and Indemnity Company.

Marc Stout
City Engineer
City of Roseville
Owner

ATTEST:

Sonia Orozco, City Clerk

State of California)
County of Placer)

I, Marc Stout, being first duly sworn, depose and say: I am the City Engineer of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Notice of Completion and know its contents and the facts stated therein are true.

Marc Stout

City Engineer
City of Roseville

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.
--

State of California)
County of Placer)

Subscribed and sworn to (or affirmed) before me on this ____ day of _____, 20____, Marc Stout

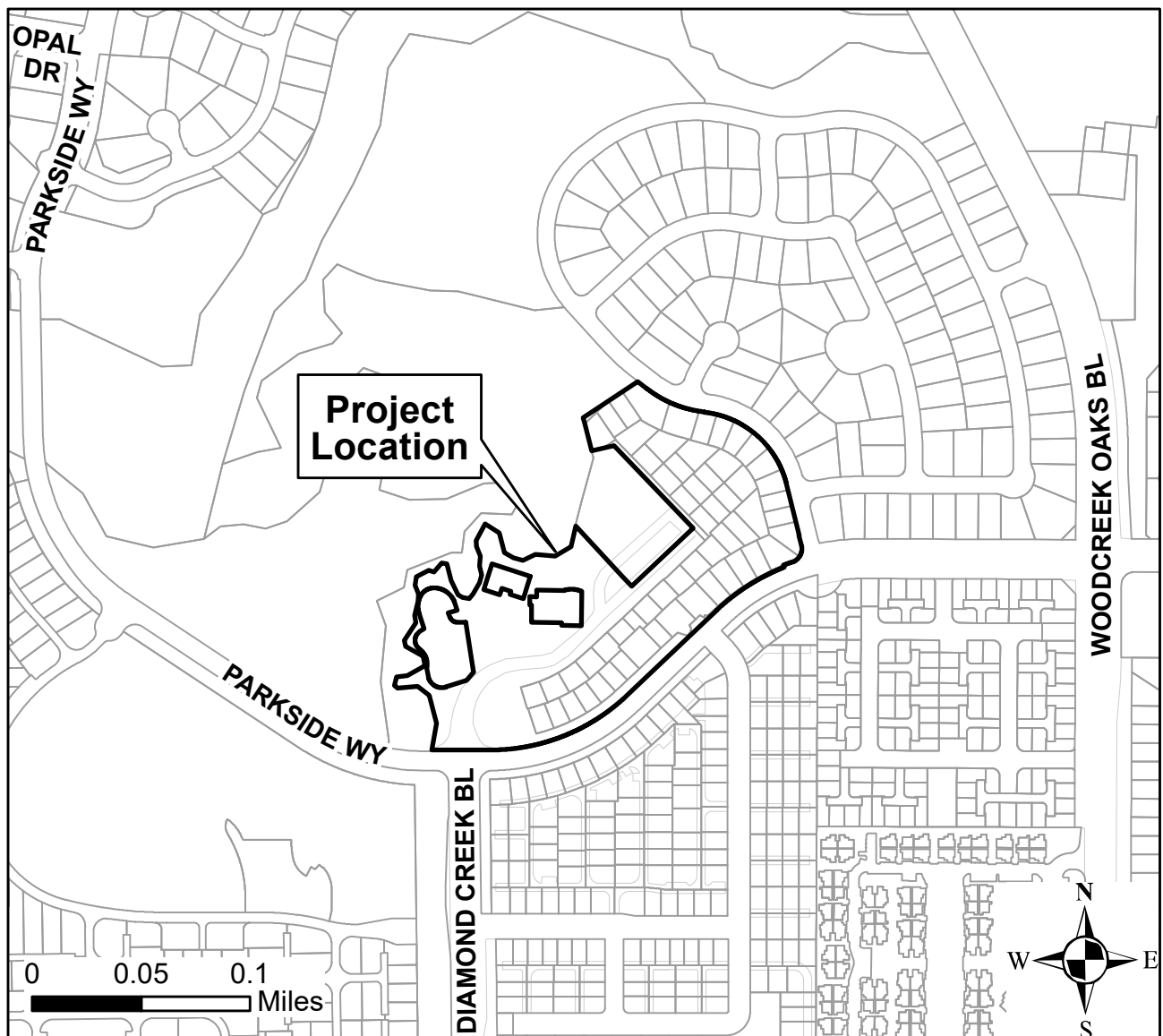
proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Place Notary Seal and/or Stamp Above

Signature of Notary Public

EXHIBIT A

City of Roseville Diamond Creek NRSP Parcel DC 30 & 33





COUNCIL COMMUNICATION

CC #: 0729

File #: 0900-02-02-1

Title: Dry Creek Wastewater Treatment Plant Cogeneration and Nitrate Reduction Improvements Project - Notice of Completion

Contact: Todd Jordan 916-746-1829 tjordan@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.27.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council accept the Dry Creek Wastewater Treatment Plant Cogeneration and Nitrate Reduction Improvements Project as complete and authorize the Environmental Utilities Director to execute the Notice of Completion.

BACKGROUND

On January 10, 2018, the City Council awarded a construction contract to Auburn Constructors, Incorporated for construction of the Dry Creek Wastewater Treatment Plant Cogeneration and Nitrate Reduction Improvements Project in the amount of \$18,420,300.

Construction was completed for a total cost of \$19,065,903. This cost includes \$645,603 in change orders, approximately 3.5% of the awarded project amount. This is less than the Council approved change order authority of \$2,325,019.

The Cogeneration project provides the plant the ability to convert digester gas to electricity for plant usage, which increased the treatment process energy efficiencies and reduced air emissions. The Nitrate Reduction Improvements Project included improvements that provide the ability for the plant to consistently meet the new final effluent nitrate plus nitrite limits.

FISCAL IMPACT

The original contract amount was \$18,420,300. The total change order amount was \$645,603. The total contract amount of \$19,065,903 was paid from the Dry Creek Wastewater Treatment Plant cogeneration and Nitrate Reduction Improvements Project budget.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in

a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. The Notice of Completion meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Todd Jordan, Process Engineer

Richard Plecker, Environmental Utilities Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-124

Notice Of Completion

Vicinity Map

RESOLUTION NO. 20-124

ACCEPTING THE PUBLIC WORK KNOWN AS THE DRY CREEK WASTEWATER TREATMENT PLANT COGENERATION AND NITRATE REDUCTION IMPROVEMENTS PROJECT, APPROVING THE “NOTICE OF COMPLETION”, AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE

BE IT RESOLVED by the City Council of the City of Roseville as follows:

1. The “Notice of Completion” on file in the City Clerk’s Department relative to that public work known as the Dry Creek Wastewater Treatment Plant Cogeneration and Nitrate Reduction Improvements Project, has been approved and the public work accepted.
2. The Environmental Utilities Director is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this _____ day of _____, 20_____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

RECORDING REQUESTED BY AND WHEN
RECORDED MAIL TO:

CITY CLERK
CITY OF ROSEVILLE
311 VERNON STREET
ROSEVILLE, CA 95678

Exempt from recording fees
Pursuant to Gov't Code §27383

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work of improvement known as the
Dry Creek Wastewater Treatment Plant Cogeneration and Nitrate Reduction Improvements Project was completed and
accepted by the City of Roseville on _____. The location is
situated in the City of Roseville, County of Placer, State of California and is indicated on the
attached map, marked as Exhibit "A" and incorporated herein by this reference. The real
property herein described is owned by the City of Roseville, 311 Vernon Street, Roseville CA
95678.

The direct/general contractor on said project was Auburn Constructors, Incorporated.

The surety on said project was Travelers Casualty and Surety Company of America

RICHARD D. PLECKER
Environmental Utilities Director
City of Roseville
Owner

ATTEST:

Sonia Orozco, City Clerk

State of California)
County of Placer)

I, RICHARD D. PLECKER, being first duly sworn, depose and say: I am the Environmental Utilities Director of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Notice of Completion and know its contents and the facts stated therein are true.

RICHARD D. PLECKER
Environmental Utilities Director
City of Roseville

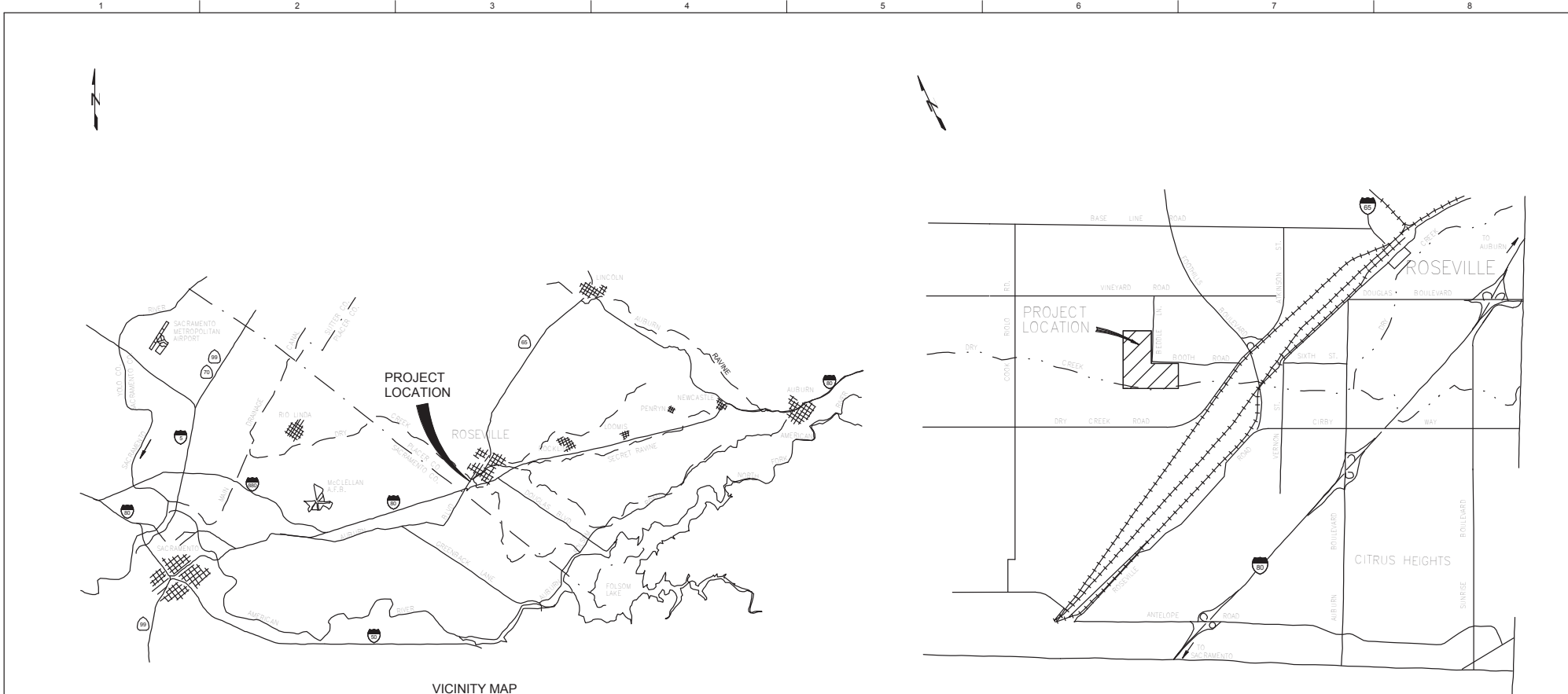
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.
--

State of California)
County of Placer)

Subscribed and sworn to (or affirmed) before
me on this ____ day of _____,
20____, RICHARD D. PLECKER
proved to me on the basis of satisfactory
evidence to be the person(s) who appeared
before me.

Place Notary Seal and/or Stamp Above

Signature of Notary Public



VICINITY MAP

LOCATION MAP

DRY CREEK WASTEWATER TREATMENT PLANT ADDRESS:
1800 BOOTH ROAD
ROSEVILLE, CA 95747

Brown and Caldwell

USE OF DOCUMENTS

THIS DOCUMENT, INCLUDING THE INCORPORATED DESIGNS, IS AN INSTRUMENT OF SERVICE FOR THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF BROWN AND CALDWELL, INC.

NO.	REVISION	DATE	BY

SCALE
LINE IS 1 INCH
IF THIS BAR IS NOT
DIMENSION SHOWN,
ADJUST SCALES
ACCORDINGLY



DESIGNED:
C. CASEY
DRAWN:
F. BURKE
CHECKED:
D. GELLERMAN
APPROVED:
M. HARRISON



DRY CREEK WASTEWATER TREATMENT PLANT
NITRATE REDUCTION IMPROVEMENTS PROJECT

VICINITY AND LOCATION MAP

GENERAL

FILENAME
150334_20_G_R17
PROJECT NUMBER
150334
FACILITY DESIGNATION
DC
SHEET NUMBER
00-G-001



COUNCIL COMMUNICATION

CC #: 0728

File #: 0900-02 & 0201-01

Title: Downtown Water Mains Replacement Project – Hillcrest Neighborhood - Professional Design Services Agreement and Budget Adjustment

Contact: Janice R. Gainey 916-774-5535 jrgainey@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.28.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council:

- 1) Approve a professional design services agreement for the Downtown Water Mains Replacement Project-Hillcrest with Domenichelli & Associates, Inc. and adopt a resolution authorizing the City Manager to execute it; and
- 2) Adopt an ordinance to approve a budget adjustment to transfer the remaining project budget of \$1,533,248 from an operating account in the Water Rehabilitation Fund to a newly established Capital Improvement Project (CIP). There is no increase in appropriations nor a net change to the available resources in the Water Rehabilitation Fund.

BACKGROUND

An analysis of flow capacity limitations, review of maintenance history, and age of the water distribution pipelines in the Roseville downtown area identified the need for mainline replacements and upsizing of fire hydrants in the Hillcrest neighborhood. This project area is bounded by I-80 on the West, Douglas Blvd. on the North, Marietti Way on the East, and Vine Avenue on the South.

The Public Works Department (PWD) had planned for resurfacing and repair of roadways in this neighborhood in the Summer of 2020. In a coordinated effort between Public Works and Environmental Utilities (EU), to ensure that the underground improvements are completed, prior to the above ground PWD improvements being installed, and to help reduce disruptions within the neighborhood, the water pipeline replacements and roadwork will be combined under one construction contract to be completed in the Summer of 2021. Staff will return to the City Council with a request to award that construction contract sometime in fall 2020.

This professional design service agreement will design engineering support for the consultant to work with EU staff to design the new alignment of the water mains and locations of hydrants, as well as developing plans and specifications for construction, and supporting the construction

oversight efforts.

This project supports the City's Strategic Plan Goal F - Invest in Well-Planned Infrastructure and Growth by reinvesting in aging infrastructure.

FISCAL IMPACT

Funding for this effort is already included in the Water Rehabilitation Fund. The recommended budget adjustment transfers the remaining budget from an operating budget to a newly created CIP in order to facilitate expense tracking in the City's financial system. There is no appropriation increase and no impact to the available resources in the Water Rehabilitation Fund.

ENVIRONMENTAL REVIEW

Approval of the professional design services agreement and adoption of the ordinance approving the proposed budget adjustment are not subject to CEQA, as it applies only to projects which have the potential to cause a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. (CEQA Guidelines §15061(b)(3).

The proposed Water Mains Replacement project involves the maintenance and replacement of existing structures and facilities. This activity is categorically exempt from CEQA as a Class 2 Exemption (State CEQA Guidelines Section 15302). The Exemption has been prepared and no further CEQA action is required.

Respectfully Submitted,

Janice R. Gainey, Senior Engineer

Richard D. Plecker, Environmental Utilities Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 20-123

Professional Design Services Agreement

Ordinance No. 6214

Downtown Mains Budget Adjustment

RESOLUTION NO. 20-123

APPROVING A PROFESSIONAL DESIGN SERVICES AGREEMENT BY AND BETWEEN
THE CITY OF ROSEVILLE AND DOMENICHELLI & ASSOCIATES, INC., AND
AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF
THE CITY OF ROSEVILLE

WHEREAS, a professional design services agreement regarding the Downtown Water Mains Replacement Project in the Hillcrest Neighborhood, by and between the City of Roseville and Domenichelli & Associates, Inc., has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said agreement is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 2020, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

PROFESSIONAL DESIGN SERVICES AGREEMENT

Downtown Water Mains Replacement Project

THIS AGREEMENT is made and entered into this ____ day of _____, 20__,
by and between the City of Roseville, a municipal corporation ("CITY"), and Domenichelli &
Associates, Inc., a California corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY desires professional design services consisting of replacement of the
downtown water mains – Hillcrest neighborhood; and

WHEREAS, CONSULTANT has prepared a proposal dated April 3, 2020, which
describes the scope of work to be performed by CONSULTANT, the budget for the work, and
the schedule for performance of the work; and

WHEREAS, CONSULTANT is qualified and experienced to provide such professional
design services.

NOW, THEREFORE, the parties agree as follows:

1. Services. CONSULTANT shall perform, at the direction of CITY, the scope of
services as described in EXHIBIT "A," attached hereto and incorporated herein by this
reference.
2. Compensation. For its services provided hereunder, CONSULTANT shall be
compensated on a time and expense basis in accordance with the budget estimate as described in

EXHIBIT "B," attached hereto and incorporated herein by this reference. Total compensation shall not exceed three hundred seventy-seven thousand and eighty-four dollars (\$377,084).

CONSULTANT shall submit monthly invoices for its services. Such invoices shall be delineated by task, the person performing the services, and the hourly rate, which shall be stated in time increments of not greater than one-tenth (1/10) hours. CITY shall pay invoices within thirty (30) days after receipt, if the services specified in the invoice have been satisfactorily completed.

3. Indemnification. To the fullest extent allowed by law, CONSULTANT agrees to indemnify, including the cost to defend CITY, and its officers, agents, employees and volunteers from any and all claims, demands, costs or liability that arise out of, or pertain to, or relate to the negligence, recklessness, or willful misconduct of CONSULTANT and its agents in the performance of services under this contract, but this indemnity does not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss, arising from the sole negligence, willful misconduct or defects in design by CITY or the agents, servants, or independent contractors who are directly responsible to CITY, or arising from the active negligence of CITY. Notwithstanding any terms of this section, indemnification and defense obligations shall conform to California Civil Code Section 2782.8.

CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.

CONSULTANT's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by

law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.

4. Insurance. CONSULTANT agrees to continuously maintain, in full force and effect, the following minimum policies of insurance during the term of this Agreement.

<u>COVERAGE</u>	<u>LIMITS OF LIABILITY</u>
Workers' Compensation	Statutory
Commercial General Liability	\$2,000,000 each occurrence \$4,000,000 aggregate Personal Injury: \$2,000,000 each occurrence \$4,000,000 aggregate
Automobile Liability	\$1,000,000 combined single limit
Professional Liability (errors and omissions)	\$2,000,000 per claim \$4,000,000 aggregate

a. Form. CONSULTANT shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney.

b. Additional Insureds. CONSULTANT shall also provide a separate endorsement form or section of the policy showing CITY, its officers, agents, employees and volunteers as additional insureds for each type of coverage, except for Workers' Compensation and Professional Liability. Such insurance shall specifically cover the contractual liability of CONSULTANT. The additional insured coverage under the CONSULTANT's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from CITY's insurance or self-insurance. In addition, the

additional insured coverage shall be at least as broad as the Insurance Services Office ("ISO") CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds.

Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.

c. Cancellation/Modification. CONSULTANT shall provide ten (10) days written notice to CITY prior to cancellation or modification of any insurance required by this Agreement.

d. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of CITY (if agreed to in a written contract) before CITY's own insurance shall be called upon to protect it as a named insured.

e. Subcontractors. CONSULTANT agrees to include in its contracts with all subcontractors the same requirements and provisions of this Agreement, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor's work. Furthermore, CONSULTANT shall require its subcontractors to agree to be bound to CONSULTANT and CITY in the same manner and to the same extent as CONSULTANT is bound to CITY under this Agreement. Additionally, CONSULTANT shall obligate its subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of CITY's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request.

f. Self-Insured Retentions. All self-insured retentions ("SIR") must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or CITY. CITY reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.

g. Waiver of Subrogation. CONSULTANT hereby agrees to waive subrogation which any insurer of CONSULTANT may acquire from CONSULTANT by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General Liability and Automobile Liability policies shall be endorsed with a waiver of subrogation in favor of CITY, its officers, agents, employees and volunteers for all work performed by CONSULTANT, its employees, agents and subcontractors.

h. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve CONSULTANT of liability in excess of such coverage, nor shall it preclude CITY from taking such other actions as are available to it under any other provisions of this Agreement or law.

5. Records. CONSULTANT and its subcontractors shall maintain all files and records relating to the services performed hereunder during the term of this Agreement and for a period of not less than one (1) year after the date of termination or expiration. Provided, however, that in the event of litigation or settlement of claims arising from the performance of this Agreement, CONSULTANT and its subcontractors shall maintain all files and records until such litigation, appeals or claims are resolved. Duly authorized representatives of CITY shall

have right of access during normal business hours and after reasonable notice to CONSULTANT's and subcontractors' files and records relating to the services performed hereunder, and may review and copy the files and records at appropriate stages during performance of the services and during the one (1) year period following termination or expiration of this Agreement. CONSULTANT shall include this provisions in its contracts with all subcontractors.

6. Time is of the Essence. Time is of the essence of this Agreement.

7. Prevailing Wages. When applicable, for purposes of this Agreement, CONSULTANT and its subcontractors shall comply with all applicable prevailing wage laws, e.g., but not limited to, California Labor Code Sections 1770 et seq. In accordance with said Section 1775, CONSULTANT shall forfeit as a penalty to the City two hundred dollars (\$200) for each calendar day or portion thereof for each worker paid less than the prevailing rates for such work or craft in which such worker is employed for any work done on-site under the Agreement by CONSULTANT or by any subcontractor in violation of the provisions of the Labor Code and in particular, Labor Code Sections 1770 to 1780, inclusive. In addition to said penalty and pursuant to said Section 1775, the difference between such stipulated prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the stipulated prevailing wage shall be paid to each worker by CONSULTANT or the applicable subcontractor.

Pursuant to the provisions of California Labor Code Section 1773, the contracting department has identified the source, stated below, of the general prevailing rate of wages applicable to the site to be done, for straight time, overtime, and holiday work. The holiday wage rate listed shall be applicable to all holidays recognized in the collective bargaining

agreement of the particular craft, classification or type of worker concerned. These wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>.

Pursuant to Labor Code Section 1773.2, general prevailing wage rates set forth above, which forms a part of this Agreement, shall be posted by CONSULTANT at a prominent place at the work site. Prevailing wage rates to be posted at the work site will be furnished by the contracting department. The possibility of wage increases is one of the elements to be considered by CONSULTANT in determining its proposal, and will not under any circumstances be considered as the basis of a claim against CITY or the Agreement.

8. Contractor Registration. No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this Agreement, CONSULTANT and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. CONSULTANT is hereby notified that this Agreement is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

9. Compliance with Laws. CONSULTANT shall comply with all federal, state and local laws, ordinances and policies as may be applicable to the performance of services under this Agreement.

10. Ability to Perform. CONSULTANT agrees and represents that it has the time, ability and professional expertise to perform the services required under this Agreement.

11. Governing Agreement. In the event of any conflict between this Agreement and its EXHIBITS, the provisions of this Agreement shall govern. In the event of any conflict between any of the EXHIBITS, the provisions of the first in order of attachment shall govern.

12. Assignment. CONSULTANT is employed to perform unique personal services. CONSULTANT shall not assign this Agreement without the prior written consent of CITY. CONSULTANT shall not employ or otherwise incur any obligation to pay other specialists or experts for services in connection with this Agreement, without prior written consent of CITY.

13. Independent Contractor. CONSULTANT shall act as an independent contractor, and covenants and agrees that it will conduct itself consistent with such status, that it will neither hold itself out as, nor claim to be, an officer or employee of CITY by reason of this Agreement.

CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and location of work in accomplishing CITY's on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.

14. Representation and Warranties. CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working for

CONSULTANT, to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person, other than a bona fide employee, any fee, commission, percentage, brokerage fee, gift or any other consideration, contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, CITY shall have the right to terminate as void this Agreement, without liability, or, in its discretion, to deduct from the Agreement price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift or contingent fee.

15. Successors in Interest. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.

16. Copyright, Ownership and Use of Materials. All tangible materials ("Material") created or delivered pursuant to this Agreement is considered a work made for hire under the Copyright Act. To the extent such Material does not qualify as a work made for hire, CONSULTANT hereby assigns to CITY all right, title, and interest, including but not limited to all copyrights, in all Material created by CONSULTANT in its performance under this Agreement. Material constitutes the scope of work outlined in Exhibit A and attached hereto, and all written and other tangible expressions, including but not limited to, drawings, papers, documents, reports, surveys, renderings, exhibits, sketches, maps, models, prints, paintings or photographs, in any and all media or formats in which such materials have been created or are maintained. All Material furnished by CONSULTANT is, and shall remain, the property of CITY.

CONSULTANT shall execute any documents necessary to effectuate such assignment. In the event that CONSULTANT uses, employs, designates, or retains any person or entity who is not an employee of CONSULTANT, to perform any work required of it pursuant to this

Agreement, CONSULTANT shall require said person or entity to execute an agreement containing the preceding paragraph.

17. Termination of Agreement. The City may terminate this Agreement without cause by giving CONSULTANT ten (10) days advance written notice from the City Manager. CONSULTANT may terminate this Agreement without cause by giving CITY thirty (30) days advance written notice. In the event of termination through no fault of CONSULTANT, CITY shall compensate CONSULTANT for services performed as of the date of termination, upon the release to CITY of all Material hereunder, in any and all media or formats in which such materials have been created or are maintained. CITY retains the right to receive and use any Material, notwithstanding any termination or any dispute regarding the amount to be paid.

18. Attorney's Fees; Venue; Governing Law. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorneys' fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

19. Modification. This Agreement and each provision contained herein may be waived, amended, supplemented or eliminated only by mutual written agreement of the parties.

20. Severability. If any of the provisions contained in this Agreement is for any reason held invalid or unenforceable, such holding shall not affect the remaining provisions or the validity and enforceability of the Agreement as a whole.

21. Notices. Any notices to parties required by this Agreement shall be delivered personally or mailed, U.S. first class postage prepaid, addressed as follows:

CITY OF ROSEVILLE

Janice Gainey
Environmental Utilities
2005 Hilltop Circle
Roseville, CA 95747

CONSULTANT

Joseph Domenichelli
5180 Golden Foothill Parkway
Suite 220
El Dorado Hills, CA 95762

Either party may amend its address for notice by giving notice to the other party in writing.

22. Integrated Agreement. This is an integrated agreement and contains all of the terms, considerations, understanding and promises of the parties. It shall be read as a whole.

IN WITNESS WHEREOF, the City of Roseville, a municipal corporation, has authorized the execution of this Agreement in duplicate by its City Manager and attested to by its City Clerk under the authority of Resolution No. _____, adopted by the Council of the City of Roseville on the ____ day of _____, 20____, and CONSULTANT has caused this Agreement to be executed.

CITY OF ROSEVILLE, a
municipal corporation

BY: _____
DOMINICK CASEY
City Manager

DOMENICHELLI & ASSOCIATES, INC.,
a California corporation

BY: 
its: president
and

[SIGNATURES ON FOLLOWING PAGE]

ATTEST:

BY: Kristin L. Domeich
its: CFO

BY: _____
SONIA OROZCO
City Clerk

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: Richard D. Plecker
RICHARD D. PLECKER
Environmental Utilities Director

EXHIBIT “A”



DOMENICHELLI AND ASSOCIATES, INC. CIVIL ENGINEERING

Janice Gainey, P.E.
Senior Engineering
City of Roseville
311 Vernon Street
Roseville, CA 95678

April 3, 2020

RE: Scope of Work and Fee for Professional Design Services – Downtown Water Mains Replacement Project – Hillcrest Neighborhood

Dear Ms. Gainey,

Domenichelli and Associates, Inc. (D&A) is pleased to submit the attached Scope of Work and Fee for the City of Roseville's Downtown Water Mains Replacement Project.

Our point of contact will be myself, Joe Domenichelli, President at JoeD@daengineering.net. A second principal contact will be Sara Rogers, Vice President at SaraR@daengineering.net. Our address and phone numbers are:

Corporate Office:

5180 Golden Foothill Parkway, Suite 220
El Dorado Hills, CA 95762

Phone: (916) 933-1997

Sacramento Office:

3301 C Street #1000
Sacramento, CA 95816

Cell: (916) 716-4207 (Joe), or (916) 803-0012 (Sara)

Our team will be led by Sara Rogers, who has over 19 years of experience managing and/or designing large water main replacement projects throughout northern California. She will be supported by Joe Domenichelli who has over 35-years of design and construction experience in the water resources industry. Our team also includes Tom Dugan and Adam Motiejunas, with extensive experience in pipeline replacement design. In addition, Mr. Dugan specializes in Construction Management. His construction experience will be an asset during the design and design-assist/construction phases of the project.

Our unique approach to providing the design-assist services for this project is reflected in our scope of work. We have the right team, the necessary support staff, a proven track record on similar projects, and the right experience to provide outstanding services to the City. Please note that there are a few added optional tasks included in our Project Plan.

D&A will perform all of the services defined in the RFP and adhere to the requirements of the RFP, Addendum #1 (issued March 2nd), and Addendum #2 (issued March 11th). If you have any questions or require additional information, please do not hesitate to contact myself or Sara Rogers.

Sincerely,

A handwritten signature in black ink, appearing to read 'Joe D.', with a stylized flourish at the end.

Joe Domenichelli, P.E. – President,
Domenichelli and Associates, Inc.



CITY OF ROSEVILLE

Scope of Work for Downtown Water Mains Replacement Project – Hillcrest Neighborhood

SCOPE OF WORK

The following provides our detailed project scope of work. Additional (optional) tasks are also provided for reference. These optional tasks may be authorized by the City as required.

Task 1 – Project Management and Coordination

Along with providing the right design team, a proper project management and design approach will be necessary to keep the project on schedule while providing the necessary quality assurance and quality control (QA/QC). First and foremost, our project management approach involves strong leadership and communication. Our management team members are principal and senior level staff who will also be involved during the project design. This level of commitment and experience has made D&A design teams highly successful with continued solicitation for service from our current clients. We provide concise and complete meeting minutes; schedule updates; and progress reports that accompany monthly billing.

Recognizing the Design-Assist approach will require an even higher level of coordination and communication amongst all parties involved, D&A's project management team is committed to communicating often and early between the City's staff, the Contractor, the design team members, and the local Hillcrest community if requested by the City. This will assure quick and efficient response to situations as they present themselves in the effort to meet the City's milestone dates and project objectives.

As the Principal-In-Charge for QA/QC for our design team, Joe Domenichelli will provide a

final review of all major design documents prior to submittal to the City.

Under the Design-Assist project approach, D&A understands that accurate and up to date data sharing amongst all parties is critical to respond promptly to situations and convey information to the field. Provided the City does not have a preferred data sharing platform, D&A proposes using a cloud-based data sharing platform (e.g. google doc, box, drop box, etc.). D&A would present a project folder structure to the City for approval, which would then be setup on the agreed data sharing site. The project folders would be accessible to the City, the Contractor, D&A, and others as determined necessary. Our management team will continually audit the data content and folder organization to ensure the most up to date information is posted, older content is archived, and the files are in good working order.

D&A is available to support the City at their request during public outreach. We have budgeted sixteen (16) hours for this effort under project management.

Table 1 lists the proposed meetings and workshops we anticipate holding leading up to construction. They are being presented and budgeted in Task 1 but will be performed in the respective tasks identified. A brief description of the design meetings/workshops are provided with more description in their respective tasks. Construction progress meetings are not listed in this table but have been budgeted under Task 6.



CITY OF ROSEVILLE

Scope of Work for Downtown Water Mains Replacement Project – Hillcrest Neighborhood

Table 1. Summary of Anticipated Design Meetings

Design Meeting and Workshop	Associated Task	Description
Initial Project Workshop	Task 2b	Project Team introductions, review project objectives and schedules, data sharing and protocols, review design criteria, discuss available and additional data needs, discuss specification content, discuss procurement document status and content.
Preliminary 60% Design Review Meeting	Task 2c	After the preliminary design field walk, review the compiled field comments and incorporate field changes, discuss the incorporation of the road restoration plans.
Final 60% Design Workshop	Task 2c	Review all final City comments and D&A responses prior to finalizing the 60% plans and 100% specifications
Procurement Document Finalization Workshop	Task 3	Review D&A's comments with the City and provided further assistance in finalizing the procurement documents.
Contractor Selection Pre-proposal Meeting	Task 3	Participate in the procurement pre-proposal meeting
Design/Construction Workshop	Task 4	Introduction to the selected contractor, review proposed 100% design and potholing sequence approach, review data needs, review permitting constraints, review design/construction collaboration effort, discuss ways to improve efficiency and streamline construction activities.
Final 100% Phase Reviews	Task 4	Review all final 100% Phase Designs (Phases TBD)

The following are the minimum project management responsibilities that will be provided:

- ❖ Effective tracking of schedule and budget.
- ❖ Quality assurance/control of all deliverables.
- ❖ Communication with City staff and Contractor. This includes scheduling and conducting the various design meetings and workshops listed above through design.
- ❖ Written and timely requests for information.
- ❖ Regular project meetings with City staff, Contractor, and other entities as determined necessary and preparation of meeting minutes. Some of the meetings

and plan review will include City Operations and Maintenance staff, the Contractor, inspection and construction management consultants.

- ❖ Monthly billing with appropriate summary of work performed and cost allocation by task, project percent complete and earned value table, narrative of tasks to be completed, remaining budget, and schedule updates.
- ❖ Routine auditing of the data sharing platform to ensure the files are updated and properly archived.

Unanticipated Project Management and Coordination – This Task includes budget for unanticipated Project Management and Coordination services. An unanticipated budget equivalent to 5% of the Project Management and



CITY OF ROSEVILLE

Scope of Work for Downtown Water Mains Replacement Project – Hillcrest Neighborhood

Coordination Scope has been included in the cost proposal. If the City determines that additional scope of work, (which was unanticipated) is required to be done by the consultant, the consultant shall proceed only after authorization is received by the City's Project Manager.

Task 2 – 60% Design Services

Task 2a – Optional Surveying Services

Upon receiving Notice to Proceed (NTP) and the City's authorization, D&A would coordinate with Vertical Mapping to begin the process of obtaining an aerial topographic map that we suggest becomes the Project plan base mapping. As discussed in our project understanding, the use of the aerial topo map as the base maps provides the following advantages: 1) provides a defined datum and elevation that the City, Design Consultant, and the Contractor can all make reference, 2) provides 1-foot contours over the entire project area allowing accurate surface profiles be established that would accurately reflect utility depths, and 3) improves the accuracy of data presented in the DDW waiver request.

As discussed below, optional ground survey and utility investigation using ground penetrating radar (GPR) may be necessary as the design progresses and informational needs are identified. D&A will coordinate these optional service needs with the City and proceed upon receiving the City's authorization.

Task 2b – Initial Project Workshop

Upon receiving NTP, D&A would review the City's available project and utility data and conduct the Initial Project Workshop. The intent of this workshop are the following: establish lines of communication; establish the data sharing organization structure and define protocols; review and discuss the City's available information and identify other informational needs; discuss design criteria to be implemented in the 60% plans; discuss the City's pavement

project status and schedule; discuss permitting approaches and schedules; and discuss the content and development of the 100% specifications (e.g. front-ends, special provisions, and technical).

Task 2c – Design Plan Preparation

Taking the information gathered from the Initial Project Workshop, D&A will begin organizing and assessing feasible pipe alignments within the Project area. We will also show on the base maps any potential staging areas identified by the City staff. The City has identified having limited right-of-way and property information in one portion of the project (Hillcrest Ave and Marietti Way). In order to ensure that the improvements are within existing right-of-way or determine easement needs, D&A has budgeted for obtaining title reports for the two properties in question. Our surveyor will assist with the right-of-way analysis.

Assuming aerial topo mapping is not authorized, D&A will develop preliminary 60% plans based on the City provided AutoCAD base maps and GIS data. D&A will overlay all available parcel, right-of-way, and City's available utility and GIS data (horizontal and vertical) onto these base maps. We are anticipating that accurate ground surfaces cannot be developed from the City's base maps. In the procurement documents we will require that the Contractor survey street centerline elevations when potholing for the 100% design effort. As discussed more in Task 4, the plans and ultimately the profiles will be refined based on the utility pothole information obtained and surveyed by the Contractor.

D&A will show the preliminary 60% pipe alignments on the base maps, and then schedule a design site walk with the City Representative(s) to evaluate the proposed alignments relative to the City's utility information and right-of-way lines shown as compared to the actual field conditions. The site walk will allow the design



CITY OF ROSEVILLE

Scope of Work for Downtown Water Mains Replacement Project – Hillcrest Neighborhood

team an opportunity to verify and/or collect additional field information (e.g. field measurements, drain inlet depth, etc.), review the proposed alignment with the City and obtain feedback on the City's preferences as they relate to the water main and road restoration projects. In addition to the above, the site walk will identify other informational needs (e.g. identify additional design pothole needs or ground survey and/or GPR locations) that would enhance the 60% design plans. Relevant information and input gathered from the design site walk will be incorporated into the Final 60% Design plans.

With the 60% plans, D&A proposes to develop specific localized profiles targeted at storm and sewer crossing. Ultimately these profiles will be expanded during the 100% design to show the entire pipeline and all other utility crossings. The crossing profiles will be developed using available City sewer and storm drain GIS systems data, and serve two initial benefits: 1) provide the contractor a better understanding of the specific sewer and stormwater crossing they will encounter and 2) the profiles would be presented in the DDW waiver packet to illustrate the proposed separation from non-potable water utilities. As discussed in Task 5, D&A recommends submitting the DDW waiver at the 60% design phase to help maintain the overall project schedule and avoid potential delays transitioning between 100% design and construction.

Concurrent with developing the 60% plans, D&A will develop the 100% project specifications. These specifications will incorporate the City's road restoration project specifications (prepared by the City). Project Special Provisions will reflect all conditions stipulated in the City's draft Design-Assist and Construction RFP. D&A anticipates the City's front-end specifications (Division 0) would be received at the kick-off meeting. D&A will develop both the Division 1 and Division 2 technical specifications. A list of proposed technical specifications will be

provided to the City prior to the kick-off meeting for their review and comment. If the City has Division 1 technical specifications they prefer, D&A will modify those to reflect both the water main replacement project and the road restoration project. Division 2 technical specifications will be developed based on D&A's past water main project experience and City Standards. The road restoration Division 2 technical specifications will be prepared and provided by the City and incorporated into the overall Project specifications. D&A anticipates that the development of the 100% specifications will be a result of coordination between D&A and City staff.

D&A will conduct a thorough internal QA/QC of the final 60% plans and the 100% specifications prior to formally submitting them to the City for final review and comment. This submittal will also be accompanied by the engineer's opinion of probable construction cost. Once the City completes their formal review, D&A will catalog all comments and provided written response that will be reviewed with the City during a final 60% design workshop. This workshop would solidify the design's direction and initiate the Contractor procurement process.

2d – Corrosion Evaluation

Based on the recent geotechnical report provided in the RFP addenda, lab results show potential for aggressive soils in one of the samples taken. Therefore, D&A is adding JDH Corrosion Consultants, Inc. to our team to evaluate the corrosion potential of the soils by use of "over the line" soils resistivity testing throughout our project area. A report will be provided describing the corrosivity of the soils relative to our pipeline materials and will provide recommendations for protective measures if needed.

Unanticipated 60% Design – This Task includes budget for unanticipated 60% Design services. An unanticipated budget equivalent to 10% of the



CITY OF ROSEVILLE

Scope of Work for Downtown Water Mains Replacement Project – Hillcrest Neighborhood

60% Design Scope has been included in the cost proposal. If the City determines that additional scope of work, (which was unanticipated) is required to be done by the consultant, the consultant shall proceed only after authorization is received by the City's Project Manager.

Task 3 – Procurement Support

D&A has recent project experience in assisting agencies in the review and negotiations related to contractor qualification-based proposals and contracts. We will review the City's draft Design-Assist and Construction RFP and provide written comments and suggestions felt beneficial to better align the Contractor selection process with the Project plans and specification and general Project scope. One initial recommendation would be to include a potholing sequence that would correlate with D&A's proposed 100% design phased approach discussed in Task 4. We anticipate the development of the procurement document and review will result in multiple phone and/or email exchanges, and a finalization workshop with the City before the procurement document is finalized and the procurement package is released for proposals.

D&A will work with the City to determine the criteria for contractor selection based on the RFP requirements. A decision matrix will be developed to aid in the selection process.

During the solicitation period, D&A will support the City by participating in the pre-proposal meeting and preparing addendum that will include responses to Contractor questions, design clarifications and any design revisions. Upon the City opening the contractor proposal, D&A will be available to work with the City's contractor selection committee to review the proposals and provide recommendations on Contractor selection.

Unanticipated Procurement Support Services - This Task includes budget for unanticipated Procurement Support services. An unanticipated

budget equivalent to 5% of the Procurement Support Scope has been included in the cost proposal. If the City determines that additional scope of work, (which was unanticipated) is required to be done by the consultant, the consultant shall proceed only after authorization is received by the City's Project Manager.

Task 4 – 100% Design Services

Once the City selects a Contractor and has issued them NTP, D&A will closely coordinate with the City and the Contractor. We propose conducting a design/construction workshop to conduct introductions, begin developing a working relationship, lay the groundwork for working through design and into construction. At this meeting, D&A will review our 100% design phase approach and revisit the pothole sequence defined in the procurement document. Based on the City's proposed schedule, the 100% plan design and construction activities overlap by approximately 3-months. Therefore, D&A proposes phasing the 100% design. The exact number of phases and how each is defined will be outlined during the 60% design.

The design/construction workshop will allow all parties to make suggestions to improve the efficiency of phasing the 100% designs, sequencing the pothole effort to best coordinate design efforts with construction schedules, and help streamline the construction activities. The phased approach will allow construction work to begin while pothole data is collected, and the data incorporated into its respective design phase. Furthermore, this will allow alignment revisions to be made and DDW waiver amendments processed if necessary.

Based on the City Standard, the new ductile iron or PVC pipe will reflect a minimum 48-inches of cover. The profile will also show defined restraint lengths, fittings (e.g. tee and bends), joint deflections, valves, air vents and blow offs, fire hydrants, and utility crossings including callouts specific to DDW constraints.



CITY OF ROSEVILLE

Scope of Work for Downtown Water Mains Replacement Project – Hillcrest Neighborhood

As each 100% design phase nears completion, D&A will schedule a constructability walk with the City and the Contractor to review the design's constructability and to identify and mitigate as many foreseeable conflicts before construction. The information gathered from the constructability walk will be incorporated into the final 100% plans reviewed once again by the City and the Contractor and then issued by the City to the Contractor for construction upon completing any contract negotiations. We have included contract negotiation support under Task 6.

Unanticipated 100% Design Services – This Task includes budget for unanticipated 100% Design services. An unanticipated budget equivalent to 5% of the 100% Design Scope has been included in the cost proposal. If the City determines that additional scope of work, (which was unanticipated) is required to be done by the consultant, the consultant shall proceed only after authorization is received by the City's Project Manager.

Task 5 – Permit Assistance

D&A concurs with the City that the normal encroachment permit process will not be required and that the Project will be categorically exempt from the CEQA process. The basis of our permitting assistance effort will be to prepare the State Water Resources Control Board – Division of Drinking Water (DDW) waiver packet and prepare a Storm Water Pollution Prevention Plan (SWPPP).

As mentioned previously, D&A recommends preparing and submitting the Division of Drinking Water (DDW) waiver packet upon completing the 60% design. This will help maintain the overall project schedule and allow the Contractor to begin pipe installation at locations where the DDW waiver does not apply. As utility information becomes available during the Contractor's potholing efforts, D&A will review the pothole data and make the

determination on whether a waiver amendment is necessary or an in-field pipe adjustment at the crossed/paralleled non-potable utility can be made. If necessary, D&A will revise the pipe alignment to comply with the DDW regulations. In either event, D&A assumes the City's inspector(s) or other staff will document (measure and photograph) all non-potable pipe crossings and parallel pipe locations subject to the DDW waiver. During the project closeout, D&A will coordinate with the City inspector(s) and prepare the final DDW waiver closeout documentation verifying to DDW that all crossings and parallel pipe were installed in compliance with DDW regulations. D&A will coordinate with the City and the Contractor throughout the 100% design and construction phase to ensure all DDW concerns are promptly addressed to avoid potential in-field delays.

Task 5a – Storm Water Pollution and Prevention Plan (SWPPP) Development

We anticipate a SWPPP will be necessary, therefore D&A has included services to prepare a SWPPP and assist the City in administering the SWPPP through the State SMARTs system. D&A QSD/P's have relevant experience developing and assisting agencies through the State SMARTs system. The SWPPP will be developed using the 60% plans. Amendments to the SWPPP will be made to reflect the finalized 100% plans and filed with the State as the project progresses.

Unanticipated Permit Assistance Services – This Task includes budget for unanticipated Permit Assistance services. An unanticipated budget equivalent to 10% of the Permit Assistance Scope has been included in the cost proposal. If the City determines that additional scope of work, (which was unanticipated) is required to be done by the consultant, the consultant shall proceed only after authorization is received by the City's Project Manager.



CITY OF ROSEVILLE

Scope of Work for Downtown Water Mains Replacement Project – Hillcrest Neighborhood

Task 6 – Engineering Services During Construction

D&A will provide typical engineering services during construction (ESDC) that will include at a minimum attendance at construction progress meetings; plan revisions and design clarifications collaborated with the Contractor; shop drawing submittal reviews; response to requests for information; change order review and negotiation support; site reviews as needed; and record drawings development based on City approved field “as-built” drawings.

We recognize that the Design-Assist approach will require a higher level of communication and collaboration with the City and the Contractor. In addition to budgeting twenty-four (24) hours for field visits for constructability evaluation and/or verification of site conditions, D&A has also budgeted for participating in fourteen (14) construction meetings and supporting the City during contract negotiations with the Contractor.

At the completion of construction, D&A will review each phase’s as-built plans with the City inspector and Contractor prior to developing a set of draft record drawings of that phase. The draft record drawings will be compiled into a single Project Record Drawing set and submitted to the City for formal review and comment. D&A will review those comments with the City and incorporate them into the Final Project Record Drawing set.

Unanticipated Engineering Services During Construction – This Task includes budget for unanticipated Engineering Services During Construction. An unanticipated budget equivalent to 10% of the Engineering Services During Construction Scope has been included in the cost proposal. If the City determines that additional scope of work, (which was unanticipated) is required to be done by the consultant, the consultant shall proceed only after authorization is received by the City’s Project Manager.

Project Deliverables

The following is a list of deliverables for the scope tasks described above.

Task 1 Project Management & Coordination Deliverables:

- *Monthly invoices with progress report and schedule updates*
- *Schedule and conduct Initial Project Workshop (1) and technical review meeting (6) and prepare meeting minutes and action items list for all meetings.*
- *Participate in contract negotiations meetings between the City and Contractor regarding cost adjustment based on the development of the 100% plans. Provide written evaluations of the Contractor justification for cost adjustments and recommendation to the City for accepting the requested changes.*

Task 2 60% Design Deliverables:

- *Draft 60% Plans (PDF; three (3) 11x17 hard copies)*
- *Final 60% Plans (PDF format)*
- *Final 100% Specifications (PDF, Word)*
- *Corrosion Evaluation Report (PDF, Word)*

Task 3 Procurement Support Deliverable:

- *Written comments to the City’s draft Design-Assist and Construction RFP*
- *Participate in the pre-proposal meeting*
- *Addendum (2) preparation support including response to Contractor RFIs and design clarifications*

Task 4 100% Design Deliverable:

- *100% designs by phase (PDF, two full-size 22x34, four half-size 11x17 prints)*

Task 5 Permit Assistance Deliverable:

- *Develop DDW waiver package for City approval and filing with the State*



CITY OF ROSEVILLE

Scope of Work for Downtown Water Mains Replacement Project – Hillcrest Neighborhood

- *Prepare DDWA waiver amendments (as needed)*
- *Develop a Storm Water Pollution Prevention Plan and SMARTs Filing*

Task 6 Services During Construction Deliverables:

- *Participation at construction progress meetings (Assume fourteen 1-hour weekly meetings between April – October 2021)*
- *Submittal review and response*
- *Response to RFI questions*
- *Design revisions during construction as needed*
- *Prepare Final Project Record Drawings (AutoCAD files, Hard Copies: One full size (22x34), One half size (11x17))*

Project Schedule

The following schedule provides an outline of our anticipated task timelines. The schedule will be updated as needed.

City of Roseville
Downtown Water Mains Replacement Project
Hillcrest Neighborhood
Design Assist Schedule
March 16, 2020



EXHIBIT “B”

Replacement Project, Hillcrest Neighborhood

Labor																		Outside Services									
Joe Domenichelli		Sara Rogers		Sr. Engineer, Construction Lead		Adam Motiejunas		Juana Tellez		Jim Cade		Total Hours		Total Labor Costs (1)		Vertical Mapping (Optional) (24-hours)		Divers Surveying (Optional) (24-hours)		B&B Locating (Optional) (24-hours)		JDH Corrosion		Subtotal			
QA/QC		PM		Sr. ENG, CONSTR. LEAD		PE		STAFF ENG		CAD						SUB		SUB		SUB		SUB					
\$190		\$175		\$155		\$125		\$110		\$105																	
Updates																											
4		40		24		40		8				64		\$10,720													
		32		32								116		\$17,200													
		12		4								16		\$2,720													
Services																											
Subtotal Task 1:		4		84		60		40		8		0		196		\$30,640		\$0		\$0		\$0		\$0			
						2						4		\$560		\$6,700		\$2,500						\$9,200			
						4		4				8		\$1,120				\$8,400		\$7,200				\$15,600			
		8		16		24		24				72		\$11,040													
		3		3		8		8				24		\$3,555													
		8		16		16		40		200		440		\$50,400													
		8		40		80						128		\$20,920													
		2		2		4						8		\$1,350								\$5,500					
Subtotal Task 2:		29		77		138		78		162		200		684		\$88,945		\$6,700		\$10,900		\$7,200		\$0		\$24,800	
		4		16		16						36		\$6,040													
		4		16		16		16				52		\$8,040													
		4		16		16						36		\$6,040													
Subtotal Task 3:		12		48		48		16		0		0		124		\$20,120		\$0		\$0		\$0		\$0		\$0	
		8		12		16		24				40		\$5,480													
		16		24		40		24		200		100		\$13,500													
								40				480		\$57,040													
Subtotal Task 4:		24		36		72		88		200		200		620		\$76,020		\$0		\$0		\$0		\$0		\$0	
		4		8		24						116		\$14,680													
		2		8		16						26		\$4,260													
				16								58		\$7,580													
Subtotal Task 5:		8		32		40		0		120		0		200		\$26,520		\$0		\$0		\$0		\$0		\$0	
Assistance		16		16		60		40				132		\$20,140													
		6		16		40		24				86		\$13,140													
		6		16		32		24		16		118		\$16,220													
on Support		6		16		32						54		\$8,900													
		2						8		24		40		74		\$8,220											
Subtotal Task 6:		36		64		164		96		48		56		464		\$66,620		\$0		\$0		\$0		\$0		\$0	
TIONAL SERVICES		113		341		522		318		538		456		2288		\$308,865		\$6,700		\$10,900		\$7,200		\$5,500		\$24,800	
TIONAL SERVICES		111		325		516		312		498		456		2218		\$289,605		\$0		\$0		\$0		\$0		\$0	

ORDINANCE NO. 6214

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20
BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY
EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2019-20, is hereby amended by transferring appropriation to and from the activities indicated below:

Appropriate funds for the Downtown Water Mains Replacement Project – Hillcrest Neighborhood, per request of the Public Works Department, as listed on the attached Request for Budget Adjustment in the amount of \$1,533,248.

SECTION 2. This ordinance is hereby declared to be an appropriation measure, immediately effective pursuant to the provisions of Section 5.03 of the Charter.

SECTION 3. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the ordinance book, under the record of the ordinance, a certificate under her hand stating the time and place of such publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville, this
_____ day of _____, 2019, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITLE: Janice Gainey, Senior Engineer FISCAL YEAR: 2019-2020
PREPARER NAME & TITLE: _____ COUNCIL DATE (if applicable): May 6, 2020
DEPARTMENT/DIVISION: Environmental Utilities Technical Services ORDINANCE: _____

EXPENDITURES/EXPENSES/TRANSFERS OUT

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6130	6587	84001	500094	1,476,719	Capital outlay CIP- design services
6130	6550	74161	000000	(1,476,719)	Reduce capital outlay (deplete center budget to move to 500094)
6130	5080	84001	500094	56,529	Secondary labor - charged to project
6130	5080	74161	000000	(56,529)	Reduce internal labor (deplete cost center budget to move to 500094)
TOTAL				-	

REVENUES/TRANSFERS IN

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
TOTAL				-	

NET ADJUSTMENT	-
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FUND BALANCE

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
TOTAL				-	

Justification for Budget Adjustment:

The Downtown Water Mains Rehabilitation effort was initiated as an operating cost center in FY2020 (74161) in the Water Rehabilitation Fund (6130). In order to facilitate project expense tracking, this adjustment moves the remaining budget into a new multi-year project (500094). This is not an increase in appropriations and there is no net effect on the available resources in the Water Rehabilitation Fund. This cost center can then be closed at the end of FY2020.

 REQUESTING DEPARTMENT HEAD / DESIGNEE Dennis Kauffman Digitally signed by Dennis Kauffman Date: 2020.04.10 14:24:43 -07'00'		4/9/20	REQUIRED APPROVALS:	Scott Pettingell Digitally signed by Scott Pettingell Date: 2020.04.10 13:34:46 -07'00'
CHIEF FINANCIAL OFFICER / DESIGNEE		DATE	BUDGET MANAGER / DESIGNEE	DATE
CITY MANAGER / DESIGNEE		DATE	BUDGET DEPARTMENT USE ONLY:	
POSTED BY		DATE		

Revised: June 24, 2019



COUNCIL COMMUNICATION

CC #: 0748
File #: 0900-02

Title: West Side Tanks and Pump Station Project - Design-Assist Construction Agreement and Budget Adjustment
Contact: Janice R. Gainey 916-774-5535 jrgainey@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.29.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council:

- 1) Approve the Design-Assist and Construction Agreement for the West Side Tank and Pump Station Project with Auburn Constructors, LLC in the amount of \$23,481,300. (Exhibit A) and adopt a resolution authorizing the City Manager to execute the attached Design-Assist and Construction agreement for the project.
- 2) Authorize the Environmental Utilities Director or his designee to approve and pay for contract change orders for this project that could increase the contract amount by no more than 10% (\$2,348,130) or not to exceed a total contract amount of \$25,829,430.
- 3) Adopt an ordinance to approve a budget adjustment of \$4,284,886 from available resources in the Water Construction Fund to fully fund the project.

BACKGROUND

Projected population growth in the western portion of the City requires additional potable water storage and distribution facilities be constructed to support increased water demand. The five-acre West Side Tank and Pump Station site is located adjacent to the Pleasant Grove Wastewater Treatment Plant and is identified in the West Roseville Specific Plan as the location for potable water storage reservoirs and associated pumping facilities.

In 2005, Council adopted a capital improvement project to construct the above listed facilities. A Preliminary Design Report (PDR) was completed in 2007 and construction documents were completed in 2008. Prior to bidding the project, the Environmental Utilities Department (EU) made a decision to put the project on hold due to the slowdown in residential and commercial growth.

With the City's growth patterns on the rise, EU resumed work on the project in 2015 with an updated PDR. Phase 1, which included some site work to remove unsuitable soils which was completed in 2017, and in 2019, Phase 2 commenced with award of a Professional Design Services Agreement to Water Works Engineers to complete the engineering design of the

facilities.

In November 2019, a RFP for Design-Assist Construction of the facilities was published. On January 30, 2020, four construction firms submitted proposals to the City Clerk's office for review and consideration. Based upon review of the proposals by EU's Proposal Evaluation Committee, the proposal of Auburn Constructors, LLC., was identified as providing the best value to the City and was ranked the highest based on the evaluation criteria outlined in the RFP. Staff therefore recommends that the contract be awarded Auburn Constructors, LLC.

This project supports the City's Strategic Plan Goal F - Invest in Well-Planned Infrastructure and Growth by reinvesting in aging infrastructure.

FISCAL IMPACT

This project has a remaining budget of \$22,028,384 and will require an additional \$4,284,886 from available resources in the Water Construction Fund for a total project budget of \$26,313,270, to cover the not-to-exceed contract amount of \$25,829,430 and the staff time costs of \$483,840.

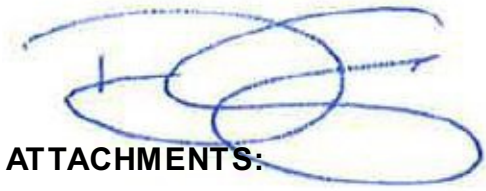
ENVIRONMENTAL REVIEW

Development of the West Side Tank and Pump Station Phase 2 Project was previously evaluated in the Amoruso Ranch Specific Plan Environmental Impact Report (EIR) (SCH No. 2008032115), certified June 15, 2016. Construction of the West Side Tank and Pump Station Phase 2 project is within the scope of the project covered by the Amoruso Ranch Specific Plan Final EIR. The EIR provides environmental analyses of community infrastructure and facilities, including specifically addressing potable water storage and potable water storage tank location on the West Side Tank and Pump Station project site. Because the project is consistent with the Amoruso Ranch Specific Plan Final EIR, no new effects would be expected to occur and all applicable mitigation measures from the Amoruso Specific Plan EIR will be implemented during the design and construction of the project. As the proposed project meets the requirements identified in Section 15183 of the State CEQA Guidelines, no additional CEQA review is required.

Respectfully Submitted,

Janice R. Gainey, Senior Engineer

Richard D. Plecker, Environmental Utilities Director



ATTACHMENTS:

Description

Resolution No. 20-140

Dominick Casey, City Manager

Volume 1 Contract Documents

Exhibit A - Design Assist Agreement Volume 2 no tabs included

Exhibit A - Design Assist Agreement Volume 2 tabs A - H

Exhibit A Design Assist Agreement Volume 2 tabs I - L

Volume 3 Specifications

Volume 4 First Portion

Volume 4 Second Portion

Ordinance No. 6219

West Side Tanks and Pump Station Budget Adjustment

RESOLUTION NO. 20-140

APPROVING AN AGREEMENT FOR THE DESIGN-ASSIST AND CONSTRUCTION OF
THE WEST SIDE TANKS AND PUMP STATION PROJECT, BY AND BETWEEN
AUBURN CONSTRUCTORS, LLC AND THE CITY OF ROSEVILLE, AND AUTHORIZING
THE CITY MANAGER TO EXECUTE IT ON BEHALF OF
THE CITY OF ROSEVILLE

WHEREAS, an agreement for the design-assist and construction of the West Side Tanks and Pump Station project, by and between Auburn Constructors, LLC and the City of Roseville, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said agreement is hereby approved.

BE IT FURTHER RESOLVED that the Environmental Utilities Director or his designee is authorized to approve change orders for the project, consistent with the contract terms, provided that the net cost of all change orders shall not exceed ten percent (10%) of the contract price.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



CONTRACT DOCUMENTS FOR

DESIGN-ASSIST AND CONSTRUCTION OF

WEST SIDE TANKS AND PUMP STATION PROJECT

VOLUME 1 of 4:

REQUEST FOR PROPOSALS (RFP)

INCLUDING:
Proposal Selection Process, Instructions,
Requirements and Forms

DUE: January 30, 2020 3:00 PM

DELIVER TO:
City of Roseville
Attn: City Clerk Department
311 Vernon Street
Roseville, CA 95678

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CITY OF ROSEVILLE
NOTICE FOR PROPOSALS
FOR DESIGN-ASSIST AND CONSTRUCTION OF
WEST SIDE TANKS AND PUMP STATION PROJECT

NOTICE IS HEREBY GIVEN that proposals for Design-Assist and Construction of the **West Side Tanks and Pump Station Project** will be received by the City of Roseville. Proposals will be accepted **ONLY** at the office of the **City Clerk, Civic Center, 311 Vernon Street, Roseville, CA, 95678**, until 3:00 p.m., **January 30, 2020**.

A Mandatory Pre-Proposal Meeting and Site Walk to discuss the Project will be held at 10:00 a.m., local time, DECEMBER, 11, 2019 at the Pleasant Grove Wastewater Treatment Plant, 5051 Westpark Drive, Roseville, CA 95747. Attendance (in-person) is mandatory and will disqualify a Proposer from the Proposal process if not attended. Virtual/or conference call-in shall not qualify as attendance. A sign-in sheet will be available up until commencement of the pre-proposal meeting only. Attendance by subcontractors is not mandatory, but all interested prospective subcontractors are encouraged to attend.

Said Proposals will be evaluated and results will be made public after completion of the negotiation process with the selected contractor. The City reserves the right to reject any or all Proposals and to waive any informalities or irregularities in any Proposal or in the proposal process.

Date

Janice Gainey, Senior Engineer,
Environmental Utilities

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IMPORTANT!!!

The City is not responsible for misdelivered Proposals, and the Proposer is strictly liable for its chosen method of delivery. It is the Proposer's sole responsibility to make sure that Proposals arrive at the proper location. Any Proposal which does not actually arrive in the City Clerk's Office by the RFP due date and time will be rejected as non-responsive, even if properly addressed or delivered to another City Department.

Your Proposal **MUST** be addressed and delivered as follows:

**City of Roseville
Attn: City Clerk Department
311 Vernon Street
Roseville, CA 95678**

The Proposer is also directed to include the attached "Sealed Proposal" label on the outside of the package or envelope so that it is visible when delivered to the City. See Attachment 17 for "Sealed Proposal" label.

City of Roseville RFP

PREVAILING WAGE NOTIFICATION

This is a prevailing wage project. Accordingly, all prevailing wage and fair employment laws and regulations shall be adhered to. For prevailing wage contracts over \$25,000.00, copies of certified payroll must be submitted with invoices. Prevailing wage rates may be obtained from the Department of Industrial Relations and/or the following website address:

<http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>

City of Roseville RFP

DEPARTMENT OF INDUSTRIAL RELATIONS CONTRACTOR REGISTRATION NOTIFICATION

No contractor or subcontractor may be listed on a Proposal for or work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. The Contractor shall provide proof of current registration with the Department of Industrial Relations for both itself and all listed subcontractors with their Proposal. The Contractor is hereby notified that this Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

<https://www.dir.ca.gov/Public-Works/Contractor-Registration.html>

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WEST SIDE TANKS AND PUMP STATION PROJECT
VOLUME 1: REQUEST FOR PROPOSALS

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WEST SIDE TANKS AND PUMP STATION PROJECT

VOLUME 1: REQUEST FOR PROPOSALS

1.0 INTRODUCTION

The City of Roseville (hereinafter “City”), is soliciting Proposals for the West Side Tanks and Pump Station Project (WST-PS). This will be a competitive negotiation process. Qualified individuals, firms, contractors, consultants or entities (hereinafter “Contractors” or “Proposers”), that meet the requirements set forth in this Request for Proposals (hereinafter “RFP”) and are capable of providing the services requested are encouraged to participate.

1.1 CITY OVERVIEW

The City of Roseville is an incorporated city with a population of more than 122,000 residents, located in Placer County off of Interstate 80, approximately 16 miles northeast of Sacramento, California. The City of Roseville is a Charter city operating under the City Council/City Manager form of government.

1.2 BACKGROUND

Projected growth for the western portion of the City’s service area requires additional water distribution facilities to be constructed to support water supply to the new developments within the City’s Pressure Zone 4 (PZ4) service area. Storage reservoirs and associated pumping facilities were identified as infrastructure required to service these new developments within the City’s West Roseville Specific Plan Area, as well as new growth areas that have been (and future growth areas that will be) incorporated into the City’s service area.

In 2005, the City initiated a project to construct these facilities. Preliminary Design Report (PDR) was completed in 2007, construction documents for the reservoirs and pumping station facilities, were completed in 2008. Prior to bidding the project, the City made a decision to put the project on hold, due to the slowdown in residential and commercial growth. In 2015 with growth patterns on the rise, the City’s Environmental Utilities Department (EUD) resumed work on the project. A review and update to the PDR was conducted resulting in changes due to new codes, recommendations on project phasing and options for moving the project into construction.

Phase 1 - Site Grading Improvements (Completed)

Geotechnical investigation conducted in 2007 revealed that some portions of the site had soils that were unsuitable for construction of facilities such as buildings, storage tanks, and paving. Phase 1 completed initial excavation to remove unsuitable soils from the site and initial site grading.

Phase 2 – Engineering Design (Ongoing)

Phase 2 Engineering Design of the facilities identified in the PDR and updated PDR was completed by Water Works Engineers and the City’s Environmental Utilities Department.

Phase 2 – Construction (scope of this RFP)

A Design-assist contracting agreement is being used to construct the West Side Tank and Pump Station Project (Project) which includes, but is not limited to, Construction of two (2) new six (6) million gallon pre-stressed concrete water storage tanks, a new concrete masonry unit (CMU) block Booster Pump Station building and equipment, hydropneumatic tank, site grading and

paving, storm water treatment basins, tank valve vault, electrical site work, 1,500 kW standby diesel generator and fuel tank, Electrical switchgear, Instrumentation and Controls, Contractor Design-Assist Responsibilities, and other structural, mechanical and electrical ancillary systems. Reference Section 5-Scope of Services.

The City has retained the services of Water Works Engineers (Architect/Engineer) to provide design services, engineering services during construction, and construction management services for this project.

Due to the public impact, visibility, complexity, and critical importance of this Project, the City will use a competitive, best value process for procurement of the services and work required to complete the construction of the Project. The Design-Assist Guaranteed Maximum Price (GMP) with shared savings contract delivery method, will be used for the WST-PS project's delivery. Contractor selection will be conducted utilizing this Request for Proposal (RFP) procurement and a best value evaluation, followed by the City's Contract award process.

- All Prospective Proposers should determine if they meet minimum qualifications before submitting a Design-Assist Proposal. Refer to Section 5 of this RFP for minimum contractor qualification requirements.
- The estimated construction value of the Project is between \$21,000,000 and \$23,000,000.
- The City intends to achieve Final Completion of this Project by September 2022.

1.3 KEY ACTION DATES

The following represents the tentative schedule for this RFP. Any change in the scheduled dates for the Pre-Proposal Conference, Deadline for Final Questions, or Proposal Submission Deadline will be advertised in the form of an addendum to this RFP. The schedule for the evaluation process and other future dates may be adjusted without notice.

Table 1: Key Action Dates

Event	Date
RFP Released by the City	11/15/19
Pre-Proposal Conference or Job Walk	12/11/19
Deadline for Final Questions	1/13/20
City Responses to Written Questions	1/24/20
Proposal Submission Deadline	1/30/20
Submit Key Subcontractor Information by*	2/06/20
Anticipated Contractor Interviews as needed	2/25/20
Anticipated Contract Negotiations	02/26/20-03/20/20
Anticipated Contract Approval by City Council	05/06/20
Anticipated Notice to Proceed	05/13/20
Anticipated Final Completion	09/25/22

*Key Subcontractor Information (those subs with $\geq 5\%$ of GMP): within five (5) business days of Proposal due date. Tab E provides definition of "Major" and "Key" subcontractors and requirements of proposal submittals for these subcontractors.

2.0 AVAILABLE INFORMATION

2.1 EXAMINATION OF CONTRACT DOCUMENTS

The Contract Documents consist of:

- VOLUME 1 – Request of Proposals (this document) and all of the required forms and attachments.
- VOLUME 2 – Agreement
- VOLUME 3 – Technical Specifications
- VOLUME 4 – Drawings

Any Proposer planning to submit a Proposal is responsible for examining with appropriate care the complete Contract Documents and all Addenda, and is also responsible for informing itself with respect to all conditions, which might in any way affect the cost or the performance of the Work. Failure to do so will be at the sole risk of the Proposer, and no relief shall be given for errors or omissions by the Proposer. The submission of a Proposal shall constitute an acknowledgment upon which City shall rely on as a confirmation that the Proposer has thoroughly examined and is familiar with the Contract Documents and that the Proposer has waived any objections or contentions regarding the Contract Documents and/or the Proposal submission requirements. The failure or neglect of a Proposer to receive or examine any of the Contract Documents shall in no way relieve it from any obligation with respect to its Proposal or to the Agreement. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any Contract Documents.

2.2 SUPPLEMENTAL INFORMATION AVAILABLE TO PROPOSERS

Geotechnical Report

A subsurface investigation has been conducted at the site of the Work. The subsurface investigation and geotechnical report(s) were developed for planning and design purposes only, and as such may not include necessary information for, any or all, construction related activities including, but not limited to, excavations, sheeting, shoring, bracing, boring and dewatering. The Contractor may not make claim against City or any of City's Consultants with respect to the completeness of this investigation and geotechnical report(s) for Contractor's purposes with respect to the means, methods, techniques, sequences and procedures employed by Contractor, and safety precautions and programs incident thereto.

The resulting geotechnical report with the records of borings made at the Project site is titled: Geotechnical Report for West Side Tank & Pump Station Project Phase 2, Roseville, California dated January 9, 2019 prepared by Bajada Geosciences, Inc.

An electronic copy of the geotechnical report will be posted on the City of Roseville's Public Purchase website at: <https://www.publicpurchase.com/>. This geotechnical report is not part of the Contract Documents and is made available solely for the convenience of the Proposer and Contractor.

It is expressly understood and agreed by Proposer that neither the City nor the Engineer assume any responsibility whatsoever with respect to the sufficiency or accuracy of the investigations thus made, the records thereof, or of the interpretation set forth therein or made by the Engineer in their use thereof and there is no representation, warranty or guarantee, either express or implied, that the conditions indicated by such investigations or records thereof are correct or representative of those existing throughout such areas or any part thereof, or that unanticipated developments may not occur or that materials other than, or in proportions different from, those indicated may not be encountered.

When a log of test borings showing a record of the data obtained by the Engineer's investigation of the subsurface conditions is made available to the Proposers and Contractor, it is expressly understood and agreed by Proposers and Contractor that said log of test borings does not constitute a part of the Contract Documents, represents only the opinion of the Engineer as to the character of the materials encountered in the test borings, is made available only for the convenience of Proposers, and its use is subject to all of the conditions and limitations set forth in this RFP. Water levels that may be shown on a log of test borings are valid only for the stated date of observation. The water level may change from season to season and from year to year.

The City disclaims responsibility for the Proposer's or Contractor's interpretation of data, such as, projecting or extrapolating from the test holes to other locations on the site of the Work, soil bearing values and profiles, and soil stability, as well as the presence, level, and extent of underground water for subsurface conditions during construction operations.

Information and data reflected in the Contract Documents with respect to Underground Facilities at or contiguous to the Site are based upon information and data furnished to Engineer by the City of such Underground Facilities or others, and City and Engineer disclaim responsibility for the accuracy or completeness thereof, unless it is expressly provided otherwise in the Contract Documents.

Storm Water Pollution Prevention Plan

As part of the water pollution control work, a Storm Water Pollution Prevention Plan (SWPPP) is required for this Contract. A Preliminary SWPPP has been prepared and will be posted on the City of Roseville's Public Purchase website at: <https://www.publicpurchase.com/>. This initial SWPPP is not part of the Contract Documents and is made available solely for the convenience of the Proposer and Contractor. The contractor will be required to revise and finalize the SWPPP as needed to comply with Construction General Permit Requirements and all other pertinent laws, rules, and regulations. Only a Qualified SWPPP Developer (QSD) is allowed to revise or amend the SWPPP. All revisions and Amendments must be accepted by the Legally Responsible Person (LRP).

2.3 INSPECTION OF PROJECT SITE AND PRE-PROPOSAL ACCESS TO THE SITE

In addition to examination of the Contract Documents, each Proposer shall become fully informed regarding all existing and expected conditions and matters, which could affect any Work or performance of any Work.

Prior to submitting a Proposal, it is the Proposer's responsibility to investigate the nature and location of Work and the general and local conditions, and particularly, but without limitation, with respect to the following: those affecting transportation, access, disposal, handling, haul route, and onsite and offsite storage of materials; water, and electric power; availability and condition of roads; climatic conditions and seasons; physical conditions at the Site, work area(s)

available as outlined in the Drawings, impact to the residents, stakeholders, and the Project areas as a whole; equipment and facilities needed preliminary to and during performance of the Work; and all other matters that can in any way affect performance of the Work. The failure of the Proposer to acquaint itself with any applicable condition will not relieve it from the responsibility for properly estimating either the difficulties or the costs of successfully performing the Work.

Any failure to fully investigate the Site or the foregoing conditions shall not relieve the Proposer from responsibility by estimating properly the difficulty or cost of successfully performing any Work. Neither City nor any of the City's representatives or agents assumes any responsibility for any verbal representation regarding all existing and excepted Site conditions.

Proposers seeking to conduct any additional invasive examination of the Site, such as potholing, must request Site access from the City in writing at least three (3) business days in advance. Requests should be emailed to the City's representative, Janice Gainey at JRGainey@roseville.ca.us. The location of any invasive testing will be subject to approval on behalf of the City and any other agencies with jurisdiction over such testing. Proposers may not conduct tests at the Project Site prior to obtaining City approval. Additionally, any such Proposer must execute a City furnished Access, Indemnity and Release Agreement and provide an insurance certificate as described therein by noon of the day prior to Proposer's approved Site visit. Once approved testing is complete, the Proposer must fill all trenches or holes, restore all pavement to match existing structural section, and otherwise clean up and restore the test site to its pre-test condition.

Proposers who intend only to observe site conditions and not conduct such examinations are not required to provide an executed Access, Indemnity and Release Agreement or insurance information. However, these Proposers must request Site access from the City in writing at least three (3) business days in advance.

If, during the course of its Site inspection, a Proposer finds conditions which appear to be in conflict with the Contract Documents, the Proposer may apply to City, in writing, for additional information and explanation and shall follow time guidelines as outlined in the Key Action Dates in Table 1. Questions shall be submitted no later than the last day to ask questions before the time specified for receiving the Proposals.

Submission of a Proposal by the Contractor shall constitute conclusive evidence that, if awarded the Agreement, the Contractor has relied upon and is relying on its own examination of (1) the Site of the Work, (2) access to the Site, (3) all other data and matters requisite to the fulfillment of the Work and on the Contractor's own knowledge of existing facilities on and in the vicinity of the Site of the Work to be constructed under the Agreement, (4) the conditions to be encountered, (5) the character, quality and scope of the proposed Work, (6) the quality and quantity of the materials to be furnished, and (7) the requirements of Contract Documents, and other related information made available to Proposers by the City. Any related information provided by the City is not intended to be a substitute for, or a supplement to the independent verification by the Proposer to the extent such independent investigation of site conditions is deemed necessary or desirable by the Proposer.

3.0 INSTRUCTIONS TO PROPOSERS

This RFP includes a description of the scope of services, Proposal requirements, and instructions for submitting your Proposal. Failure to follow these instructions may result in rejection of your Proposal.

3.1 Overview of Proposal Process

- ☐ Attend Mandatory Pre-Proposal Conference (Section 4).
- ☐ Evaluate Minimum Contractor Qualification Requirements (Section 6).
- ☐ Study all RFP documents and supplemental Information (Proposer's Responsibility).
- ☐ Prepare Proposal Parts 1 and 2. (Section 7).
- ☐ Follow Proposal Submittal Instructions (Section 8) to submit by due date and time.
- ☐ Within five (5) business days after Proposal due date; submit reference materials for Key Subcontractors as described in Section 7.1 (Tab E).

3.2 Communications Regarding this RFP and Project

To protect the integrity of the procurement process, by shielding it from undue influences prior to the recommendation of Project award, there are strict prohibitions regarding communications between potential Proposers and the City. From the publication of this RFP until the time of City's publication of the Notice of Intent to Award the following rules will apply:

- City's Representative for this project is:

Janice Gainey, P.E.
Senior Engineer
City of Roseville Environmental Utilities-Engineering
2005 Hilltop Circle
Roseville, CA 95747
JRGainey@roseville.ca.us.

- No oral representations or interpretations will be made to any Proposer as to the meaning of this RFP.
- Do not contact any other CITY staff or departments in regard to this project. Information provided by anyone other than the above contact may be invalid and Proposals which are submitted in accordance with such information may be declared non-responsive.
- Other than contact with the City's Representative, communication (of any form) with any City staff including its consultants and City Council members and their staff, is prohibited.
- If the City determines that the communication prohibition rules have been violated, the City may use this as grounds for Proposal rejection. Direct all inquiries regarding this RFP in writing to either: <http://www.publicpurchase.com>, or JRGainey@roseville.ca.us.

3.3 Revisions to Request for Proposals

In the event that it becomes necessary to revise any part of this RFP, written addenda will be issued. Any amendment to this RFP is valid only if it is in writing and issued by the City department issuing the RFP. No oral interpretations or answers shall bind the City unless confirmed by the City in writing.

All addenda for this RFP will be distributed to Proposers who have registered with PublicPurchase.com and who have downloaded the RFP. **It is the Proposer's sole responsibility to monitor this website for possible addenda to this RFP.** Failure of Proposer to retrieve addenda from this site shall not relieve him/her of the requirements contained therein. Additionally, failure of Proposer to return a signed addendum, when required, may be cause for rejection of his/her Proposal.

3.4 Escrow Documents

The highest ranked Proposer shall submit one copy of all documentary information generated in preparation of its GMP for this project within five (5) business days after receipt of Notice of Intent to Award from City. This material is hereinafter referred to as Escrow Proposal Documents (EPDs). Reference Section 11.31 – Escrow Proposal Documents.

3.5 Classification of Subcontractors

This RFP and Agreement (Volume 2 of Contract Documents) incorporate the following definitions of classifications of subcontractors. Each classification has separate requirements for qualifications that must be included in the Proposal.

“Subcontractor-MAJOR”. Major subcontractors are defined as a subcontractor who will perform greater than or equal to twenty percent (20%) of the GMP.

“Subcontractor-KEY”. Key subcontractors are defined as a subcontractor who will perform greater than five percent (5%) of the GMP.

“Subcontractor-LISTED”. Listed subcontractors are defined as a subcontractor who will perform greater than one half percent (>0.5%) of the GMP.

4.0 MANDATORY PRE-PROPOSAL CONFERENCE AND JOB WALK

A **mandatory** pre-proposal conference/job walk has been scheduled for **10:00 a.m., DECEMBER 11, 2019** at:

Pleasant Grove Wastewater Treatment Plant
5051 West Park Drive
Roseville, California

A sign-in sheet will be available up until commencement of the pre-proposal conference meeting only. Proposals from Contractors who do not sign the sign-in sheet and attend the **mandatory** pre-proposal conference/job walk will be rejected. Attendance by subcontractors is not mandatory, but all interested prospective subcontractors are encouraged to attend. The pre-proposal conference/job walk will begin at the designated start time. Any Proposals received

from Contractors who did not sign the sign-in sheet and attend the meeting and project walk-through will be returned to them unopened.

Except for the mandatory conference/job walk, no other access to the project site will be granted prior to the proposal submission date without prior approval from the City. See Section 2.3- INSPECTION OF PROJECT SITE AND PRE-PROPOSAL ACCESS TO THE SITE.

Interested firms will have an opportunity to submit questions regarding the requirements outlined in this RFP. In order to make the meeting more effective for all participants, attendees should read this document thoroughly prior to the meeting.

Substantial clarifications or changes required as a result of the meeting will be issued in the form of a written addendum to the RFP. A list of attendees will be distributed upon request.

5.0 SCOPE OF SERVICES

The Contractor shall furnish all labor, equipment, materials, and services specified for the Design-Assist and Construction of the improvements at the West Side Tank and Pump Station site. The design plans and specifications comprise the technical portions of the Project and are included Volumes 3 and 4 of the Contract Documents. They are:

1. VOLUME 3 – Technical Specifications (Attachment 22)
2. VOLUME 4 – Drawings (Attachment 23)

Contractor shall refer to the Construction Documents for detailed requirements related to construction sequencing, submittals, site access requirements, construction of temporary facilities, safety requirements, warranty, testing, and demolition requirements.

Please note that “Construction” documents are a subset of the “Contract” documents that are listed in Section 2.1.

5.1 CONSTRUCTION

The scope of the construction work is summarized below (not including administrative tasks such as submittal preparation, startup, testing, etc.):

Water Storage Tanks

- Over excavation beneath tanks and installation of mechanical stabilized earth (MSE) foundation improvement system to provide suitable subgrade conditions for tank construction.
- Construction of two (2) 6.0 MG at-grade pre-stressed concrete water storage tanks with flat concrete roofs. Each tank will be identically sized at 170 ft. diameter with 40 ft. sidewall height.
- Installation of two access hatches, roof vent, interior and exterior access ladders, and electric davit cranes at each tank.
- Installation of leak detection system with PVC liner and perforated piping.
- Installation of wall drain piping.

- Installation of downspouts from roof of each tank for rainwater collection.
- Installation of hydrodynamic tank mixing system in each tank.
- Installation of internal and external overflow piping and supports at each tank.
- Installation of sump in floor of each tank with drain piping and valves.
- Installation of water sample station at each tank.

Tank Valve Vault

- Construction of new cast-in-place concrete valve vault with structural supports and grating.
- Installation of seven (7) butterfly valves and two (2) check valves associated with tank inlet and outlet. This piping and valve arrangement allow the two tanks to be operated in parallel, in series, or independently taken offline for maintenance.

Pump Station

- Construction of 2,537 sq. ft. Concrete Masonry Unity (CMU) block Booster Pump Station building to house booster pumps, sodium hypochlorite storage and feed system, and electrical and control equipment.
- Installation of architectural canopies over exterior electrical switchgear and valve vault.
- Installation of coiling overhead door for vehicle access into pump room.
- Installation of evaporative cooling for pump room and air conditioning for electrical room.
- Installation of trench drains for building drainage and small diameter pipe routing.
- Installation of roof hatches over all pumps with winch operated rigging to allow operators to open hatches from ground level.
- Construction of valve vault outside of building for suction-side pump isolation valves.
- Installation of four (4) 250 hp vertical turbine booster pumps (3 duty plus 1 standby) set in below-grade suction barrels. Each pump shall have a design capacity of 3,800 gpm at 170 ft TDH.
- Installation of 16-inch electronic control valve for tank filling and pressure relief.
- Installation of piping, pipe supports, valves and appurtenances associated with pumping system.
- Installation of sample pump for tank outlet chlorine residual analyzer.
- Installation of 500-gallon dual contained sodium hypochlorite storage tank.
- Installation of skid-mounted progressive cavity sodium hypochlorite metering pumping system.
- Installation of two (2) emergency eyewash and shower systems with tepid water system.
- Installation of 2,000-gallon bladder-style hydropneumatic tank and associated piping, pipe supports, valves and foundation.

Electrical

- Coordination with electric utility and installation of electric service to site including transformer, conduit and wiring.
- Installation of 1,500 kW standby diesel generator, dual-contained fuel tank, load bank and access stairs and platforms.
- Installation of exterior switchboard at Booster Pump Station.
- Installation of interior automatic transfer switch, distribution sections, panelboard, transformer, control panel and security panel in electrical room of Booster Pump Station.
- Installation of two (2) 250 hp variable frequency drives and two (2) 250 hp reduced voltage soft starters in electrical room of Booster Pump Station.
- Installation of light fixtures on and in the Booster Pump Station and light poles throughout the site.
- Installation of all conduit, wire, supports, pull boxes, etc. to support the new system.

Instrumentation and Controls

- Installation of programmable logic controller (PLC) and control panel to monitor and control the new system.
- Installation of level measurement devices, ladder and hatch intrusion switches and power supply to davit cranes at each water storage tank.
- Installation of level measurement devices in tank valve vault.
- Installation of free chlorine residual analyzers for tank inlet and outlet sampling.
- Installation of pressure transmitter on pump discharge header.
- Installation of bi-directional 24-inch magnetic flowmeter for tank fill and pump discharge flow measurement.
- Installation of site access and security system, including fiber optic network tied into Pleasant Grove WWTP Administration Building.
- Installation of miscellaneous instrumentation.

Miscellaneous Site Work

- Installation of valve vault to tie into existing water distribution system with new 30-inch piping.
- Installation of 30-inch tank fill, 42-inch tank outlet and miscellaneous yard piping, including sewer and storm drain manholes and catch basins.
- Site grading and construction of curbs, gutters and paving.
- Construction of lined bioretention basins for storm water treatment prior to discharge to existing storm drain system.
- Construction of CMU block wall and chain-link fencing around site perimeter.
- Construction of steel fencing at main site entrance with automatic gate and single-leaf gate for pedestrian access.

- Relocating and connecting to existing recycled water distribution system, installation of irrigation system between Westpark Drive and new CMU block wall, planting shrubs and installing mulch.
- Installation of site erosion control measures.

5.2 DESIGN ASSIST

Based on the Final Design Submittal, and in accordance with the Contract Documents Article 2.1-Scope of Work (Volume 2 - Agreement), the Contractor is a Design-Assist Team member with responsibility to complete the following design assist activities. Coordination with other members of the Design-Assist Team will be required; the City, Engineer, Construction Manager and possibly other personnel that have regulatory or funding authority.

- Conduct a constructability review of the Final Design Submittal Drawings and Specifications, and submit comments and identified mitigation solutions to the City.
- Identify cost savings and added value alternative design/construction solutions, and submit to the City for evaluation.
- Develop detailed cost estimates for identified alternatives when requested by City for the City's evaluation.
- Identify construction sequencing and the impacts of the identified alternatives on the sequencing.
- Develop a detailed schedule and the impacts of the identified alternatives on the schedule.
- Participate in a cooperative partnership relationship with City, Engineer, and Construction Manager to develop a comprehensive construction plan to address project risk and minimize existing facility disruptions.
- Participate in up to eight (8) Final Design Coordination Meetings lasting up to four (4) hours each to present and work collaboratively to allow for issuance of the Project Drawings and Specifications for construction.

Note that the Engineer is the entity professionally responsible for the design of the Project. City acknowledges that Contractor is a general contractor and not an architect or engineer. Except with respect to any subcontractors of Contractor providing architectural or engineering services for the Project as design-build work, the Contractor's review of or input for any design documents, or Contractor's recommendation for any design concepts, is made solely in Contractor's capacity as a licensed contractor and not as a licensed design professional. Contractor is not responsible for any errors in the Engineer's design or failure of the design to comply with applicable laws, codes, rules and regulations, or lawful orders of public authorities. However, if Contractor observes any such nonconformity or errors it shall promptly notify City's Representative and the Engineer.

6.0 MINIMUM CONTRACTOR QUALIFICATIONS

Prospective Proposers interested in submitting Proposals for the WST-PS Project must meet minimum qualifications of experience, responsibility, responsiveness, safety, and financial stability. The minimum requirements are described in Section 7 – Proposal Requirements and Format, Section 9 – Evaluation

Criteria, and Section 12 – Attachments (Forms). The list below is provided as a self-assessment check list only and is not intended to completely describe the qualifications of a successful Proposal.

- ✓ Relevant project experience: Five projects of similar nature, scope, complexity, and size that your firm's team members have completed in the last ten (10) years. Relevant project experience may be met through combined pump station and tank projects or individual, but five representative projects for both types of work, individually, are required. See Attachment 5 – Firm's Qualifying Project Experience for additional information and requirements.
- ✓ Possess a valid and current California Contractor's license (Class A, General Engineering Contractor) and this license has not been revoked at any time in the last five (5) years.
- ✓ Registration with the California Department of Industrial Relations pursuant to California Labor Code Section 1725.5
- ✓ Have not had a surety firm complete a contract on the Prospective Proposer's behalf, or paid for completion because the Prospective Proposer's firm was default terminated by the project owner within the last five (5) years.
- ✓ Project Manager, Scheduler, and Job Superintendent (serving as on-site resident Superintendent and Contractor's authorized representative) are identified and qualifications met.
- ✓ Safety Supervisor, Tank Construction Superintendent, and Specialty Tank Prestressing Superintendent and/or Operator are identified, qualifications presented, and acknowledgement of conformance with qualification and experience requirements.
- ✓ Bonding Capacity is sufficient.
- ✓ Meet Insurance requirements.
- ✓ Current workers' compensation insurance policy as required by the Labor Code or is legally self-insured pursuant to Labor Code Section 3700 et. seq.
- ✓ Reviewed or audited financial statement with all accompanying notes and supplemental information for 2018 or later.
- ✓ During the last five (5) years, the Proposer's firm or any of its owners or officers have not been convicted of a crime involving the awarding of a contract of a government construction project, or the bidding or performance of a government contract.
- ✓ Contractor must self-perform at least 30% of the value of the work.
- ✓ Company is eligible to bid on or be awarded a public works contract, or perform as a subcontractor on a public works contract, pursuant to California Labor Code 1777.1 and Labor Code 1777.7.
- ✓ No conflict of interest; the Prospective Proposer shall warrant that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the Contract for the Project contained in this RFP.
- ✓ Prohibition against interest in more than one Proposal and Proposer collusion. Firms/Companies may be included as a subcontractor on multiple Proposals; however, Firm/Company may not submit a Proposal as a Prime Contractor if they are also identified as a subcontractor on other Proposals.

7.0 PROPOSAL REQUIREMENTS AND FORMAT

Each response to this RFP shall include the information described in this section. Provide the information in the specified order. Failure to include all of the information specified may be cause for rejection. Additional information may be provided, but should be succinct and relevant to the goals of this RFP. Any additional information that a proposing Contractor wishes to include that is not specifically requested should be included in an appendix to the Proposal.

There are two parts to the Proposal. Part 1 is the Proposer's Technical Proposal and Required Proposal Form Attachments. Part 2 is the Proposal Guaranteed Maximum Price (GMP), Cost Information, Proposal Guarantee, and Proposing Company's financial information. Part 1 should be submitted in a separate sealed envelope from Part 2's sealed envelope. Both sealed envelopes shall be submitted simultaneously before the Proposal submission deadline.

Proposal Development. Contractors are encouraged to keep the proposals brief and to the point, but sufficiently detailed to allow evaluation of the Proposer's: project understanding; approach to the design-assist methodology; strategy/approach for execution of the scope of work, qualifications and expertise of the team; quality control processes, and safety record. Unauthorized conditions, omissions, limitations or provisions attached to a proposal will render the proposal non-responsive and may cause its rejection.

Proposers are warned against making erasures or alterations of any kind, without initialing each and every such change. Proposals that contain erasures or irregularities of any kind, without such initialing, or omissions, may be rejected.

The Proposal should be bound or contained in a loose leaf binder. Document pages shall be 8-1/2 inches by 11 inches in size or folded to such a size. Use section dividers, tabbed in accordance with this section as specified below.

There are page limits for specific sections of the Proposal which are indicated below. The following sections do not have page limits: cover sheet; index sheets (tab dividers), table of contents, references, signature requirements, safety record, resumes (in the appendix), financial status documents, and cost proposal.

7.1 PART 1 –TECHNICAL PROPOSAL

Proposer shall submit all forms and information required as described in Section 7.1 in a sealed envelope (or container) labeled as Part 1. See Section 8 for additional labeling and delivery instructions.

The following sections shall be included within Part 1 of the Proposer's submittal. Use section dividers (Tabs) as specified below.

COVER LETTER

- ☐ Include a Cover Letter with, at a minimum, the following information:
 - Title of this RFP
 - Name and Mailing Address of Firm (include physical location if mailing address is a PO Box)
 - Contact Person, Telephone Number, Fax Number, and Email Address

TAB A: Project Understanding (30 Points)

Include the following items in Tab A. Page Limit: 6. Maximum Score: ~~30~~40 points.

- ☐ Based on the available information, supplemental research, field observations, and experience with similar projects, provide a narrative describing your understanding of the services requested in this RFP, your general approach and any major challenges to achieving the City's stated goals. Include any issues that you believe will require special consideration for this project. City staff will assess your understanding of all aspects of the project based on the narrative.

TAB B: Project Approach (60 Points)

This tab includes the proposers approach to the Project's Scope of Work, special project considerations and proposed work schedule.

Include the following items in Tab B. Page Limit: 12 (not counting work schedule). Maximum Score: 60 points.

- ☐ Provide a detailed narrative of your firm's approach to the successful implementation of this project. Include thorough discussions of methodologies you believe are essential to accomplishing this project. Also identify any unique approaches or strengths that your firm may have related to this project.
- ☐ Provide proposed work schedule to accomplish all of the required tasks within the desired timeline. Identify the staff who would be assigned to each scheduled task, including sub-consultants and sub-contractors.

TAB C: Project Cost Reduction Opportunities (20 Points)

Include the following items in Tab C. Page Limit: 3. Maximum Score: 20 points:

- ☐ Based on the preparation of your firm's Technical Proposal and your firm's/team's construction experience with similar projects, identify items that you believe can improve the existing plan for the new facilities while also potentially creating savings to reduce the cost to construct the Project and/or operational costs of the new and/or retrofitted facilities. Cost savings ideas should not simply reduce scope, or in any way impair the essential functions or characteristics of the Project, including but not limited to, service life, economy of operation, ease of maintenance, desired appearance, or design and safety standards. Cost savings ideas should not materially change any provisions found in the Agreement. DO NOT provide any estimates of potential cost savings in either Part 1 or Part 2 of Proposal.

TAB D: Contractor's Minimum Qualifications and Certifications (Pass/Fail)

The City wants to ensure that the successful Contractor has the necessary facilities, ability, experience, and financial resources to provide the services specified herein in a satisfactory and timely manner. Items included in this Tab D are all forms attached to this RFP, are scored as Pass/Fail, and do not count toward page totals. A Passing score is given only if 1) the item required is provided in the proposal, 2) the item required and provided in the proposal is completely filled out by proposer and executed (signed) where appropriate, and 3) meets the requirements for experience demonstration and/or qualifications.

Include the following items in Tab D. This section is not awarded a point score but all items must be completed and submitted to be considered a responsible Proposer therefore Tab D is scored as Pass/Fail.

- ☐ Attachment 1 – Proposer's Certification and Evidence of Authority to sign.
- ☐ Attachment 2 – Certification of Proposer's Experience and Qualifications. Include any supplemental information to Attachment 2 in the Appendix for Part 1 (Tab L).
- ☐ Attachment 3 - License Information. Attached form requires information on Contractor Licenses, business license, and DIR registration.
- ☐ Attachment 4 - Corporate Tree. If the company, corporation, LLC, or other entity seeking to prequalify a parent, subsidiary, in a holding company relationship, or otherwise an affiliate of any other construction company, corporation, LLC, or other entity, provide on a separate page (labeled as Attachment 4), a complete corporate tree showing percentage of ownership.

TAB E: Project Team Qualifications and Experience (~~40-50~~ Points)

The City wants to ensure that the successful Contractor has the necessary project experience and expertise to provide the services specified herein in a satisfactory and timely manner.

If a Proposer subcontracts out any work items and the expected value of subcontractor's work is greater than twenty percent (20%) of the GMP, that subcontractor is considered a **"MAJOR"** subcontractor. Major subcontractors' qualifying project experience and safety record information must be submitted **with Part 1 of the Proposal package**.

If a Proposer subcontracts out any work items and the expected value of subcontractor's work is greater than five percent (5%) of the GMP, that subcontractor is considered a **"KEY"** subcontractor. Key subcontractors' qualifying project experience and safety record may be included either **with Part 1 of the proposal package OR may submitted within five (5) business days after the deadline to receive Proposals**. If submitted after Proposal due date, follow the same delivery instructions that are given in Section 8 and mark this envelope with additional label, "Key Subcontractors".

Include the following items in Tab E. Maximum Score: ~~40-50~~ points:

- ☐ One-page organizational chart showing all Major and Key Project team members and identification of their roles.
- ☐ Summary Statement of your team's qualifications and experience for performing the requested services. Include identification of team members, their roles and

responsibilities, qualifications, and geographic locations. Include discussion of the qualifications of the:

- Project Manager
- Job Superintendent
- Tank Construction Superintendent
- Specialty Tank Pre-stressing Superintendent and/or Operator
- Quality Control Manager
- Scheduler
- Safety Manager.

This summary statement has a page limit of six (6) pages. Full resumes may be included in the appendix for part 1 (Tab L).

- ☐ Attachment 5 – Qualifying Project Experience. Proposer, Major, and Key Subcontractors must each complete Attachment 5 (one for each project) to provide relevant and qualifying experience. Minimum numbers of qualifying projects must be provided for each as described in the instructions for Attachment 5.
- ☐ Attachment 6 - Project Manager’s Project Experience. There are minimum project experience requirements for the proposed Project Manager and a requirement that the Project Manager will be fully dedicated (100% assigned) to this project and present on-site during construction. The Project Manager may also service as Job Superintendent (serving as on-site resident Superintendent and Contractor’s authorized representative). Complete Attachment 6 for the proposed Project Manager.
- ☐ Attachment 6 – Significant Subcontractor Staff. If a Project Manager is not serving as the Tank Construction Superintendent and/or Specialty Tank Prestressing Superintendent/Operator as described in Technical Specification Section 03314, then those individuals serving in these roles are considered Significant Subcontractor Staff and must furnish the same qualifying project experience as the Project Manager as detailed above under Project Manager Experience.
- ☐ Attachment 6 - Resumes of Major Subcontractors’ on-site superintendent/general foreman or project manager that will be assigned to this Project.
- ☐ Resumes of Key subcontractors’ on-site superintendent/general foreman or project manager that will be assigned to this Project.

TAB F: Subcontractor List and Assurance of Designated Project Team (Pass/Fail)

Include the following items in Tab F. This section is not awarded a point score but all items must be completed and submitted to be considered a responsible Proposer therefore Tab F is scored as Pass/Fail.

- ☐ Attachment 7 - Subcontractor List. Complete this form with all subcontractors that will perform work greater than one half of one percent (> 0.5%) of the GMP amount. This form attachment also requires subcontractor’s license information and DIR registration information.

- ☐ Attachment 8 - Assurance of Designated Project Team. Proposer shall give assurance that the designated project team, including sub-consultants or sub-contractors (if any), are in fact assigned to this project. Departure or reassignment of, or substitution for, any member of the designated project team, sub-consultant(s) or sub-contractor(s) shall not be made without the prior written approval of the City.

TAB G: Construction Scheduler Qualifications (20 Points)

Include the following items in Tab G. Maximum total score for all items in Tab G is 20 points

- ☐ Resume of Proposed Project Scheduler. Provide the resume of the person who will prepare your Baseline Critical Path Method (CPM) Schedule and all required updates and progress reports for this Project. Your assigned person responsible for all CPM schedules and progress reports may be the same person as the full-time Project Manager provided you certify the Project Manager has the scheduling qualifications, scheduling experience and time to produce acceptable schedules and reports in a timely manner.
- ☐ Please provide an example CPM Schedule produced by the individual selected to prepare the Baseline CPM (Scheduler) for a project of similar size and complexity. Example project schedule may be for the proposed West Side Tanks project, a previous project, or generic example. Schedule shall be submitted on 11x17 paper.

TAB H: Safety Program and Records (30 Points)

Include the following items in Tab H. Maximum total score for all items in Tab H is 30 points.

- ☐ Provide an electronic copy of your Company's overall Safety Program for all company operations in PDF format as an appendix on the USB flash drive. No page limit.
- ☐ Resume of the Safety Manager who will be assigned to the Project.
- ☐ Attachment 9 – SAFETY RECORD must be completed by Proposer and any subcontractor whose expected value of work is greater than five percent (5) of the GMP.

TAB I: Quality Control Program (30 Points)

Include the following items in Tab I. Maximum total score for all items in Tab I is 30 points.

- ☐ Provide a descriptive outline of your planned quality control (QC) program for this Project. This QC program should integrate and compliment the testing and inspection requirements found in the Contract Documents. Include a description of how QC would be managed on this project. Page Limit: 3

- ☐ Resume of your proposed QC Manager for this Project. The QC Manager can be the same person as the full-time Project Manager (do not submit a second copy of resume in this case).

TAB J: Other Required Statements/Documents

All Items in Tab J are scored as Pass/Fail and must be included in the Proposal. A Passing score is given only if 1) the item required is provided in the Proposal, 2) the item required and provided in the Proposal is completely filled out by proposer and executed (signed) where appropriate, and 3) meets the requirements for experience demonstration and/or qualifications.

Include the following items in Tab J.

- ☐ Attachment 10 –No Conflict of Interest Declaration. Complete the attachment to certify absence of a conflict of interest. Section 11 General Terms and Conditions, Paragraph 11.4 provides additional requirements for Attachment 10.
- ☐ Attachment 11 –Non-Collusion Declaration. Proposers shall execute the Attachment to certify Non-Collusion on the RFP. Reasonable grounds to believe that any individual, partnership, corporation, or combination is interested in more than one Proposal in response to this RFP will cause rejection of all Proposals in which that individual, partnership, corporation, or combination is interested. (Reference Section 11.6) Additionally; Firms/Companies may be included as a subcontractor on multiple Proposals; however, Firm/Company is restricted from submitting a Proposal as a Prime Contractor if they are also identified as a subcontractor on other Proposals.
- ☐ Attachment 13 - Iran Contracting Act Disclosure Form.
- ☐ Attachment 14 – Statement indicating your ability and agreement to fulfill the indemnification and insurance requirements contained in the sample CONTRACT. Section 11 General Terms and Conditions, Paragraph 11.7 provides additional requirements for Attachment 14. Please note that actual certificates of insurance are not required as part of your Proposal.
- ☐ Attachment 19 – Proprietary Information Statement. Statement that nothing contained in the submitted proposal will be proprietary, OR a statement that Proposer desires to claim a privilege against public disclosure for a trade secret or other proprietary information. Part 1 of the Proposal should only contain the short statement in Attachment 19 that there is not/ or is, proprietary information. If a claim for privilege against public disclosure is submitted it should be included in Part 2 of the Proposal. Section 11 General Terms and Conditions, Paragraph 11.23 provides additional requirements for Attachment 9. Sections 7.2 and 8.1 provide instructions for submitting Attachment 19.

TAB K: Exceptions

Include the following items in Tab K.

- ☐ Describe any and all proposed exceptions, alterations or amendments to the Scope of Services or other requirements of this RFP, including the Sample

AGREEMENT (Volume 2 of the Contract Documents). The nature and scope of your proposed exceptions may negatively affect the evaluation of your submittal and the City's determination of whether it is possible to successfully negotiate a contract with your firm. Section is not scored but must be included.

TAB L: Part 1 Appendix

Include additional information and documents in this section as needed. May include, but not limited to:

- ☐ Resumes of significant staff and Subcontractors.
- ☐ Miscellaneous attachments as needed.

7.2 PART 2 - COST PROPOSAL and FINANCIALS

Proposer shall submit all forms and information required as described in Section 7.2 in a separate sealed envelope (or container) labeled as "Part 2". See Section 8 for additional instruction for delivery and labeling.

The following sections shall be included within Part 2 of the Proposal submittal. Use section dividers (Tabs) as specified below.

PROPRIETARY INFORMATION LETTER (OPTIONAL)

- ☐ If a Proposer desires to claim a privilege against public disclosure for a trade secret or other proprietary information, such information must be submitted with the Proposal in a separate envelope marked "confidential." Reference Section 11.23 for more information. This confidential envelope should be included in Part 2 Envelope (or container).

TAB M: Guaranteed Maximum Price, Cost of Work and Fee (60 Points)

- ☐ Attachment 15 – Guaranteed Maximum Price, Cost of Work, and Fee. Provide a statement of total proposed guaranteed maximum price and additional cost proposal information by completing the form and tables in this attachment. Page Limit: 10 (not including additional pages as needed).

TAB N: Proposed Shared Savings (10 Points)

- ☐ Attachment 16 – Proposed Shared Savings. Page Limit: 1

TAB O: Financial Status (Pass/Fail)

The City wants to ensure that the successful Contractor has the necessary facilities, ability, experience, and financial resources to provide the services specified herein in a satisfactory and

timely manner. Items included in this Tab O will be reviewed to determine adequate financial resources of the Proposer. A Passing score is given only if 1) the item required is provided in the proposal, 2) the item required and provided in the proposal is completely filled out by proposer and executed (signed) where appropriate, and 3) demonstrates adequate financial stability and resources.

Include the following in Tab O:

- ☐ Copy of Reviewed or Audited Financial Statement (2018) with accompanying notes and supplemental information. A financial statement that is not reviewed or audited is not acceptable. No page limit.
- ☐ Proposer must provide a letter from its Surety or Surety Broker, which certifies that Proposer's current bonding capacity is sufficient for this Work based on the Proposal and the terms of the Agreement. No page limit.

8.0 SUBMITTAL INSTRUCTIONS

8.1 Submittal Package Structure and Contents

There are two parts to the Proposal. Part 1 is the Technical Proposal. Part 2 is the Cost Proposal and Financial data.

Each part must be labeled appropriately, sealed, and submitted simultaneously before the Proposal submission deadline.

Your submittal packages shall be sealed and include the following:

Envelope 1 (or Container 1)

- One (1) original and eight (8) printed copies of your Part 1 – Firm's Qualifications and Technical Proposal (Reference Section 7.1 for contents); and
- Two (2) electronic copies of your entire Part 1 proposal in PDF format on flash drives or other electronic media

Envelope 2 (or Container 2)

- One (1) original and one (1) printed copy of your Part 2 – Cost Proposal and Confidential Financial data.
- Two (2) electronic copies of your entire Part 2 in PDF format on two separate flash drives or other electronic media (one copy on each device).
- Optional "Confidential" Envelope. If a Proposer desires to claim a **privilege against public disclosure** as described in Section 11.23, for a trade secret or other proprietary information, such information must be submitted with the Proposal in a separate envelope marked "confidential." This confidential envelope should be included in Part 2 Envelope (or container). Only one Confidential Envelope should be submitted. City Staff will ensure that this Confidential Envelope is reviewed by City Attorney's office for future

handling. Submit in the Original Part 2 only (not in additional copy and not electronically).

8.2 Proposal Deadline

Proposals shall be submitted not later than the date and time indicated on the cover page of this RFP.

Postmarks will not be accepted and Proposals received after the deadline date and time will not be opened and will be returned to Proposer. No exceptions.

8.3 Proposal Delivery Address

Proposals shall be submitted ONLY to:

City of Roseville
Attn: City Clerk Department
311 Vernon Street
Roseville, CA 95678
Re: Design-Assist and Construction of the
West Side Tanks and Pump Station Project
Attention: Janice Gainey, Senior Engineer, Environmental Utilities-Engineering

8.4 Faxed and/or emailed Proposals will not be accepted.

8.5 Delivery Responsibility

The City shall not be responsible for Proposals delivered to a person or location other than that specified herein.

8.6 Labeling

Each submittal envelope/container (Part 1 and Part 2) must include the City's "Sealed Proposal" label. In addition to the City's sticker, clearly mark each envelope as either Part 1 or Part 2. See Attachment 17 for "Sealed Proposal" label.

8.7 Minor Irregularities

The City reserves the right to waive minor defects and/or irregularities in Proposals, and shall be the sole judge of the materiality of any such defect or irregularity.

9.0 EVALUATION CRITERIA and PROPOSAL SCORING

A selection committee consisting of City employees will evaluate and rank the Proposals received. The City may conduct such reference checks as the City deems necessary to establish the responsibility, qualifications, and financial ability of the Proposer's team, to perform the Work. **Table 2 – PROPOSAL SCORING** shows either the maximum points available in each category or that the category will be scored on a "Pass/Fail" basis.

Pass/Fail Scoring. For Proposal items that receive a failing score (for any of the items identified as scored on a “Pass/Fail” basis) the City will treat the Proposal as nonresponsive and will reject it on that basis. A Passing score is given only if 1) the item required is provided in the Proposal, 2) the item required and provided in the proposal is completely filled out by Proposer and executed (signed) where appropriate, and 3) meets the requirements for experience demonstration and/or qualifications.

Points Scoring. Proposal items that are scored will be awarded points determined by the selection committee based on the best value to City using all information provided by the Proposer in its Proposal and other investigations by CITY as described in this RFP.

Points Scoring Formulas for Part Two (Envelope 2) of the Proposal.

The Part Two scoring will order the Proposals received and score each using the following formulas:

- Total Proposed GMP Score
 - Lowest GMP receives 40 Points
 - GMP within 2% of Lowest GMP receives 40 Points
 - GMP more than 2% and less than or equal to 4% of Lowest GMP receives 30 points
 - GMP more than 4% and less than or equal to 6% of Lowest GMP receives 20 points
 - GMP more than 6% and less than or equal to 8% of Lowest GMP receives 10 points
 - GMP greater than 8% of Lowest GMP receives 0 Points
- Total On-Site Management & Administration Positions Hourly Rate Score = Maximum Points x Lowest Average Hourly Rate / Proposer’s Average Hourly Rate
- Proposed Total Fee Mark-Up for General Overhead & Profit Score = Maximum Points x Lowest Fee / Proposer’s Fee
- Proposed Shared Savings = Maximum Points x Proposer’s % to Owner / Highest % to Owner

Table 2: Proposal Scoring

Tab	Evaluation Category	Maximum Score
	Part One - Technical Proposal and Proposal Forms	
A	Project Understanding	40
B	Project Approach and Proposed Work Schedule	60
C	Project Cost Reduction Opportunities	20
D	Contractor’s Minimum Qualifications and Certifications	Pass/Fail
	Attachment 1 – Proposer’s Certification	
	Attachment 2 – Minimum Experience And Qualifications Requirements	
	Attachment 3 – Licenses and DIR Registration	
	Attachment 4 – Corporate Tree (if applicable)	
E	Project Team Qualifications and Experience	50
	Organizational Diagram	
	Statement of team’s qualifications and experience	
	Attachment 5 – Qualifying Project Experience (Proposer, Major and Key Subs)	

Tab	Evaluation Category	Maximum Score
	Attachment 6 - Project Manager's Project Experience (Proposer, Major and Key Subs)	
	Resume of Major Subcontractors' on-site superintendent	
	Resume of Key Subcontractors' on-site superintendent	
F	Subcontractor List and Assurance of Designated Project Team	Pass/Fail
	Attachment 7 - Subcontractor List	
	Attachment 8 - Assurance of Designated Project Team	
G	Construction Scheduler Qualifications	20
	Resume of Proposed Project Scheduler	
	Example of CPM Schedule	
H	Safety Program and Record	30
	Attachment 9 – SAFETY RECORD of Proposer, Major and Key Subs	
	Safety Manager Resume	
	Safety Program	
I	Quality Control Program	30
	Descriptive Narrative of QC Program and Implementation	
	Quality Control Manager Resume	
J	Other Required Statements/Documents	Pass/Fail
	Attachment 10 – No Conflict of Interest Declaration	
	Attachment 11 – Non-Collusion Declaration	
	Attachment 13 – Iran Contracting Act Disclosure	
	Attachment 14 – Indemnification and Insurance Requirements	
	Attachment 19 – Proprietary Information Statement	
K	Exceptions	Pass/Fail
	Part 1 Maximum Score	250
	Part Two - GMP, Cost Information and Proposal Guarantee	
	Proprietary Information Letter (Optional)	N/A
M	Attachment 15 - Guaranteed Maximum Price, Cost of Work, and Fee	
	Proposed Guaranteed Maximum Price	40
	Total On-Site Management & Administrative Positions Hourly Rate Points	10
	Proposed Total Fee Mark-Up for General Overhead & Profit Points	10
N	Attachment 16 - Proposed Shared Savings	10
O	Financial Status	
	Audited 2018 Financial Statement	Pass/Fail
	Bonding Capacity Letter	Pass/Fail
	Part 2 Maximum Score	70
	Total Parts 1 and 2	340320

Tab	Evaluation Category	Maximum Score
	Part 3 (OPTIONAL)Interviews if needed	20
	Total Possible Maximum Score	330 <u>340</u>

10.0 SELECTION PROCESS

10.1 Award of Contract

Award of the RFP shall be made to the responsible Proposer whose Proposal is determined, through a formal evaluation panel process, to be the most advantageous to the City after the evaluation panel has taken into consideration the evaluation factors set forth in the RFP. A master score sheet shall be created based on the evaluation panel's initial evaluation. Proposals shall be scored according to the criteria stated in the RFP.

10.2 Selection Committee

If City determines that a Proposer cannot be selected based solely on the Proposals submitted, the top ranked Proposers submitting the most highly rated technical Proposals may be invited for interviews with the selection committee. The Proposer's proposed Project Manager must be present at the interview; up to three (3) others may attend at the discretion of the Proposer. After this process, the Proposers will be ranked and notified.

The City reserves the right to make a selection after review of the Proposals without oral interviews; therefore, the Proposal should be submitted initially on the most favorable terms that the contractor might propose.

10.3 Contract Negotiation

A contract will be negotiated with the Proposer considered the best value meeting the City's need for this project. In the event a mutually satisfactory Contract cannot be negotiated with the City's first choice, negotiations may be terminated and commenced with the Proposer considered next best in meeting the City's needs for this particular project.

10.4 Contract Execution

The selected Proposer will be required to execute a City prepared Contract. The Contract may further refine the scope of services and will provide for the terms and conditions of employment.

10.5 City Council Approval

The award of any contract is expressly contingent upon City Council approval and the availability of funds. City staff may not legally bind the City to a contract.

10.6 City's Right to Reject All Proposals

The City reserves the right to reject any or all Proposals, or to waive minor irregularities in said Proposals, or to negotiate minor deviations with the successful Proposer. In the case of differences between written words and figures in a Proposal, the amount stated in written words

shall govern. In the case of a difference in unit price versus the extended figure, the unit price shall govern.

10.7 Notice of Intent (NOI)

Once a decision has been made to award the contract, then a formal notice of the intent to award to the recommended Proposer(s) shall be made by the City.

10.8 License, Permits, and Certifications

A City of Roseville business license as well as all applicable permits, licenses and certifications required by local, state or federal law are required before the award of Contract.

Contractors are not required to have a City of Roseville Business license to submit a proposal; however, it will be required before executing a Contract. Contractors may apply for a business license at: <https://www.roseville.ca.us/government/departments/finance/licensing/business>

11.0 GENERAL TERMS & CONDITIONS

11.1 Standard Contract.

Upon completion of the evaluation and recommendation for award, the selected Contractor will be required to execute an agreement prepared by the City, a sample of which is included as Volume 2 of the Contract Documents.

11.2 Independent Contractor

At all times the Contractor shall represent himself/herself to be an independent contractor offering such services to the general public and shall not represent himself/herself, or his/her employees, to be an employee of the City. Therefore, the Contractor shall assume all legal and financial responsibility for taxes, FICA, employee fringe benefits, workers' compensation, employee insurance, minimum wage requirements, overtime, etc., and agrees to indemnify, save, and hold the City, its officers, agents, and employees, harmless from and against, any and all loss, cost (including attorneys' fees), and damage of any kind related to such matters.

11.3 Non-Appropriation

The City may terminate any resulting contract at the end of any fiscal year, June 30th, without further liability other than payment of debt incurred during such fiscal year, should funds not be appropriated by its governing body to continue services for which the contract was intended.

11.4 Conflict of Interest.

The Contractor shall warrant that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the resulting contract, nor that any such person will be employed in the performance of such contract without immediate divulgence of such fact to the City. Contractors submitting a proposal in response to this RFP must disclose any actual, apparent, direct, indirect, or potential conflicts of interest that may exist with respect to the Contractor or the Contractor's management or employees relative to the services to be provided to the City. Conflict of interest issues may require consultation with legal counsel. If a

Contractor has no conflicts of interest, a statement to that effect must be included in the proposal. Violation of this section shall be a material breach of the contract entitling the City to any and all remedies by law or in equity.

Firms/Companies may be included as a subcontractor on multiple proposals; however, Firm/Company may not submit a proposal as a Prime Contractor if they are also identified as subcontractors on other proposals.

11.5 Undue Influence.

The Contractor shall warrant via an executed Proposer's Certification (**Attachment 1**) that no undue influence or pressure is used against or in concert with any officer or employee of the City in connection with the award or terms of the contract that will be executed as a result of this RFP, including any method of coercion, confidential financial arrangement or financial inducement. No officer or employee of the City shall receive compensation, directly or indirectly, from the Contractor, or from any officer, employee or agent of the Contractor, in connection with the award of the contract or any work to be conducted as a result of this RFP. Violation of this section shall be a material breach of the contract entitling the City to any and all remedies by law or in equity.

11.6 Non-Collusion.

Contractors submitting proposals shall warrant via an executed Proposer's Certification (**Attachment 1**) that their offer is made without any previous understanding, agreement or connection with any person, firm or corporation submitting a separate proposal for the same project and is in all respects fair, without outside control, collusion, fraud or otherwise illegal action. This condition shall not apply to proposals which are submitted by firms who have partnered with others to submit a cooperative proposal that clearly identifies a primary contractor and the associated sub-consultants or sub-contractors. For construction contracts, proposers shall submit a properly completed and executed "Non-collusion Declaration" which is attached as **Attachment 10**.

11.7 Indemnification & Insurance Requirements

The City's standard indemnification and insurance requirements are provided in the sample agreement, included as Volume 2 to the Contract Documents.

11.7.1 Insurance

Insurance requirements are provided in Volume 2 of the Contract Documents – Agreement Article 11-Insurance to be provided by CONTRACTOR, only an overview is provided in Table 3, refer to the agreement for all requirements.

Table 3: Insurance Requirements

Insurance	Requirement
Commercial General Liability	

Insurance	Requirement
Major Construction Projects (Projects over \$1,000,000)	\$5,000,000 each occurrence \$10,000,000 aggregate Personal Injury: \$5,000,000 each occurrence \$10,000,000 aggregate
Comprehensive Automobile Liability	
For bodily injury (including death) and property damage which provides	Total limits of not less than One Million Dollars (\$1,000,000) combined single limits per accident, applicable to all owned, non-owned, and hired vehicles.
Statutory Workers' Compensation and Employer's Liability Insurance	Limits of not less than One Million Dollars (\$1,000,000) per occurrence.
Builder's Risk/Course of Construction Insurance	All Risk type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the Work performed under this Contract
Contractor's Pollution Liability Insurance	Combined Single Limit for each occurrence: \$2,000,000 General Aggregate: \$2,000,000
Professional Liability	
Submittals prepared by licensed California Engineer	Limit per claim of at least \$2,000,000, and a \$4,000,000 in the aggregate for errors and omissions.

All costs of complying with the insurance requirements shall be as included in your pricing. The selected Contractor shall provide complete and valid insurance certificates within ten (10) days of the City's written request. Failure to provide the documents within the time stated may result in rejection of the Contractor's proposal. Alterations to the terms and conditions shall not be allowed.

11.7.2 Bonds

The Contract's Article 11.12-Payment, Performance and Warranty Bonds contains requirements for Performance, Labor & Materials and Warranty Bonds. The successful Contractor will be required to provide a Faithfull Performance Bond and a Labor and Materials Bond using the City's forms. The successful contractor will also be required to execute Warranty Bond issued by a corporate surety, acceptable to City. The Payment Bond and Labor and Material Bond shall be for not less than one hundred percent (100%) of the Total GMP; and the Warranty Bond shall be not less than ten percent (10%) of the Agreement cost. Pursuant to California Code of Civil Procedures Section 995.311, the City will verify all bonds for this Project are issued and executed by a California admitted surety. A summary of the Bonding requirements is presented in Table 4-Bonding Requirements below.

Table 4: Bonding Requirements

Bond Type	Requirement
Faithful Performance	100% of the Total Contract Price

Labor and Materials	100% of the Total Contract Price
Warranty	One year following the date of Final Completion Penal sum equal to ten percent (10%) of the GMP

11.8 Cost of Preparing Proposal.

The City will not pay any costs incurred by any Contractor in preparing or submitting a proposal in response to this RFP.

11.9 Proposal's Property of the City.

All documents or materials submitted with or in conjunction with any proposal, including but not limited to electronic files, shall become the property of the City after the proposal submission deadline. No submission documents will be returned. During negotiations, the scope of services may be amended by the City and negotiated based upon ideas provided by other proposers or any other source.

11.10 Proposals are Public Records.

All proposals submitted are subject to the public disclosure requirements under the laws of the State of California, unless the City identifies and exercises a right or obligation to exempt any record from public disclosure. However, proposals will not be disclosed until negotiations are complete and a recommendation for selection and award is made.

11.11 Protests

A. Protest Requirements

Any Proposer who is aggrieved in connection with the solicitation or award of a contract may file a protest with the City Clerk's office. The protest must be received in writing by the City Clerk's office within seven (7) calendar days after such aggrieved proposer 1) knows or should have known of the facts giving rise thereto or 2) the date of the notice of intent to award, whichever is sooner. In no event shall a protest be allowed after an award has been made by City Council. If the seventh calendar day falls on a weekend or City holiday, the protesting party may submit the protest prior to close of business on the first business day following such weekend or holiday. Failure to submit a timely protest shall bar consideration of a protest.

B. Grounds for Protest

1. The alleged grounds for protest shall be limited to the following: (a) computation errors, (b) violations of local, state, or federal law, or (c) the City failed to follow the procedures specified in this Policy.
2. The protest shall state all grounds claimed for the protest and include supporting documentation. Failure to clearly state the grounds for the protest and provide supporting documentation shall be deemed a waiver of all protest rights.

C. Administrative Review

Upon receipt of the protest and after determining the protest was properly filed, the Department Director shall provide a copy of the protest to other proposers who might become aggrieved as a result of the protest and issue a written decision within fourteen (14) calendar days after receipt of the protest. The protest will be evaluated by the Department Director, the City Attorney's Office, and the Purchasing Manager. The protesting proposer shall promptly provide any information

requested by City staff as part of such investigation. The decision shall either deny or uphold the protest and include reasons for the decision. The written decision shall be final.

D. Stay of Action During a Protest

In the event a protest is filed under Section 11.11, the City shall not proceed further with the award of the contract until the protest is resolved, unless:

1. The Director of Central Services makes a determination that the award of the contract without delay is necessary to protect a substantial interest of the City, or
2. The City decides to reject all proposals and issue a new RFP.

11.12 Rejection of RFP

The City reserves the right to reject any or all proposals, to waive defects or irregularities in any proposal or in the RFP process, and to offer to negotiate or contract with any Contractor in response to any RFP. This RFP does not constitute any form of offer to contract.

11.13 Multiple Award

The City reserves the right to award the contract to multiple contractors when applicable.

11.14 Increasing/Decreasing Portions of RFP

The City reserves the right to increase or decrease the amount of any portions of the work represented in the RFP and/or to omit portions of said work, as may be deemed necessary by the City.

11.15 Rejection as Non-Responsive

Proposals may be rejected as non-responsive at the City's sole discretion if there are alterations of form, the proposal is conditional or the proposal is incomplete.

11.16 Modifying RFP

The City reserves the right to modify any portion of, or to postpone or cancel this RFP at any time, and/or reject any and all submissions without indicating any reason.

11.17 No Proposal Accepted

If no proposal is accepted, the City may elect to have the services performed in some other manner.

11.18 Rejecting Team Members, Firms or Sub-contractors.

The City reserves the right to reject individual team members, firms, sub-consultants or sub-contractors and request substitution prior to contract award.

11.19 Local Business, Small Business, Minority and Women Owned Business

Although no preferences will be given, the City highly encourages submission of proposals by local businesses, by small business owners, and by minority and women-owned businesses.

11.20 Withdrawal of Proposals

Proposals may be withdrawn prior to the date and time specified for proposal submission with a formal written notice by an authorized representative of the proposer delivered to the City Clerk's Office. Proposals submitted will become property of the City after the proposal submission deadline.

Proposals may not be withdrawn for ninety (90) days after the due date unless the City enters into a contract with another Contractor prior to the expiration of that ninety (90) day period.

11.21 Electronic Transmittals

No electronic mail, telephone or facsimile proposals will be accepted. If a photocopy is submitted, the proposal must be signed in ink.

11.22 Proposal Postponement and Amendment

The City reserves the right to revise or amend the RFP or specifications up to the time set for opening of the proposals. Such revisions and amendments, if any, shall be announced by amendments to this RFP through the City's website. Copies of such amendments shall be furnished to all prospective proposers. Prospective proposers are defined as those proposers who have registered and are on the City's RFP list for this material/service. If revisions and amendments require changes in quantities, prices or scope of services, the date set for opening of the proposals may be postponed by such number of days as in the opinion of the City shall enable proposers to revise their proposals. Proposals which fail to acknowledge a substantive addendum to the RFP, as determined by the City Attorney's Office, on the City supplied addendum form will be rejected as non-responsive. Any revisions or amendments to the RFP will become incorporated into any contract awarded pursuant to the RFP.

11.23 Proprietary Information

Proposers submitting a proposal in response to this RFP must provide a statement that nothing contained in the submitted proposal will be proprietary. However, if a proposer desires to claim a privilege against public disclosure for a trade secret or other proprietary information, such information must be submitted with the proposal in a separate envelope marked "confidential." The City Attorney's Office will determine if the information is in fact proprietary, based on state and federal law. Note that under California law, a price proposal to a public agency is not a trade secret. The Contractor shall defend, indemnify and hold harmless the City regarding any claim by any third party for the public disclosure of the "confidential" portion of the proposal.

11.24 Right to Request Additional Information

During the evaluation process, the City reserves the right, where it may serve the best interests of the City, to request additional information and clarifications from proposers. Such information will be requested in writing to the specific proposer. This information will become a part of the original proposal submitted by the specific proposer and will be used by the City in evaluating the proposal and will not be shared with other proposers during the evaluation and negotiation process.

11.25 Modification of Proposals

Modification of a proposal already received will be considered only if the modification is received prior to the deadline date for receiving proposals. All modifications shall be made in writing, executed, and submitted in the same form and manner as the original proposal.

11.26 Examination of Contract Documents

Each Proposer shall thoroughly examine and be familiar with the terms of this RFP, the sample Agreement attached (Volume 2), Technical Specifications (Volume 3), Drawings (Volume 4), legal and procedural documents, general conditions, specifications, and addenda (if any), which will constitute the contract documents. Submission of a proposal shall constitute acknowledgement, upon which the City may rely, that the proposer has thoroughly examined and is familiar with the contract documents. Failure or neglect of a Proposer to receive or examine any of the contract documents shall in no way relieve the Proposer of any obligation with respect to their proposal or to the contract. No claim for additional compensation will be allowed which is based upon lack of knowledge of any contract document.

11.27 Non-Discrimination.

The City maintains various policies related to contractual service providers. Among these is an anti-discrimination policy, which requires that the City's contractors not discriminate in hiring on the basis of gender, race, religion, sexual orientation, medical condition, and all other categories protected by law. Upon acceptance of a proposal, the City may request that the selected Contractor sign a statement affirming its compliance with this policy.

11.28 No Assignment or Modifications

This awarded contract is to be binding on the successors and assigns of the parties hereto. The services called for herein are deemed unique and except as provided herein, Contractor shall not assign, transfer, subcontract, or otherwise substitute its interest in the agreement or any of its obligations herein without the written consent of the City. The Agreement may be modified only by a written amendment signed by the parties.

11.29 Bankruptcy

Upon filing for any bankruptcy or insolvency proceeding whether voluntary or involuntary, or upon the appointment of a receiver, trustee, or assignee for the benefit of creditors, the Contractor must notify the City immediately. Upon learning the actions herein identified, the City reserves the right, at its sole discretion, to cancel the contract.

11.30 Escrow Proposal Documents (EPDs)

A. Procedure

1. The highest ranked Proposer shall submit one (1) copy of all documentary information generated in preparation of its GMP for this project within five (5) working days after receipt of Final Agreement for Contractor's signature. This material is hereinafter referred to as Escrow Proposal Documents (EPDs).
2. The highest ranked Proposer agrees, as a condition of award of the Agreement, that the EPDs constitute the only complete documentary information used in preparation of its

Proposal. No other Proposal preparation information shall be considered in resolving disputes.

3. Nothing in the EPDs shall change or modify the terms or conditions of the Contract Documents.

B. Ownership

1. The EPDs are and shall always remain the property of the Contractor subject only to joint review by City and the Contractor, except as provided for herein.
2. City stipulates and expressly acknowledges that the EPDs, as defined herein, constitute trade secrets. This acknowledgment is based on City's express understanding that the information contained in the EPDs is not known outside the Contractor's business, is known only to a limited extent and only by a limited number of employees of the Contractor, is safeguarded while in the Contractor's possession, and is extremely valuable to competitors by virtue of its reflecting the Contractor's contemplated techniques of construction.
3. City acknowledges that EPDs and the information contained therein are made available to City only because such action is an express prerequisite to award of the Project Agreement. City acknowledges that the EPDs include a compilation of information used in the Contractor's business, intended to give the Contractor an opportunity to obtain an advantage over competitors who do not know of or use the contents of the documentation. City agrees to safeguard the EPDs and all information contained therein to the fullest extent permitted by law.

C. Purpose

EPDs will be used to assist in the negotiation of price adjustments and variations and in the settlement of disputes, claims and other controversies. They will not be used for pre-award evaluation of the Contractor's anticipated methods of construction or to assess the Contractor's qualifications for performing the Work.

D. Format And Content

1. Proposers may submit EPDs in their usual cost estimating format. It is not intended that extra work is required in preparing the Proposal but to ensure that the EPDs will be adequate to enable complete and proper understanding and proper interpretation for their intended use. The EPDs shall be in the English language only.
2. The EPDs shall clearly itemize the estimated costs of performing the Work. Items shall be separated into sub-items as required to present a complete and detailed cost estimate and allow a detailed cost review. The EPDs shall include all quantity take-offs, crews, equipment, calculations of rates of production and progress, copies of quotations from subcontractors and suppliers, and memoranda, narratives, consultants reports, add/deduct sheets and all other information used by the Contractor to arrive at the prices contained in the GMP. Estimated costs shall be broken down into the Contractor's usual estimate categories such as direct labor, repair labor, equipment operation, equipment ownership, expendable materials, permanent materials, and subcontract costs as appropriate. Plant and equipment and indirect costs should be detailed in the Contractor's usual format. The Contractor's allocation of plant and equipment, indirect costs, contingencies, mark-up and other items to each portion of its estimate shall be clearly indicated.

3. The EPDs shall clearly show in calculations, text, or both, the relationship between baseline indications presented in the Contract Documents and assumptions that form the basis for the Contractor's means, methods, equipment selection, rates of production, and costs.
4. All costs shall be identified. For work items where the extended amount is less than \$10,000, estimated unit costs are acceptable without a detailed cost estimate, provided that labor, equipment, materials and subcontracts, as applicable, are included and provided that indirect costs, contingencies, and mark-up, as applicable, are allocated.
5. Proposal Documents provided by City should not be included in the EPDs unless needed to comply with the above requirements.

E. Submittal

1. The highest ranked Proposer shall submit their EPDs in a sealed container (e.g., sealed envelope, box or carton sealed with tape, locked strongbox, etc.), and the container shall be clearly marked on the outside with the Proposer's name, date of submittal, project name, Agreement No., and the words "Escrow Proposal Documents". The EPDs shall be submitted to:

Janice Gainey
City of Roseville Environmental Utilities-Engineering
2005 Hilltop Circle
Roseville, CA 95747

2. The EPDs shall be accompanied, on the outside of the container, by the "Escrow Proposal Document Certification" which is **Attachment 18** to this RFP. The Escrow Proposal Document Certification should be signed by an individual authorized by the Proposer to execute the Proposal, stating that the material in the Escrow Proposal Documentation constitutes all the documentary information used in the preparation of the Proposal and that the individual authorized by the Proposer has personally examined the contents of the EPDs container and has found that the documents in the container are complete.
3. Prior to award of the Project Agreement, the EPDs of the highest ranked Proposer will be examined, organized and inventoried by representatives of City, together with members of the Contractor's staff who are knowledgeable in how the Proposal was prepared. This examination is to ensure that the EPDs are authentic, legible, and complete. It will not include review of and will not constitute approval of proposed construction methods, estimating assumptions, or interpretations of the Contract Documents. Examination will not alter any condition(s) or term(s) of the Agreement.
4. If all documentation required in the "Format and Contents" has not been included in the original submittal, additional documentation shall be submitted, at City's discretion, prior to award of the Project. The detailed breakdown of estimated costs shall be reconciled and revised, if appropriate, by agreement between the Contractor and City before making the award.
5. If the Project is not awarded to the highest ranked Proposer, the EPDs of the next highest ranked Proposer to be considered for award shall be processed, as described above.

6. Timely submission of the complete EPDs is an essential element of the Proposer's responsibility and a prerequisite to Agreement award. Failure to provide the necessary EPDs within the specified time frame will be sufficient cause for City to reject the Proposal as non-responsive.
7. If the Proposer's Proposal is based on subcontracting any part of the Work, each subcontractor whose total subcontract price exceeds five percent (5%) of the total GMP proposed by the Proposer, shall provide separate EPDs to be included with those of the Proposer. These documents will be opened and examined in the same manner and at the same time as the examination described above for the highest ranked Proposer. THE FAILURE TO SUBMIT SUBCONTRACTOR EPDs MAY RENDER CONTRACTOR'S PROPOSAL NON-RESPONSIVE.
8. If the Contractor wishes to subcontract any portion of the Work after award, City retains the right to require the Contractor to submit EPDs from the subcontractor before the subcontract is approved. THIS SECTION IS NOT INTENDED TO AND SHALL NOT BE INTERPRETED AS A WAIVER BY THE CITY OF ANY OF THE REQUIREMENTS OR PROVISIONS OF PUBLIC CONTRACT CODE SECTION 4100 et seq. KNOWN AS THE SUBLETTING AND SUBCONTRACTING FAIR PRACTICES ACT.

F. Storage

Absent request from the Contractor to place the EPDs in possession of a third-party escrow agent, the EPDs will be stored by the City's Department of Environmental Utilities in its offices. Upon written request from the Contractor, the EPDs shall be placed in escrow with a mutually agreeable institution for the life of the Agreement, unless examination is required, which shall be conducted in accordance with this section. The cost of storage by a third-party escrow agent will be borne by the Contractor.

G. Examination

1. The EPDs shall be examined by both City and the Contractor, at any time deemed necessary by either City or the Contractor, to assist in the negotiation of price adjustments and change orders, or the settlement of disputes.
2. Such examination of the EPDs is subject to the following conditions:
 - a. As trade secrets, the EPDs are proprietary and confidential as described above.
 - b. City and the Contractor shall each designate, in writing to the other party a minimum of ten (10) days prior to examination, representatives who are authorized to examine the EPDs. No other person shall have access to examine the EPDs.
 - c. Examination of the EPDs will take place only in the presence of duly designated representatives of both City and the Contractor.

H. Final Disposition

1. The EPDs will be returned to the Contractor at such time as the Agreement has been completed and final settlement has been achieved.

2. The EPDs submitted by any unsuccessful Proposer will be returned unopened, unless opened as provided for above, following execution of the Agreement.

THIS DOCUMENT IS NOT INTENDED TO CREATE CONFIDENTIAL STATUS TO EPDs IN THE EVENT OF LITIGATION BETWEEN CONTRACTOR AND THE CITY. IF LITIGATION OCCURS, ALL EPDs ARE SUBJECT TO DISCOVERY AND SHALL NOT BE CONSIDERED CONFIDENTIAL. IF LITIGATION COMMENCES BETWEEN THE CITY AND CONTRACTOR, UPON TEN (10) DAYS WRITTEN NOTICE TO CONTRACTOR, THE CITY MAY DEMAND AND CONTRACTOR SHALL PERMIT THE CITY TO COPY ALL MATERIALS SUBMITTED INTO ESCROW PURSUANT TO THIS SPECIFICATION.

12.0 LIST OF ATTACHMENTS

- Attachment 1 PROPOSER'S CERTIFICATION
- Attachment 2 MINIMUM EXPERIENCE AND QUALIFICATIONS REQUIREMENTS
- Attachment 3 LICENSES and DIR REGISTRATION
- Attachment 4 CORPORATE TREE
- Attachment 5 QUALIFYING PROJECT EXPERIENCE
- Attachment 6 PROJECT EXPERIENCE of the PROJECT MANAGER and SIGNIFICANT SUBCONTRACTOR STAFF
- Attachment 7 STATEMENT OF SUBCONTRACTORS
- Attachment 8 ASSURANCE OF DESIGNATED PROJECT TEAM
- Attachment 9 SAFETY RECORD
- Attachment 10 NO CONFLICT OF INTEREST DECLARATION
- Attachment 11 NON-COLLUSION DECLARATION
- Attachment 12 ASSEMBLY BILL NO. 626
- Attachment 13 IRAN CONTRACTING ACT DISCLOSURE FORM
- Attachment 14 INDEMNIFICATION AND INSURANCE REQUIREMENTS
- Attachment 15 GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE
- Attachment 16 PROPOSED SHARED SAVINGS
- Attachment 17 PROPOSAL ENVELOPE LABEL
- Attachment 18 ESCROW PROPOSAL DOCUMENT CERTIFICATION
- Attachment 19 PROPRIETARY INFORMATION STATEMENT

Attachment 1 - PROPOSER'S CERTIFICATION

Signature Instructions:

The attached Proposer's Certification (**Attachment 1**) shall be executed by an official(s) legally authorized to bind the Contractor. Contractor must follow the appropriate signature requirements and signature block when executing the Attachment. Submit with Part 1 of the proposal.

- Proposals which are submitted by a **Sole Proprietorship** (Individual Doing Business under a firm name "dba") shall be signed in the name of the individual doing business under the proper firm name and style.
- Proposals submitted on behalf of a **Partnership** shall be signed in the firm name by a partner.
- Proposals which are submitted on behalf of a **Corporation** shall have the correct corporate name thereon and the actual signature of the authorized officer of the corporation written (not typed) below the corporate name. The title of the office held by the person signing for the corporation shall appear below the signature of the officer.
- Proposals which are submitted on behalf of a **Limited Liability Company** ("LLC") shall be signed by the person or persons authorized to bind the LLC under the LLC's Articles of Organization.

Form Attachment 1 on next page

Attachment 1- PROPOSER'S CERTIFICATION

West Side Tanks and Pump Station

In response to the Request for Proposals (RFP), dated November 15, 2019, the undersigned hereby proposes to City to furnish all plant, labor, technical and professional services, supervision, materials, and equipment (other than materials and equipment specified as furnished by City), and to perform all operations necessary and required for construction of the West Side Tanks and Pump Station Project, in accordance with the Contract Documents, and any Addenda thereto, for the Total Guaranteed Maximum Price (GMP) and all other terms submitted in the Proposal.

This Proposal constitutes a firm offer to City, which cannot be withdrawn for 120 days from and after the date set for receiving Proposals, or until the Agreement is fully executed by City, whichever is earlier.

It is understood that this Proposal is based upon completion of the Work within a period outlined in Exhibit H-COMPLETION TIMES AND LIQUIDATED DAMAGES, of the Agreement commencing on the date specified in the Notice to Proceed.

The undersigned Proposer hereby certifies that it has examined and is fully familiar with all of the provisions of the Contract Documents; has carefully checked all of the words and figures shown on its Proposal; has carefully reviewed the accuracy of all statements in this Proposal and attachments hereto; and understands and agrees that City will not be responsible for any errors or omissions on the part of the undersigned in preparing this Proposal.

The undersigned Proposer has, by careful examination of the Contract Documents, and by examination of the actual Site conditions, satisfied itself as to the nature and location of all Work, the general and local conditions to be encountered in the performance of any Work, the requirements of the Contract Documents, and all other matters that can in any way affect the Work or the cost thereof.

The undersigned agrees to execute the Agreement and provide City the executed Agreement, the required insurance certificates, endorsements, and waivers of subrogation, and the required surety bonds within fifteen (10) business days after the undersigned's receipt of the City's unsigned Agreement.

I further certify that this proposal is made without prior understanding, agreement, connection, discussion, or conspiracy with any other person, firm or corporation submitting a proposal for the same product or service; that this proposal is fair and made without outside control, collusion, fraud or illegal action; that no officer, employee or agent of the City or any other proposer is financially interested in said proposal; that no undue influence or pressure was used against or in concert with any officer, employee or agent of the City in connection with the award or terms of the contract that will be executed as a result of this RFP; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

Type of Organization:

☐ Sole Proprietorship ☐ Corporation ☐ State of Incorporation
☐ Partnership ☐ Limited Liability Company

The undersigned Proposer acknowledges receipt, understanding, and full consideration of the following Addenda:

Table 1.1 – Acknowledgement of Addenda

Addendum Number	Addendum Date	Signature of Proposer

Certification if proposing firm is a Sole Proprietorship:

Name (typed or printed):			
By:			
		(Individual's signature)	
Doing business as:			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

Certification if proposing firm is a Partnership

Partnership Name (typed or printed):			
By:			
		(Signature of general partner- attach evidence of authority to sign)	
Name (typed or printed):			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

Certification if proposing firm is a Corporation:

Corporation Name (typed or printed):	
State of Incorporation:	
By:	
	(Signature - attach evidence of authority to sign – Board Resolution)
Name (typed or printed):	
Title:	
(CORPORATE SEAL)	

Attest:			
		(Signature of Corporate Secretary)	
Name:			
Date of Qualification to do business:			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

***If person executing on behalf of a Corporation is not the President or Vice President, evidence of authority to sign on behalf of Corporation must be attached.**

Certification if proposing firm is a **Limited Liability Company**:

Limited Liability Company Name :			
By:			
		(Signature of Managing Member - attach evidence of authority to bind the LLC under the LLC's articles of organization)	
Name (typed or printed):			
Title:			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

****END OF ATTACHMENT 1****

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Attachment 2 – MINIMUM EXPERIENCE AND QUALIFICATIONS REQUIREMENTS

West Side Tanks and Pump Station Project

The undersigned Proposer represents that it is duly licensed, competent, and knowledgeable and has the special skills on the nature, extent and inherent conditions of the work to be performed on this Project. Proposer further acknowledges that the conditions inherent in the construction of particular facilities may create, during construction, unusual or unsafe conditions hazardous to persons and property. Proposer expressly acknowledges that it is aware of such risks and that it has the skill and experience to foresee and to adopt and implement protective measures to adequately and safely perform the construction work with respect to such hazards. The prospective Proposer's qualifications and responses to the questions set forth below are part of the City's evaluation of the Proposer's eligibility to receive the award based on the Proposer's responsibility and responsiveness. The Owner has determined that only Proposers meeting the mandatory minimum experience and qualification requirements set forth below will have the requisite quality, fitness, capacity and experience to perform the highly complex and vital construction work on this Project.

QUESTIONS REGARDING PROPOSER'S RESPONSIBILITY AND FITNESS TO CONTRACT FOR THE WORK.

An answer of "False" to any of the Statements 1 through 9 will be rated a "Fail" and the Prospective Proposer will be immediately disqualified.

Table 2.1 Minimum Qualifications and Experience Questionnaire

No.	True	False	Statement
1			Prospective Proposer possesses a valid and current California Contractor's license -Class A, General Engineering Contractor) for the project for which it intends to submit a Proposal.
2			Proposer's company's contractor's license HAS NOT been revoked at any time in the last five years.
3			Prospective Proposer is registered with the California Department of Industrial Relations pursuant to California Labor Code Section 1725.5.
4			Prospective Proposer has not had a surety finish the work on any contract in the past five years.
5			Prospective Proposer has current workers' compensation insurance policy as required by the Labor Code or is legally self-insured pursuant to Labor Code section 3700 et. seq. OR Prospective Proposer is exempt from this requirement because it has no employees.

No.	True	False	Statement
6			At the time of submitting this RFP, company is eligible to bid on or be awarded a public works contract, or perform as a subcontractor on a public works contract, pursuant to California Labor Code §1777.1 and Labor Code §1777.7.
7			At no time during the last five (5) years, has Proposer's company, or any of its officers or partners been convicted of a crime involving the awarding of a contract for a government construction project, or the bidding or performance of any federal, state or local government contract.
8			Prospective Proposer agrees to perform with its own organization and with the assistance of workers under its immediate superintendence, work of a value not less than 30% of the Proposer's Total Guaranteed Maximum Price.
9			Proposer's Firm has completed at least \$75 Million in construction value on no more than seven (7) projects completed since January 1, 2009.

NAME OF BUSINESS

SIGNATURE

NAME & TITLE, TYPED OR PRINTED

****END OF ATTACHMENT 2****

Attachment 3 - LICENSES and DIR REGISTRATION

West Side Tanks and Pump Station Project

List the licenses held by your company and/or employees. The following representations are made under penalty of perjury.

A. CONTRACTOR'S LICENSES

CA State License No.	Name on License	Class/Type	Expiration Date

B. CITY OF ROSEEVILL BUSINESS LICENSE

Contractors are not required to have a City of Roseville Business license to submit a proposal; however, it will be required before executing a contract. Contractors may apply for a business license at:

<https://www.roseville.ca.us/government/departments/finance/licensing/business>

Do you currently have a City of Roseville Business License? _____Yes _____No

License No. _____

C. DEPARTMENT OF INDUSTRIAL RELATIONS CONTRACTOR REGISTRATION

***For Public Works Projects (SB854):** Contractors must register with the Department of Industrial Relations (DIR) pursuant to Labor Code section 1725.5. The Contractor shall provide proof of current registration with the Department of Industrial Relations for both itself and all listed subcontractors with their proposal. Contractors may register at:

<http://www.dir.ca.gov/public-works/publicworks.html>

DIR contractor registration number and expiration date:

No.: _____ Expiration Date: _____

****END OF ATTACHMENT 3****

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Attachment 4 – CORPORATE TREE

(Proposer to Provide)

****END OF ATTACHMENT 4****

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Attachment 5 – QUALIFYING PROJECT EXPERIENCE

West Side Tanks and Pump Station Project

Given the complexity and importance of timely and successful completion of the Project to the City and its residents, the Contractor and Subcontractors must provide qualifying project experience to be considered a responsible Proposer for this specific RFP procurement.

Prime Contractor: Provide five (5) references for projects or services similar in nature, scope, complexity, and size that your firm's team members have completed. Use the Attachment 5 form on following page.

Contractor's project experience will be assigned a Passing score for this project proposal evaluation if individually and collectively the experience presented meets all of the following qualifying criteria.

1. Time: Project(s) was completed within the last ten (10) years. Projects that are in progress may be used as qualifying projects but only the cost billed to date may be used for project size and volume requirements as defined in Items 3 and 4 below.
2. Type: Project was similar nature; scope, and complexity to West Side Tanks project. City will consider the following types of projects as qualifying on project type.
 - a. Water Tanks, where the structural concrete, excavation and backfill were part of the Contractor's contract;
 - i. Only Contractors experienced in the construction of strand wrapped prestressed concrete tanks are qualified to propose on and construct the water tanks on this project. Contractor's team shall have successfully completed at least five (5) circumferentially strand wrapped AWWA D110 Type 1 prestressed concrete tanks of at least 1.0 MG in capacity in the last ten (10) years. At least 2 of the above tanks shall have been in successful service for a minimum of five years. If the tank construction is subcontracted, the Tank Subcontractor, or one of its divisions, shall be required to meet the above-specified experience qualifications.
 - ii. In order to meet the experience requirements, the five (5) completed AWWA D110 Type 1 tanks shall be similar (i.e. freed wall base, poured-in-place core wall, externally machine strand wrapped, etc.) in design to the specified tank. Experience with tanks having fixed wall bases, mild-steel reinforced tank core walls, shotcrete tank core walls, precast tank core walls or tank core walls incorporating external solid wire wrapping systems or internal stressing systems shall not be considered in meeting the required experience requirements. All tanks listed for CONTRACTOR's experience requirements must have been built in CONTRACTOR's own name, or one of its divisions. Experience of personnel associated with CONTRACTOR or hired by the CONTRACTOR will not be considered unless CONTRACTOR can demonstrate that the work was contracted and performed directly by the listed Tank Contractor, or one of its divisions, in its business name.
 - b. Pump Stations where the structural concrete, excavation, backfill, electrical, mechanical and instrumentation systems were part of the Contractor's contract;

- c. Industrial and/or Municipal Water Treatment Plants where the earthwork, structural concrete, mechanical, electrical, and instrumentation systems were part of the Contractor's contract; or
 - d. Industrial and/or Municipal Wastewater Treatment Plants where the earthwork, structural concrete, mechanical, electrical, and instrumentation systems were part of the Contractor's contract.
3. Size: Demonstrate experience on projects of a similar size. At least one (1) qualifying project must be for a contract cost of \$20M or larger.
 4. Self-Performance - Proposer certifies that they self-performed at least 30% of the Work on each of the reference projects presented as qualifying projects. Also, Proposers should note that only projects performed by the organization applying for the project, shall be considered; any project performed by a parent or sister company shall not be considered.

Major Subcontractor(s). If a Contractor subcontracts out any work items and the expected value of subcontractor's work is greater than twenty percent (20%) of the GMP, that subcontractor is considered a "Major Subcontractor" and must furnish the same qualifying project experience as the Prime Contractor as detailed above under **Prime Contractor**.

Key Subcontractor(s). If a Contractor subcontracts out any work items and the expected value of subcontractor's work is greater than five percent (5%) of the GMP, that subcontractor is considered a "Key Subcontractor" and must furnish three (3) project references completed in the last five (5) years that show experience required for their scope of work on this project.

In addition to completing individual project reference forms, each Prime, Major, or Key Contractor must complete Table 5-1: Reference Project Summary for their reference projects.

Table 5-1: Reference Project Summary

Project	Date Completed	Billed to Date	Self-Performance Percentage
Total Volume:			

Contractor: _____

Qualifying Project #_____	Project Name:	
Prime Contractor (Project Applicant):		
Project Manager:		
Owner:		
Total Construction Cost: \$	Total Paid to Date: \$	
Duration of Project (months):		
Owner's Representative:		
Owner's Representative Telephone No.:		
Engineer or On-Site Construction Mgr.:		
Engineer or On-Site CM's Telephone No.:		
Date of Substantial Completion :		
Description of Project Scope and Contractor Responsibilities:		

****END OF ATTACHMENT 5****

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Attachment 6 - PROJECT EXPERIENCE of the PROJECT MANAGER and SIGNIFICANT SUBCONTRACTOR STAFF

West Side Tanks and Pump Station Project

Instructions and Requirements

Given the complexity and importance of timely and successful completion of the Project to the City and its residents, the Proposer must provide qualifying project experience for their assigned Project Manager to be considered a responsible Proposer for this specific RFP procurement.

Project Manager Experience

Provide three (3) references for projects or services similar in nature, scope, complexity, and size where your assigned project manager held the position of Project Manager using the forms on following pages. Project Manager's project experience will be assigned a passing score for this project proposal evaluation if individually and collectively the experience presented meets all of the following qualifying criteria.

1. Time: Project(s) was completed within the last ten (10) years. Projects that are in progress may be used as qualifying projects but only the cost billed to date may be used for project size requirement below (Item 3).
2. Type: Project was similar nature; scope, and complexity to West Side Tanks project. City will consider the following types of projects as qualifying on project type.
 - a. Water Tanks, where the structural concrete, excavation and backfill were part of the Contractor's contract;
 - b. Pump Stations where the structural concrete, excavation, backfill, electrical, mechanical and instrumentation systems were part of the Contractor's contract;
 - c. Industrial and/or Municipal Water Treatment Plants where the earthwork, structural concrete, mechanical, electrical, and instrumentation systems were part of the Contractor's contract; or
 - d. Industrial and/or Municipal Wastewater Treatment Plants where the earthwork, structural concrete, mechanical, electrical, and instrumentation systems were part of the Contractor's contract.
3. Size: Demonstrate experience on projects of a similar size. At least one (1) qualifying project must be for a contract cost of \$20M or larger.

Significant Subcontractor Staff Experience

If a Project Manager is not serving as the Tank Construction Superintendent and/or Specialty Tank Prestressing Superintendent/Operator as described in Technical Specification Section 03314, then those individuals serving in these roles are considered Significant Subcontractor Staff and must furnish the same qualifying project experience as the Project Manager as detailed above under **Project Manager Experience**.

Attachment 6 Forms on following pages.

Attachment 6 - PROJECT MANAGER'S PROJECT EXPERIENCE

Name: _____

Role: _____ (Project Manager, Superintendent, etc.)

Number of Years of Total Construction experience in this Role assigned to the types of projects as defined above: _____ years

Number of Years in this Role for your Company: _____ years

The City may check project references to verify the Project Manager's project experience information provided; therefore, it is very important that the Proposer verify that all contact information is current for project contacts.

The Proposer certifies that their named Project Manager will be assigned only this Project and will be personally present on-site full-time during construction.

NAME OF BUSINESS

SIGNATURE

NAME & TITLE, TYPED OR PRINTED

Proposing Firm: _____ **Project Manager:** _____

Project #1 Name:			
Owner:			
Construction Cost: \$			
Construction Time (Days):		Project Duration (months):	
Owner's Representative:			
Owner's Representative Telephone No.:			
Engineer or On-Site Construction Mgr.:			
Engineer or On-Site CM's Telephone No.:			
Date of Substantial Completion (must be on or before July 2019):			

Project #2 Name:			
Owner:			
Construction Cost: \$			
Construction Time (Days):		Project Duration (months):	
Owner's Representative:			
Owner's Representative Telephone No.:			
Engineer or On-Site Construction Mgr.:			
Engineer or On-Site CM's Telephone No.:			
Date of Substantial Completion (must be on or before July 2019):			

Project #3 Name:			
Owner:			
Construction Cost: \$			
Construction Time (Days):		Project Duration (months):	
Owner's Representative:			
Owner's Representative Telephone No.:			
Engineer or On-Site Construction Mgr.:			
Engineer or On-Site CM's Telephone No.:			
Date of Substantial Completion (must be on or before July 2019):			

****END OF ATTACHMENT 6****

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Attachment 7 - STATEMENT OF SUBCONTRACTORS

Westside Tanks and Pump Station Project

The undersigned Proposer submits herewith a list of subcontractors the Contractor proposes to employ on the Work that will each perform **Work in an amount greater than one half of one percent (0.5%) of the Total GMP** submitted in their Cost Proposal.

This list shall include the proper firm name, their license number and class, city and state of each subcontractor, and the portion of the Work to be done by each subcontractor with the understanding that failure to name such subcontractors shall be witness that the Contractor shall have agreed to perform such portion of the Work themselves; and that the Contractor shall not subcontract said portion of the Work.

If a subcontractor is listed, there shall be no substitution of that subcontractor without first obtaining written permission of City Council pursuant to the provisions of Section 4107 of the Public Contract Code.

The Contractor shall list only one subcontractor for each portion of the Work to be done as defined by the Contract Documents. The City will determine the percentage of the Work self-performed by the Proposer, by subtracting the total percentage of below listed subcontractors work from 100%.

Table 7-1: Statement of Subcontractors

Work to be done by Subcontractor	Percent of Total GMP	Name of Subcontractor	Place of Business (City and State)	CSLB Contractor License Number	DIR Registration Number, and Expiration Date

Work to be done by Subcontractor	Percent of Total GMP	Name of Subcontractor	Place of Business (City and State)	CSLB Contractor License Number	DIR Registration Number, and Expiration Date

****END OF ATTACHMENT 7****

Attachment 8 – ASSURANCE OF DESIGNATED PROJECT TEAM

West Side Tanks and Pump Station Project

The undersigned Proposer certifies that the designated project team, including subcontractors, will be used for this Project. Departure or reassignment of, or substitution for, any member of the designated project team or subcontractors shall not be made without the prior written approval of the City.

NAME OF BUSINESS

SIGNATURE

NAME & TITLE, TYPED OR PRINTED

MAILING ADDRESS

TELEPHONE NUMBER

EMAIL

****END OF ATTACHMENT 8****

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Attachment 9 – SAFETY RECORD

West Side Tanks and Pump Station Project

Contractor/Firm completing this report: _____

List any Occupational Safety Health Administration (OSHA) citation for violations of OSHA Standards and Requirements within the past five (5) years. Please explain each violation and the resulting penalties, if any.

Has CONTRACTOR earned any industry safety awards in the past five (5) years? If so, please provide an explanation of award(s).

Workers Compensation

Identify if your firm is self-insured for Workers Compensation Insurance in California. If self-insured provide the self-insurance number and attach a certification in the Appendix to the proposal.

Provide the name of your Worker's Comp. Insurance Carrier(s) as well as their address, agent's name and telephone number.

Provide the Average Lost Workday Incident Rates (LWIR), Average Recordable Incident Rates (RIR) and most recent Experience Modification Rate (EMR) in the format presented below.

Contractor's Average Lost Workday Incident Rates (LWIR) and the Average Recordable Incident Rates (RIR) are requested for evaluation of the safety history relating to the CONTRACTOR's construction operations only. Home office staff labor hours and the corresponding injury and illness figures for home office staff shall not be included in the calculation of these rates. Similar information for parent

companies, subsidiaries, or other company divisions not directly engaging in construction activities shall not be considered in these rate calculations. All data used in the calculations shall be specific to the company operation who will construct this Project if awarded the Contract.

Average Lost Workday Incident Rate (LWIR)

Calculate and provide your company's LWIR for the past three (3) complete years in the format presented below. The lost workday information is listed on your OSHA forms No. 300 and 300A and is available from your workers' compensation insurance carrier.

$LWIR = \text{Total number of lost workday incidents} \times 200,000 \text{ Total employee hours worked}$

Table 9-1: LWIR

Year	# of Lost Workday Incidents	Total Employee Hours Worked	Lost Workday Incident Rate
1-2018			
2-2017			
3-2016			
3 Year Average			

Average Recordable Incident Rate (RIR)

Calculate and provide your firm's RIR for the past three (3) complete years in the format presented below. The Incident Rate information is listed on your OSHA forms No. 300 and 300A and is available from your workers' compensation insurance carrier.

$RIR = \text{Total number of recordable incidents} \times 200,000 \text{ Total employee hours worked}$

Table 9-2: RIR

Year	# of Recordable Incidents	Total Employee Hours Worked	Recordable Incident Rate
1-2018			
2-2017			
3-2016			
3 Year Average			

The Experience Modification Rate (EMR)

The EMR is established by the CONTRACTOR's workers' compensation insurance carrier and is based on the CONTRACTOR's loss history. CONTRACTOR can provide either its Intrastate or Interstate EMR.

Identify either: () Intrastate () Interstate: _____

Provide your firm's EMR for the last three (3) complete years (this information is provided by your worker's comp. insurance carrier) in the format presented below.

Table 9-3: EMR

Year	EMR
1-2018	
2-2017	
3-2016	
3 Year Average	

END OF ATTACHMENT 9**

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Attachment 10 – NO CONFLICT OF INTEREST DECLARATION

West Side Tanks and Pump Station Project

The undersigned Proposer certifies that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the resulting agreement, nor that any such person will be employed in the performance of such work without immediate divulgence of such fact to the City. Proposers submitting a Proposal in response to this RFP must disclose any actual, apparent, direct, indirect, or potential conflicts of interest that may exist with respect to the Proposer or the Proposer's management or employees relative to the services to be provided to the City. Conflict of interest issues may require consultation with legal counsel. **If a Proposer has no conflicts of interest, a statement to that effect must be added to this ATTACHMENT 10.** Violation of this section shall be a material breach of the Agreement entitling the City to any and all remedies by law or in equity.

The undersigned Proposer certifies that no undue influence or pressure is used against or in concert with any officer or employee of the City in connection with the award or terms of the Agreement that will be executed as a result of this RFP, including any method of coercion, confidential financial arrangement or financial inducement. No officer or employee of the City shall receive compensation, directly or indirectly, from the Proposer, or from any officer, employee or agent of the Proposer, in connection with the award of the Agreement or any Work to be conducted as a result of this RFP. Violation of these requirements shall be a material breach of the contract entitling the City to any and all remedies by law or in equity.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [date], at _____ [city], _____ [state].

(Signature of Declarant)

****END OF ATTACHMENT 10****

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Attachment 11 – NON-COLLUSION DECLARATION

West Side Tanks and Pump Station Project

NONCOLLUSION DECLARATION TO BE EXECUTED BY BIDDER AND SUBMITTED WITH PROPOSAL

The undersigned declares:

I am the _____ of _____, the party making the foregoing Proposal.

The Proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The Proposal is genuine and not collusive or sham. The Proposer has not directly or indirectly induced or solicited any other Proposer to put in a false or sham Proposal. The Proposer has not directly or indirectly colluded, conspired, connived, or agreed with any Proposer or anyone else to put in a sham Proposal, or to refrain from proposing. The Proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the Proposal price of the Proposer or any other Proposer, or to fix any overhead, profit, or cost element of the Proposer price, or of that of any other Proposer. All statements contained in the Proposal are true. The Proposer has not, directly or indirectly, submitted his or her Proposal price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham Proposal, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a Proposer that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the Proposer.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on _____ [date], at _____ [city], _____ [state].

(Signature of Declarant)

****END OF ATTACHMENT 11****

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Attachment 12 - ASSEMBLY BILL NO. 626

CHAPTER 810

An act to add and repeal Section 9204 of the Public Contract Code, relating to public contracts.

[Approved by Governor September 29, 2016. Filed with
Secretary of State September 29, 2016.]

LEGISLATIVE COUNSEL'S DIGEST

AB 626, Chiu. Public contracts: claim resolution.

Existing law prescribes various requirements regarding the formation, content, and enforcement of state and local public contracts. Existing law applicable to state public contracts generally requires that the resolution of claims related to those contracts be subject to arbitration. Existing law applicable to local agency contracts prescribes a process for the resolution of claims related to those contracts of \$375,000 or less.

This bill would establish, for contracts entered into on or after January 1, 2017, a claim resolution process applicable to any claim by a contractor in connection with a public works project. The bill would define a claim as a separate demand by the contractor for one or more of the following: a time extension for relief from damages or penalties for delay, payment of money or damages arising from work done pursuant to the contract for a public work, or payment of an amount disputed by the public entity, as specified.

This bill would require a public entity, defined to exclude certain state entities, upon receipt of a claim sent by registered or certified mail, to review it and, within 45 days, provide a written statement identifying the disputed and undisputed portions of the claim. The bill would authorize the 45-day period to be extended by mutual agreement. The bill would require any payment due on an undisputed portion of the claim to be processed within 60 days, as specified. The bill would require that the claim be deemed rejected in its entirety if the public entity fails to issue the written statement.

This bill would authorize, if the claimant disputes the public entity's written response of if the public entity fails to respond to a claim within the time prescribed, the claimant to demand to meet and confer for settlement of the issues in dispute. The bill would require any disputed portion of the claim that remains in dispute after the meet and confer conference to be subject to nonbinding mediation, as specified. The bill would provide that unpaid claim amounts accrue interest at 7% per annum. The bill would prescribe a procedure by which a subcontractor or lower tier contractor may make a claim through the contractor.

This bill would require the text of these provisions, or a summary, to be set forth in the plans or specifications for any public work which may give rise to a claim. The bill would specify that a waiver of these rights is void and contrary to public policy, except as specified. The bill would also specify that it does not impose liability on a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

By increasing the duties of local agencies and officials, this bill would impose a state-mandated local program.

This bill would, on January 1, 2020, repeal the provision establishing the claim resolution process.

This bill would specify that these provisions constitute a matter of statewide concern.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that, if the Commission on State Mandates determines that the bill contains costs mandated by the state, reimbursement for those costs shall be made pursuant to these statutory provisions.

The people of the State of California do enact as follows:

SECTION 1. Section 9204 is added to the Public Contract Code, to read: 9204. (a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

(c) For purposes of this section:

(1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.

(2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.

(3) (A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) "Public entity" shall not include the following:

(i) The Department of Water Resources as to any project under the jurisdiction of that department.

(ii) The Department of Transportation as to any project under the jurisdiction of that department.

(iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.

(iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11(commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.

(v) The Military Department as to any project under the jurisdiction of that department.

(vi) The Department of General Services as to all other projects.

(vii) The High-Speed Rail Authority.

(4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d) (1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2)(A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

(C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

(D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

(E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

(3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

(4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

(5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

(e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.

(f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.

(g) This section applies to contracts entered into on or after January 1, 2017.

(h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

(i) This section shall remain in effect only until January 1, 2020, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

SEC. 2. The Legislature finds and declares that it is of statewide concern to require a charter city, charter county, or charter city and county to follow a prescribed claims resolution process to ensure there are uniform and equitable procurement practices.

SEC. 3. If the Commission on State Mandates determines that this act contains costs mandated by the state, reimbursement to local agencies and school districts for those costs shall be made pursuant to Part 7 (commencing with Section 17500) of Division 4 of Title 2 of the Government Code.

****END OF ATTACHMENT 12****

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Attachment 13 - IRAN CONTRACTING ACT DISCLOSURE FORM

GENERAL REQUIREMENTS

Pursuant to the Iran Contract Act of 2010 (California Public Contract Code, Sections 2202-2208), Proposers are ineligible to propose on projects with a public entity for goods or services of one million dollars (\$1,000,000) or more if the Proposer engages in investment activities in Iran.

Proposers must provide the below disclosure form as a mandatory submittal for all projects in excess of \$1,000,000. The Iran Contracting Act Disclosure Form shall be submitted by all Proposers as a mandatory submittal.

(California Public Contract, Sections 2202-2208)

When responding to a bid or proposal or executing a contract or renewal for a City contract for goods or services of \$1,000,000 or more, a vendor must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to Public Contract Code section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d).

To comply with this requirement, please provide your vendor or financial institution name and complete **one** of the options on the following page. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

OPTION #1 – CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

<i>Vendor Name/Financial Institution (Printed)</i>	
<i>By (Authorized Signature)</i>	
<i>Printed Name and Title of Person Signing</i>	
<i>Date Executed</i>	<i>Executed in</i>

OPTION #2 – EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

<i>Vendor Name/Financial Institution (Printed)</i>	
<i>By (Authorized Signature)</i>	
<i>Printed Name and Title of Person Signing</i>	
<i>Date Executed</i>	<i>Executed in</i>

****END OF ATTACHMENT 13****

Attachment 14 – INDEMNIFICATION AND INSURANCE REQUIREMENTS

Statement indicating your ability and agreement to fulfill the indemnification and insurance requirements contained in the sample CONTRACT (Reference Section 11.7). Provide notarized statement from insurance carrier. Please note that actual certificates of insurance are not required as part of your submittal.

****END OF ATTACHMENT 14****

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Attachment 15 - GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE

West Side Tanks and Pump Station Project

1.0 TOTAL PROPOSED GUARANTEED MAXIMUM PRICE (GMP)

The undersigned proposes and agrees to contract with the City to perform all of the Work for the Design Assist and Construction of the West Side Tanks and Pump Station Project including subsidiary obligations as defined in the Contract, for a **Guaranteed Maximum Price (“GMP”)** of

_____ dollars
(\$_____.00), U.S. Currency.

Subject to the provisions of this Proposal and the Contract, the costs and expenses which the Contractor may include in the Cost of Work for purposes of determining that aspect of the Contractor’s compensation are as set forth below. The Contractor’s total compensation, including Fee and allowable mark-ups, shall not exceed the GMP.

The GMP may be adjusted by Change Order in accordance with the Agreement.

2.0 BREAKDOWN OF GUARANTEED MAXIMUM PRICE

Proposer provides the breakdown of the Contractor’s GMP by major items of work as shown in Table 15-1. The cost breakdown should sum to a total that equals the GMP given in this Attachment 15 Section 1.0 – Total Proposed Guaranteed Maximum Price.

Table 15-1: Breakdown of Guaranteed Maximum Price

Scope Area	Cost
Site Development and Ground Improvements	
Mechanical Equipment and Piping	
Water Storage Tanks	
Pump Station Building	
Electrical, Instrumentation and Controls	
Mobilization, Demobilization, Bonds, Insurance, and Permits	
Sheeting/Shoring/Bracing per Labor Code Section 6707 (From Table 15-5)	
Allowance Items Total (From Table 15-6)	
Total GMP:	

3.0 Schedule of Values

Contractor will be required to submit a complete schedule of values upon selection to facilitate contract negotiation within ten (10) days of notice.

- A. The Schedule of values shall be a form showing a detailed breakdown of quantities and prices of work and materials required to perform and complete the contract, including voluntary proposer allowances.
- B. The Schedule of values shall provide a cost breakdown for each element detailed in the approved Construction Schedule. The total of the price breakdown must agree with the GMP. The elements listed and price breakdown shall not be front end loaded or unbalanced, shall be subject to adjustment between the ENGINEER and the CONTRACTOR, and will be used as a basis for progress payments.
- C. Acceptance of the Schedule of values shall not relieve the CONTRACTOR of the responsibility of performing all the work needed to complete the project at the GMP.

Volume 2 – Agreement incorporates additional details and definitions that pertain to the Guaranteed Maximum Price, Fee, and Cost of Work.

4.0 COST OF THE WORK

The term "Cost of Work" means the sum of all costs necessarily incurred and paid by the Contractor for labor, materials, equipment, subcontractors, special services, bonds, liability, workers' compensation and errors and omissions insurance, direct job overhead expenses, taxes and other necessary expenses incurred in the performance of the Work, that do not exceed the GMP.

4.1 Hourly Field Labor

The cost of hourly field craft labor for workers used in actual and direct performance of the work by the Contractor will be the sum of the following:

- A. The actual wages paid plus any employer payments to, or on behalf of workers for fringe benefits including health and welfare, pension, vacation and similar purposes.
- B. All payments imposed by State and Federal Laws including, but not limited to, workers' compensation insurance, and social security payments. The rates used for workers' compensation insurance shall be actual rates paid by the Contractor for each specific craft and broken down by wage rate if applicable to that craft.
- C. Actual General Liability insurance burden, if applied to Contractor's payroll.

4.2 Hourly Field Craft Labor Rates Limitations

The cost of hourly field craft labor for workers used in actual and direct performance of the work by the Contractor will be limited by the following:

- A. Except as otherwise may be agreed to in writing by the City, the actual wages and benefits paid for manual classifications of Contractor's on-site workers will not, in the aggregate, be greater than the current applicable wage for each classification as established by the State of California Department of Industrial Relations.

- B. Specifically prohibited from the labor costs are other payroll burden factors such as small tools (as defined in Attachment 15 Section 3.6-Construction Equipment), bonuses of any kind and safety incentives.
- C. The Hourly Field Labor Rates will remain unchanged for the duration of the Project unless changed in accordance with an Industry Master Labor Agreement, if the Contractor is signatory to any such Agreements, changes by the Department of Industrial Relations, or changes made company-wide in the Contractor's organization for a craft classification in the Project's geographic area. All changes to these hourly field labor rates must be submitted by the Contractor to the City for review and approval prior to billing the City for work performed with new hourly labor rates. Increase in labor rates is not an allowable increase in the GMP.

4.3 Contractor's Hourly Field Craft Labor Rates

- A. Based on the requirements and limitations of Sections; 3.1-Hourly Field Craft Labor, and 3.2- Hourly Field Craft Labor Rates Limitations, the undersigned Proposer provides their hourly field labor rates set forth in **Table 15-2** for all labor employed by Contractor used in the performance all of the Work for the West Side Tanks and Pump Station Project.
- B. The proposer is to list the crafts and classifications, up to foreman level, they anticipate using in the performance of the work when completing this **Table 15-2**. Should the contractor ultimately use a craft classification not listed in table below, the contractor will submit backup cost information for that craft classification to the city.
- C. Contractor shall include the actual travel and/or subsistence costs, if any, as a separate line item under the labor cost category when submitting progress billings to the City. Except as otherwise may be agreed to in writing by the City, the actual travel and/or subsistence costs will not be more than established in an applicable Master Labor Agreement or the State of California Department of Industrial Relations.

4.4 Management and Administrative Labor

- A. Wages and Salaries of Contractor's supervisory and administrative personnel assigned to this Project to directly manage and administer the Work: These positions may include a Principal-in-Charge, On-site Project Manager, On-site Project Engineer, On-site Superintendents, Yardman/Delivery Driver and On-site Administrative Assistant. These positions will be paid in accordance with the following Table 3 for entire duration of the Project and include all labor burden, overhead and profit mark-ups. The Principal-in-Charge can only charge for hours worked at the Site for this Project and can also charge for attendance of on-site Project Meetings. Any off-site Principal-in-Charge time spent on this Project shall be included in the Contractor's Fee Schedule for the Project under the Contractor's Fee subsection below.
- B. The Contractor is allowed to charge up to a maximum of fifty (50) hours per week for each full-time assigned supervisory and administrative personnel even if an employee works more than fifty (50) hours in a week. The Contractor can only charge for supervisory and administrative hours if they also pay those same hours to the employee that worked up to fifty (50) hours in any given week. The Contractor is not allowed to charge for any supervisory and administrative personnel hours not paid to any employee.

Other company personnel such as Corporate Officers and Division/Area Managers (unless either are designated as the Principle-in-Charge), Quality Control Managers, Safety Officers, Project Schedulers, Project Coordinators, Estimators, Business Supervisors and Accountants are not allowed to charge any hours to the Project. The Proposer should include the anticipated cost of such personnel in the Contractor's Fee Schedule for the Project under the Contractor's Fee Subsection 5.0 below.

- C. Based on the above requirements for Management and Administrative Labor, the undersigned Proposer proposes the rates set forth in **Table 15-3** for all Management and Administrative labor employed by Contractor used in the performance all of the Work for the West Side Tanks and Pump Station Project.

Table 15-3: Management and Administrative Labor Rates

Management and Administrative Position	Hourly Rate
	\$
	\$
	\$
	\$

4.5 Materials

The cost of all materials, including all factory testing, freight and delivery costs of materials, used in performing the work will be the cost to the Contractor from the supplier thereof. All discounts for early payment shall accrue to the Contractor unless the City's payment to Contractor is paid to Contractor before discount payment is due in which case discount savings will be fully credited to the City on next progress billing. All rebates and all returns from the sale of surplus materials shall be credited to the Cost of the Work. Any rebates from future use of re-usable materials, such as concrete forming materials, shall be negotiated between the Contractor and City as materials are evaluated for possible Contractor re-use on other projects.

4.6 Construction Equipment

- A.** The undersigned Proposer proposes the initial Contractor Owned Equipment Rates set forth in Table 15-4 for all Contractor Owned Equipment used in the performance all of the Work for the West Side Tanks and Pump Station Project. The rates found in this table for equipment owned by the Contractor will, in all cases, be understood to cover all fuel, supplies, repairs, maintenance, insurance, ownership, and incidental costs and no further allowances will be made for those items, unless specifically approved in writing by the City.
- B.** Equipment owned by Contractor will only be paid for the actual time equipment is used in performing work and will be rounded to the closest full hour if paid by an hourly rate.
- C.** Compensation for idle time of equipment through delays caused by the City will be made consistent with Article 9-Changes in the Work in the Design-Assist Agreement, provided as Volume 2 to the Contract Documents; however, that the Owned Equipment Rates set forth below in Table 15-4 will apply.
- D.** All changes to these equipment rates must be submitted by the Contractor to the City for review and approval prior to billing the City for work performed with new hourly labor rates. Approved changes to equipment rates are not an allowable increase in the GMP.
- E.** The Proposer is to list the contractor owned construction equipment they anticipate using in the performance of the work when completing this table. Should the contractor ultimately use equipment not listed in table below, the contractor will submit backup cost information for that equipment item to the City for approval.
- F.** Equipment not owned by Contractor which is rented by Contractor and used in performing work will be paid by the City based on actual invoiced cost to Contractor, plus actual fuel/lube costs, provided the rental rate is not in excess of rental rates established by distributors or equipment rental companies in the local area. Owner-operated equipment will also be paid by the City based on actual invoiced cost to Contractor provided the City does not deem any charges excessive. All transportation costs to move equipment on and off the Work will be paid by the City up to a maximum of four (4) hours total travel time each way.
- G.** For equipment with a value less than \$500.00: The Contractor will be paid an amount of three percent (3%) of total hourly field labor costs as defined in paragraph 3.3-Contractor's Hourly Field Craft Labor Rates above to cover the cost of small tools and safety supplies for work directly performed at the Site.

Table 15-4: Contractor Owned Equipment. Contractor Name: _____

Equipment Description	Hourly Rate	Daily Rate

Attach additional sheets as needed.

3.7 Subcontractors and Sub Tier Subcontractors

The Contractor will be paid for all work performed by a subcontractor at the actual invoiced amount. Should a Subcontractor be required to perform extra work caused by a contract change order, the subcontractor will be allowed a mark-up as provided for in the General Conditions.

3.8 Bonds and Insurance

The Contractor will be paid the actual cost for the 100% payment bond and 100% performance bond, as well as the cost of all insurance costs required for the Work (such costs are deemed a Cost of Work and are therefore contained within the GMP). Additional details regarding requirements for Bonds and Insurance are included in Volume 2 of the Contract Documents – Agreement Article 11 – Insurance and Bonds; Indemnification.

3.9 Direct Job Overhead Expenses

The Contractor will be paid for the actual cost of job overhead expenses which may include such expenses as office trailers, storage vans, temporary fencing/security, toilets, dumpsters, waste removal, water, utility power, jobsite landline telephone costs, jobsite internet provider costs, reasonable room and board subsistence for employees who live farther than 40 miles from the Work Site or as required by California prevailing wage laws, copy machine, water cooler and any office furniture required for the Work needs, including mobilization and demobilization of same. There will be no warranty reserve.

3.10 Taxes

The Contractor acknowledges it will be liable for all sales, use, gross receipts or other taxes, tariffs or duties related to the Work and that these taxes and tariffs are included in the GMP. All invoices to the City will include the applicable taxes and tariffs that are the Contractor's responsibility and will not be shown as a separate line item on the Contractor's invoice.

4.0 CALIFORNIA LABOR CODE SECTION 6707

Pursuant to the provisions of California Labor Code Section 6707, each Proposal submitted in response to this RFP shall contain, as a separate cost item, adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life or limb in trenches and open excavation, exceeding five (5) feet, which shall conform to applicable safety orders. By entering an amount for this cost item below, the Proposer warrants that its action does not convey tort liability to the City, the Engineer, the Construction Manager, the Funding Agencies and their respective officers, employees, agents, and subconsultants.

Table 15-5: Total Amount for Worker Protection for CA Labor Code Section 6707

Protection in trenches and Open Excavations - Description	Total Cost
	\$

5.0 SPECIAL SERVICES

Special work or services are defined as that work not included in this agreement and characterized by extraordinary complexity, sophistication, or innovation or a combination of the foregoing attributes which are unique to the construction industry. These special services may include such services as registered land surveyor, licensed geotechnical engineer, licensed structural engineer, special testing or laboratory work. The Contractor will be paid for special services based on actual invoiced cost, provided the City does not determine any special services costs to be excessive.

6.0 VOLUNTARY PROPOSER ALLOWANCES

The Proposer is allowed to propose allowances for minor portions of the Work. Proposers are limited to a maximum of three (3) proposed allowances and the total amount for all proposed allowances cannot exceed One Hundred Fifty Thousand Dollars (\$150,000.00).

Each proposed allowance description should be well-defined. There is no scoring points assigned to any proposed allowances, but they may be discussed during the final negotiations with the highest ranked

Proposer. Proposers are not required to propose an allowance item; it is strictly voluntary. Allowances shall not be considered for compensation as defined in Attachment 16 – PROPOSED SHARED SAVINGS.

The following Proposer's cost allowances and allowance amounts are included in the GMP:

Table 15-6: Proposer's Cost Allowances

Item#	Allowance Description	Allowance Amount
1		\$
2		\$
3		\$
	Total of Allowances:	\$

7.0 ITEMS NOT INCLUDED IN THE COST OF WORK:

- A.** Salaries and other compensation of Contractor's personnel stationed at Contractor's principal office or offices other than the Site, except as specifically provided in this Attachment 15 Section 3.4 – Management and Administrative Labor.
- B.** Expenses of Contractor's principal office and offices, other than the Site office.
- C.** Contractor's General Overhead and Expenses, except as specifically provided for in the Contract Documents.
- D.** The capital expenses of Contractor, including interest on capital employed for the Work and charges to Contractor for delinquent payments.
- E.** Hours in excess of fifty (50) hours per week for each full-time assigned supervisory and administrative personnel even if a supervisory or administrative employee works more than fifty (50) hours in a week.
- F.** Costs due to correction of Defective Work, disposal of materials or equipment wrongfully supplied, and making good any damage to property.
- G.** Costs that would cause the GMP to be exceeded.
- H.** Any costs incurred after Owner's Final Acceptance of the Project.

8.0 CONTRACTOR'S FEE MARKUPS

- A. The undersigned Proposer proposes the following mark-up fees for general overhead and profit in the performance all of the Work for the West Side Tanks and Pump Station Project as shown in Table 15-7.

Table 15-7: Contractor's Fee Mark-up Schedule

Attachment 15 Section	Cost Category	Fee Mark-Ups For General Overhead And Profit
3.1-3.3	Hourly Field Labor	%
3.4	Management and Administrative Labor	Included in hourly rates
3.5	Materials	%
3.6	Construction Equipment	%
3.7	Subcontractors	%
3.8	Bonds and Insurance	%
3.9	Direct Job Overhead Expenses	%
3.10	Taxes	%

- B. Based on the above percentages for each cost category, the Proposed Total Fee Markup-for General Overhead and Profit percentage included in the Contractor's GMP is ____%.

****END OF ATTACHMENT 15****

Attachment 16 – PROPOSED SHARED SAVINGS

West Side Tanks and Pump Station

In the event the final Cost of Work, plus the Proposed Total Fee Mark-up for General Overhead and Profit, is less than the GMP, as adjusted by the Change Orders, the undersigned Proposer proposes a sharing of the savings as follows.

_____ % of the savings to the City

_____ % of the savings to the Contractor

Percent of Savings to the contractor must be a minimum of 20% plus the Total Fee Markup percentage for General Overhead and Profit as shown in the GMP (Attachment 15, Paragraph 7.0.B).

Should there be savings shared, City will pay the Contractor its share of the savings at the same time as the final retention payment.

****END OF ATTACHMENT 16****

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Attachment 17 - PROPOSAL ENVELOPE LABEL

SEALED PROPOSAL



**IMPORTANT
NOTICE TO
PROPOSER**

- The envelope containing your proposal **MUST** have:
1. Your name and address in the **UPPER** left corner.
 2. This label on the **LOWER** left corner.

RFP NAME

PROPOSAL DUE DATE

PROPOSAL DUE TIME

_____ A.M. _____ P.M.
PROPOSAL FOR

**TIME SENSITIVE. DELIVER TO
CITY CLERK IMMEDIATELY.**

****END OF ATTACHMENT 17****

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Attachment 18 – ESCROW PROPOSAL DOCUMENT CERTIFICATION

"ESCROW PROPOSAL DOCUMENT CERTIFICATION"

THE UNDERSIGNED HEREBY CERTIFIES THAT THE PROPOSAL DOCUMENTATION CONTAINED HEREIN CONSTITUTES ALL THE INFORMATION USED IN PREPARATION OF THE PROPOSAL AND THAT I HAVE PERSONALLY EXAMINED THESE CONTENTS AND HAVE FOUND THAT THIS PROPOSAL DOCUMENTATION IS COMPLETE.

SIGNATURE: _____

NAME: _____

(Print)

TITLE: _____

FIRM: _____

DATE: _____

****END OF ATTACHMENT 18****

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Attachment 19 – PROPRIETARY INFORMATION STATEMENT

Complete and sign one of the following statements.

No Proprietary Information

Contractor hereby certifies that nothing contained in the submitted Proposal is to be proprietary information.

NAME OF BUSINESS

SIGNATURE

NAME & TITLE, TYPED OR PRINTED

Existence of Proprietary Information.

Contractor desires to claim a privilege against public disclosure for a trade secret or other proprietary information.

NAME OF BUSINESS

SIGNATURE

NAME & TITLE, TYPED OR PRINTED

****END OF ATTACHMENT 19****

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13.0 ADDITIONAL CONTRACT DOCUMENTS

The following additional contract documents are incorporated by reference here to the West Side Tanks and Pump Station Project.

VOLUME 2 OF 4 - AGREEMENT

VOLUME 3 OF 4 - SPECIFICATIONS

VOLUME 4 OF 4 – DRAWINGS

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CONTRACT DOCUMENTS FOR

DESIGN-ASSIST AND CONSTRUCTION OF

WESTSIDE TANKS AND PUMP STATION PROJECT

VOLUME 2 of 4:

AGREEMENT

INCLUDING:

Agreement and Agreement Exhibits

May 6, 2020

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DESIGN-ASSIST CONSTRUCTION AGREEMENT

WESTSIDE TANKS AND PUMP STATION

This Design-Assist Construction Agreement (“Agreement”) is made and entered into on this ____ day of _____, 20____, by and between the CITY of Roseville, a municipal corporation (“CITY”), and Auburn Constructors, LLC (CSLB License #_1043407 A, B, C10), doing business as a Limited Liability Corporation hereinafter referred to as “CONTRACTOR”).

RECITALS

WHEREAS, the CITY has issued a Request for Proposals (“RFP”) pursuant to which CITY solicited proposals from design-assist contractors to construct the Westside Tanks and Pump Station Project (Project); and

WHEREAS, CONTRACTOR has submitted a Proposal, dated __January 30, 2020__ attached hereto and made a part hereof as Exhibit B – Scope of Work from Contractor’s Technical Proposal, and CITY has selected CONTRACTOR to provide design and construction services as set forth in this Agreement; and

WHEREAS, CONTRACTOR is ready, willing and able to perform the aforementioned services required in accordance with the terms and conditions of this Agreement; and

NOW, THEREFORE, CITY and CONTRACTOR agree as follows:

ARTICLE 1 - DEFINITIONS OF LANGUAGE USED, WORDS AND TERMS

Where used in the Contract Documents, the following words and terms shall have the meanings indicated. The meanings shall be applicable to the singular, plural, masculine and feminine of the words and terms.

The Contract Documents include the terms “as allowed,” “as approved,” “as ordered,” “as directed” or terms of like effect to authorize an exercise of professional judgment by the CITY, Construction Manager or Engineer. The adjectives/terms “reasonable,” “suitable,” “acceptable,” “proper,” “satisfactory,” and “of like effect” are used to describe an action or determination of the CITY, Construction Manager or Engineer as to the Work. It is intended that such exercise of professional judgment, action or determination will be solely to evaluate, in general, the Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term is not intended to and shall not be effective to assign to CITY, Construction Manager or Engineer any duty or authority to supervise or direct the performance of the Work or any duty or authority contrary to the other provisions of the Contract Documents.

Specification Section Paragraphs entitled "Section Includes" summarize briefly what is generally included in the section. Requirements of Specifications are not limited by "Section Includes" paragraphs.

Specifications and Drawings have been partially streamlined by intentionally omitting words and phrases, such as "the Contractor shall," "in conformity therewith," "shall be" following "as indicated," "a," "an," "the" and "all." The phrases "by CITY’s Representative", “by Engineer”, and “by Construction Manager” modify words such as "accepted," "directed," "selected," "inspected," "permitted," “submit”,

“report”, and “satisfactory” when they are unmodified. Words "Contractor shall" are implied when direction is stated.

Colons (:) are used to introduce a list of particulars, an amplification, or an illustrative quotation. When used after designation of product, colons are used in place of words “shall be.”

Whether the term or phrase is capitalized or in all capitals (for example, Contractor or CONTRACTOR) in the Contract Documents shall be deemed to be the same for purposes of the Definitions of Language Used, Words and Terms.

- 1.1. **“Agreement” or “Contract”** means this Design-Assist Construction Agreement, its exhibits, and all amendments and/or modifications hereto executed by the parties. The defined terms “Contract” and “Agreement” may be used throughout interchangeably and should be considered as one in the same defined term.
- 1.2. **“Allowance” or “Construction Allowance”** is an amount of money set aside under the Contract for a special purpose identified and defined in the Contract Documents. Voluntary Allowance items are described by Contractor in Exhibit C – Guaranteed Maximum Price, Fee, and Cost of Work and are included in the total GMP.
- 1.3. **“Applicable Laws”** means all laws, codes, ordinances, rules and regulations of **governmental** authorities having jurisdiction over the Site and/or the Work.
- 1.4. **“Application for Payment”** means the document prepared by CONTRACTOR and **submitted** to CITY showing CONTRACTOR’s entitlement to progress payments, the requirements of which are more fully described in Article 8 hereof.
- 1.5. **“Architect/Engineer”** means a licensed professional(s) (and/or entity(ies)) retained by CITY, who provides architectural, design and/or engineering services as may be required by the Work. The Architect/Engineer shall be registered in the State of California and the architect and/or engineer of record for the Work pursuant to their design responsibilities. The Architect/Engineer may be substituted or replaced at the discretion of CITY.
- 1.6. **“Asbestos”** is any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.
- 1.7. **“Authorized Representatives”** means the Design-Assist Team and those individuals appointed by CITY and CONTRACTOR from time to time in accordance with the provisions of Article 4.2.1.
- 1.8. **“Beneficial Occupancy” or “Beneficial Occupation”** is a term that can be used to describe a distinct portion of the Work, that in the CITY’s Representative’s opinion, is capable of being used for its intended purpose, even though it may have some minor deficiencies, including outstanding punch list items to complete.
- 1.9. **“Business Day”** means any day when the office of the CITY Clerk of the CITY of Roseville is open for business.
- 1.10. **“Certificate of Substantial Completion”** means a certificate prepared by CONTRACTOR in accordance with Article 8.13 and forwarded to CITY.
- 1.11. **“Certificate of Final Completion”** means a certificate prepared by CONTRACTOR and forwarded to CITY stating that the Project is finally complete and that CONTRACTOR is entitled to Final Payment in accordance with Article 8.14 hereof.
- 1.12. **“Change Directive”, “Change Order”, or “Construction Change Directive (CCD)”** is a written order prepared by the Construction Manager and signed by the CITY, directing a change

in the Work and stating a proposed basis for adjustment, if any, in the Contract GMP amount or Contract Time.

- 1.13. **“Change Proposal”** means a proposal for a Change Order submitted by CONTRACTOR to CITY, either at the request of CITY, or at CONTRACTOR's own initiative.
- 1.14. **“CITY”** refers to the CITY of Roseville, the governing body of which is termed the “CITY Council”.
- 1.15. **“CITY’s Representative”** is the person(s) designated by the Director of the CITY’s Environmental Utilities Department who has been duly authorized to exercise control and supervision of the Work. A CITY’s Representative generally will be either a professional engineer or architect, depending on the nature of the Work, but is not required to be a professional engineer or architect. The CITY may change the individual(s) acting as the CITY’s Representative(s), or delegate one or more specific functions to one or more specific CITY’s Representative at any time without notice and without liability to Contractor. Each CITY’s Representative is the beneficiary of all Contractor obligations to CITY, including without limitation, all releases and indemnities
- 1.16. **“Claim”**. A demand or assertion by the Contractor seeking an adjustment of the GMP or Contract Times, or both, or other relief with respect to the terms of the Contract. A demand for money or services by a third party is not a Claim.
- 1.17. **“Construction Documents”** means the plans and specifications prepared by the Design Assist Team for the Project, approved by CITY, and incorporated into this Agreement by reference after such approval, to be used to construct the Project. The Construction Documents shall set forth in detail all items necessary to complete the construction of the Project in accordance with the Contract Documents (subject to their completion following commencement of the Construction Phase). All amendments and modifications to the Plans and Specifications must be approved by CITY prior to incorporation into this Agreement. CONTRACTOR’s attention is hereby directed to the confidentiality requirements of Article 2.12.
- 1.18. **“Construction Consultant”**. The CITY may retain a Construction Consultant(s) as it deems necessary to assist/advise the CITY staff and/or other CITY consultants during the progress of the Work. Any Construction Consultant retained by CITY for this Project will not have any formal contract administration responsibilities. The Construction Consultant(s) is the beneficiary of all Contractor obligations to CITY, including without limitation, all releases and indemnities.
- 1.19. **“Construction Manager”** is the person designated, in writing, by the CITY to act as its representative at the Site and to perform administrative functions relating to this Agreement. The Construction Manager shall also furnish inspection services as provided by the contract between the Construction Manager and the CITY. All contact between the Contractor and the CITY shall be through the Construction Manager; unless otherwise specified or directed. Only the CITY may modify the Agreement. The CITY may assign all or part of the CITY’s Representative’s duties, rights and responsibilities to the Construction Manager. The Construction Manager is the beneficiary of all Contractor obligations to CITY, including without limitation, all releases and indemnities.
- 1.20. **“Construction Phase”** means the period beginning with the issuance of the Construction Notice to Proceed (NTP) and ending on the date of Final Completion of the Project.
- 1.21. **“Construction Work”** means that portion of the Work consisting of the provision of labor, materials, equipment and services in connection with the construction of the Project as set forth in the Contract Documents.
- 1.22. **“Contingency Costs”** means those items of Cost of the Work attributable to a contingency for

which CITY is responsible and which are payable by CITY to CONTRACTOR pursuant to a Change Order as provided in Article 9.7-CHANGE ORDERS ON ACCOUNT OF CONTINGENCIES.

- 1.23. **“Contract”** means this Design-Assist Construction Agreement, its exhibits, and all amendments and/or modifications hereto executed by the parties. The defined terms “Contract” and “Agreement” may be used throughout interchangeably and should be considered as one in the same defined term.
- 1.24. **“Contract Documents”** means 1) the Request for Proposals (and Contractor’s Proposal), 2) this document (Agreement) and its Exhibits, 3) the Technical Specifications, and 4) Project Drawings, all of which form the entire integrated agreement between CITY and CONTRACTOR. In the event of a conflict between any of these documents, this Agreement controls, followed by its Exhibits.
- 1.25. **“Contract Time”** The number of days or the dates stated in the Agreement to: (i) achieve Milestones, (ii) achieve Substantial Completion; and (iii) complete the Work so that it is ready for final payment as evidenced by Construction Manager’s written recommendation of final payment. See Exhibit H - COMPLETION TIMES AND LIQUIDATED DAMAGES.
- 1.26. **“CONTRACTOR”** means the individual or entity identified in the preamble to this Agreement.
- 1.27. **“CONTRACTOR’S Plant and Equipment”** means the equipment, material, supplies and all other items, except labor, brought onto the Site by the Contractor to carry out the Work, but not to be incorporated in the Work.
- 1.28. **“CONTRACTOR Event of Default”** shall have the meaning set forth in Article 14.1 hereof.
- 1.29. **“Cost of the Work”** consists of those items of Work, which are paid for by CITY to CONTRACTOR, and consist of those categories of costs set forth as allowable on Exhibit C.
- 1.30. **“County”** refers to Placer County where the Site is located.
- 1.31. **“CPM”** means a critical path method schedule in the form of precedents, networks and time sequences.
- 1.32. **“Day” or “Days”** means calendar days, including legal holidays, Saturdays and Sundays, unless specifically noted otherwise. The day shall be 24 hours measured from midnight to the next midnight.
- 1.33. **“Defective Work”** refers to Work that does not meet the requirements of the Contract Documents and has been identified to the Contractor by the Construction Manager in writing because the Work:
 - a. Does not meet the requirements of or conform to the Contract Documents; or
 - b. Does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or
 - c. Has been damaged prior to Construction Manager’s or Engineer’s recommendation of final payment (unless responsibility for the protection thereof has been assumed by CITY as of the Substantial Completion date in accordance with the Contract Documents).

Punch list or other minor corrective items of work that are not in compliance with the Contract Documents do not meet to the definition of “Defective Work” as used in these Contract Documents. For work to be deemed “Defective Work,” the Construction Manager must have notified the Contractor in writing of a defective item of the Work.

- 1.34. **“Design-Assist Team”** includes the following: Architect/Engineer; CONTRACTOR; and/or others as coordinated by CONTRACTOR and CITY.
- 1.35. **“Design Development Documents”** means the drawings, specifications and other documents prepared by the Design-Assist Team for CITY's review and approval prior to the preparation of the Construction Documents. The Design Development Documents shall illustrate the scale and relationship of Project components, outline the nature and structural exterior and three dimensional scale of the Project and shall fix and describe in detail the configuration and character of the Project concerning all items of the Project necessary for the complete and final preparation of the Construction Documents in accordance with the requirements of the Contract Documents, including architectural and electrical systems, materials and such other elements as may be appropriate. CONTRACTOR's attention is hereby directed to the confidentiality requirements of Article 2.12.
- 1.36. **“Design Materials”** means any and all documents, shop drawings, electronic information, data, plans, drawings, sketches, illustrations, specifications, descriptions, models and other information developed, prepared, furnished, delivered or required to be delivered by CONTRACTOR to CITY under the Contract Documents or developed or prepared by CONTRACTOR specifically to discharge its duties under the Contract Documents. CONTRACTOR's attention is hereby directed to the confidentiality requirements of Article 2.12.
- 1.37. **“Design-Assist Work”** means that portion of the Work consisting of the design-assist services required to be provided in connection with the Architect/Engineer's design of the Project as set forth in the Contract Documents, which shall be performed consistent with the standards of care set forth herein.
- 1.38. **“Direct”** is an action of the CITY or Construction Manager by which the Contractor is ordered to perform or refrain from performing work under the Agreement.
- 1.39. **“Drawings”**, also referred to as **“Plans”** are that part of the Contract Documents consisting of the graphical and technical requirements of the Agreement as included on the plan, profile, section and detail sheets, included in a response to Request for Information or any revisions issued by Engineer. Drawings, or reproductions thereof, show the location, character, dimensions and details of the Work to be done. Shop drawings and other Contractor submittals are not Drawings as so defined.
- 1.40. **“Engineer”**. The engineer, architect or specialty design consultant designated by the CITY to have design control over the Work or a specified portion of the Work, acting either directly or through duly authorized representatives. Such representatives shall act within the scope of the particular duties delegated to them. The Engineer may also furnish inspection services as provided by the Agreement. The Engineer may also be referred to as the “CITY's Representative” if the definition is used in an Engineer role and capacity. The CITY may assign all or part of the CITY's Representative's duties, rights and responsibilities to the Engineer. The Engineer is the beneficiary of all Contractor obligations to CITY, including without limitation, all releases and indemnities.
- 1.41. **“Equipment”** (Construction) is all machinery and equipment, together with the necessary supplies for upkeep and maintenance, including tools and apparatus necessary for the proper construction and acceptable completion of the Work contemplated. Equipment (Installation) is all material or articles used in equipping a facility or apparatus required to fulfill a functional design.
- 1.42. **“Execution”** means field or site performance, workmanship, installation, erection, application, field fabrication, quality control, and protection of installed products on the Site.

- 1.43. **“Excusable Delay”** shall have the meaning set forth in Article 7.3.3.
- 1.44. **“Extra Work”** is new or unforeseen work, or added work of a different character or function; or that involves revisions of the details of the Work on which Contractor based its GMP. If the extra work increases the Contractor’s Cost of the Work and/or time to perform the Work, and is approved by the CITY via a written Change Order, the GMP and/or Contract Times shall be adjusted as provided in the Contract Documents. Extra Work shall not include Work which is shown, detailed or specified in the Contract Documents or which constitutes “Incidental Work” as defined within the Contract Documents definition below.
- 1.45. **“Fee”**, if applicable, means the fee payable to CONTRACTOR pursuant to this Agreement and as part of the GMP, if shown on Exhibit C – GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE attached hereto.
- 1.46. **“Field Directive”** is a change in the scope of the Agreement that does not cause an increase in the Cost of the Work, nor an adjustment to the GMP or the Contract Time(s), unless the Construction Manager determines the Field Directive warrants a Change Order.
- 1.47. **“Field Order”** is a written instruction given to the Contractor by Construction Manager authorizing work that is a change to the scope of Work to be performed on a time and material basis or a lump sum cost agreed to between CITY and the Contractor and documented in a Change Order.
- 1.48. **“Final Acceptance”** is the formal approval by CITY in accepting a portion of the Contractor’s work as completed.
- 1.49. **“Final Completion”** means the date when the work is 100% complete in accordance with the terms and conditions of the Contract Documents, including completion of all Punch list items as certified by the Construction Manager.
- 1.50. **“Force Majeure”** includes industry wide or nationwide labor dispute (excluding labor shortage), fire, unusual delay in transportation or delivery, unavoidable casualty, flood (assuming CONTRACTOR has taken reasonable precautions), earthquake, epidemic, civil disturbance, war, freight embargo, riot, sabotage (by persons other than CONTRACTOR or Subcontractors), material shortage or any other similar act or condition, in each case only to the extent the event in question is beyond the reasonable control of and without the fault or negligence of CONTRACTOR. It is expressly agreed that the following matters shall not constitute Force Majeure:
- a. Lack of or inability to use funds for any reason;
 - b. Any occurrence which results from the wrongful act, or wrongful omission, of the affected party, or the failure by the affected party to act in a prudent and proper manner and in accordance with good and accepted industry practices;
 - c. Any failure by the affected party to reach agreement with any third party necessary to enable the affected party to perform its obligations under this Agreement;
 - d. An event or circumstance, where the event or circumstance, or its effects on the affected party, or the resulting inability of the affected party to perform its obligations could have been prevented, overcome or remedied by the exercise by the affected party of the standard of care and diligence consistent with that of a reasonable and prudent person;
 - e. Breakdown of Contractor’s Equipment;
 - f. Strike or industrial action of Contractor’s employees or those of subcontractors; or
 - g. Adverse weather conditions including, without limitation, wet weather, unless the

weather is unusually severe for the Site.

- 1.51. **“Governmental Approvals”** means those CITY approvals necessary for the completion of the Project, including, but not limited to, modification of existing zoning, vacation of certain streets and/or alleys, and modifications to or variances from applicable building or zoning regulations.
- 1.52. **“Guaranteed Maximum Price” or “GMP”** means the amount set forth on Exhibit C- GUARANTEED MAXIMUM PRICE, FEE, AND COST OF WORK hereto, which may be increased or decreased in accordance with the provisions of the Contract Documents.
- 1.53. **“Hazardous Materials”** means those items identified on Exhibit E-HAZARDOUS MATERIALS hereto.
- 1.54. **“Holidays”** are the legal holidays as designated by the CITY including: New Year’s Day, Martin Luther King Jr. Day, President’s Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran’s Day, Thanksgiving Day, the day after Thanksgiving and Christmas Day.
- 1.55. **Incidental Work.** Incidental work includes reasonably implied parts of the not shown on Drawings nor described in Specifications, but which is necessary or normally or customarily required as a part of the Work shown on the Drawings or described in the Specifications to provide a complete installation which is fully connected and tied into the existing facilities and processes and is fully functional and operational. Incidental work shall be treated as if fully described in Specifications and shown on Drawings, and expense thereof shall be included in the GMP. Incidental work shall be performed by Contractor and included in the Cost of the Work without an increase in the GMP.
- 1.56. **“Indemnified Parties”** includes, but is not limited to, CITY, its agents, officers, employees, and volunteers.
- 1.57. **“Inspector”** shall mean the person(s), firm(s), or agency(ies) employed by the CITY to perform inspection during construction of the Work, under the direction of the Construction Manager. It shall also mean any representative of the CITY who will perform inspections of the Work for code compliance and quality assurance reporting in addition to those inspections performed by the CITY’s Representative and/or the Engineer. Said inspector may be the Construction Manager or may be another representative of the CITY.
- 1.58. **“Liquidated Damages”** means the damages payable by CONTRACTOR to CITY in the event CONTRACTOR does not achieve project Milestones Final Completion of the Project by the date required on the Schedule, as adjusted, as more fully described in Article 7.5 and Exhibit H- COMPLETION TIMES AND LIQUIDATED DAMAGES hereof.
- 1.59. **“Modification”** means an amendment to this Agreement executed by the parties after the date hereof.
- 1.60. **“Non-Excusable Delay”** shall have the meaning set forth in Article 7.3.2.
- 1.61. **“Notice of Completion”** is the formal action taken by the CITY in determining that the Contractor’s Work has been completed, or as delegated pursuant to a CITY Council resolution, accepting the Work as fully completed. The written notice is signed by the CITY and filed with the County Recorder.
- 1.62. **“Notice to Proceed” (NTP)** is the written notice given by the CITY to the Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work under the Contract Documents.
- 1.63. **“Or Equal”** means any product, equipment, material, thing, service, mean/method or service which is proposed by the Contractor for use in the Work, which is equal to or better than, and is

as suitable as the product, equipment, material, thing, service, mean/method or service specified in the Contract Documents as to function, performance, reliability, quality, schedule and general configuration. Any “or equal” substitutions must be approved by the CITY.

- 1.64. **“Owner”** refers to the CITY, or authorized representative as approved by the CITY.
- 1.65. **“Party”** shall mean CITY or CONTRACTOR individually, and **“Parties”** shall mean CITY and CONTRACTOR collectively.
- 1.66. **“Payment and Performance Bonds”** means the payment bond and performance bond issued by an admitted Surety covering the faithful performance and completion of the Construction Work, including payment for all materials and labor furnished or supplied in connection with the Construction Work, by CONTRACTOR. Such bonds shall be in the form described in Exhibit G-BOND FORMS.
- 1.67. **“Plans”**. See “Drawings”.
- 1.68. **“Project”** means the design and construction of the project described in the Recitals, together with all on-site infrastructure, site improvements and appurtenances to be designed, constructed and installed in connection therewith, as more fully set forth and described in the Contract Documents and as required thereby or reasonably inferred therefrom.
- 1.69. **“Project Manager”** means the person assigned by the Director of the CITY’s administering department to monitor the Project and Work.
- 1.70. **“Proposal”** is the offer of a Proposer to perform the Work pursuant to completed prescribed Bid Proposal requirements and forms, properly executed and guaranteed, and timely submitted.
- 1.71. **“Punch List”** means those minor items of Work to be completed after Substantial Completion and prior to Final Completion, which do not prevent the Project from being used for the purpose for which it is intended and which will not prevent beneficial occupancy or use.
- 1.72. **“Reference Specifications”** are those standards, rules, method of tests or analysis, codes, and specifications of other agencies, engineering societies, or industrial associations referred to in the Contract Documents.
- 1.73. **“Request for Information”** also referred to as “Request for Clarification”. A Request for Information (RFI) is issued by the Contractor to the Construction Manager requesting additional information necessary to clarify or amplify an item in the Contract Documents that the Contractor believes is not clearly shown or called for in the Drawings or Specifications or other portions of the Contract Documents, or to address problems which have arisen under field conditions. A RFI is not to be used for request for materials/equipment substitutions or value engineering/cost reduction incentive proposals.
- 1.74. **“Request for Quotation”** is a request for a proposed cost made to the Contractor by the CITY to add, delete or change the Work. A Request for Quote (RFQ) shall not be deemed to be a direction to proceed with any addition, deletion or change to the Work.
- 1.75. **“Retention”** means the amount withheld from progress payments from CITY to CONTRACTOR from time to time, as more fully described in Article 8.6-RETENTION, ESCROW AGREEMENT, FINAL PAYMENTS hereof.
- 1.76. **“Samples”** refers to physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.
- 1.77. **“Schedule”** means the schedule pursuant to the Proposal and/or other Contract Documents to which CONTRACTOR has agreed to complete the Work. The Schedule shall be adjusted

pursuant to the provisions of the Contract Documents. In the event the Schedule is not contained within the Proposal, then CONTRACTOR shall provide to CITY, within fifteen (15) days of issuance of a Notice To Proceed by CITY, with a complete milestone schedule identifying, among other things, critical paths (if any) and total calendar days until Substantial and Final Completion. In the event the Schedule is contained in the Proposal, the start of the Schedule shall be adjusted by the CONTRACTOR to reflect the date of the Notice To Proceed.

- 1.78. **“Scheduled Date of Substantial Completion”** means the date CONTRACTOR has agreed to achieve Substantial Completion of the Project in accordance with the Schedule, as adjusted.
- 1.79. **“Scope Change Costs”** means those items of Cost of the Work attributable to changes in scope of the Work and payable by CITY to CONTRACTOR pursuant to a Change Order, as provided in Article 9-CHANGES IN THE WORK.
- 1.80. **“Separate Contractors”** means those individuals or entities (including, but not limited to, concessionaires) who have entered into arrangements with CITY for the provision of labor, materials or other services in connection with the Project.
- 1.81. **“Shop Drawings (Submittals)”** are drawings, diagrams, illustrations, schedules, performance charts, instructions, brochures, and other data which are prepared by the Contractor or any subcontractor, manufacturer, supplier, or distributor and which illustrate some portion of the Work.
- 1.82. **“Site”** is the real property on which the Project will be located.
- 1.83. **“Specifications”** are that part of the Contract Documents consisting of written descriptions of the technical features of materials, equipment, construction systems, standards, and workmanship.
- 1.84. **“Specify”** refers to information described, shown, noted or presented in any manner in any part of the Agreement.
- 1.85. **“State”** is the State of California.
- 1.86. **“State of California Specifications”** are the State of California Department of Transportation Standard Specifications in effect as documented in the Specifications and/or Drawings. Also referred to as State Standard Specifications and Caltrans Standard Specifications.
- 1.87. **“Subcontract”** means an agreement between CONTRACTOR and another person or entity engaged to perform a portion of the Work.
- 1.88. **“Subcontractor”** means an individual or entity who has entered into an agreement with CONTRACTOR or another Subcontractor for the provision of labor, materials or other services required to be performed by CONTRACTOR under the Contract Documents.
- 1.89. **“Subcontractor-KEY”**. Key subcontractors are defined as a subcontractor who will perform greater than or equal to twenty-five percent (5% of the GMP).
- 1.90. **“Subcontractor-MAJOR”**. Major subcontractors are defined as a subcontractor who will perform greater than five percent (20%) of the GMP.
- 1.91. **“Subcontractor-LISTED”**. Listed subcontractors are defined as a subcontractor who will perform greater than one half percent (>0.5%) of the GMP.
- 1.92. **“Submittals”** are the information which is specified for submission to the Construction Manager in accordance with the Contract Documents.
- 1.93. **“Substantial Completion”** means the stage in the progress of the Work when the Work or a designated portion thereof is sufficiently complete in accordance with the Contract Documents

so that CITY may use the Project for its intended purpose. Determination of Substantial Completion is solely at the discretion of the CITY. Substantial Completion does not mean complete in accordance with the Agreement nor shall Substantial Completion of all or any part of the Project entitle the Contractor to Final Completion under the Agreement.

- 1.94. **“Surety”** means one or more issuers of the Payment and Performance Bonds, each of which shall be admitted and licensed to do business in the State of California.
- 1.95. **“Surveyor”** means a land surveyor licensed in the State of California.
- 1.96. **“Trade Names”**. Where a certain product is called by its Trade Name, it is intended as a guide for type and quality.
- 1.97. **“Typical Details”** are details of standard structures, devices or instructions referred to on the Plans and Specifications by title or number and developed by the Engineer.
- 1.98. **“Underground Facilities”** means all underground pipelines, including but not limited to, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electrical, gases, steam, liquid petroleum products, telephone or other communications, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.
- 1.99. **“Unit Price Work”** is work to be paid for on the basis of unit prices.
- 1.100. **“Utility”** is a public or private fixed works for, including but not limited to, the transportation of fluids, gasses, power, signals, or communications.
- 1.101. **“Work” or “Scope of Work”** means the Project, inclusive of all labor, materials and services required to be performed or provided by CONTRACTOR officers, employees, agents, Subcontractors or Suppliers pursuant to the provisions of this Agreement and its Exhibits.
- 1.102. **“Work Day”**. A working day is defined as any day, except Saturdays, Sundays and CITY’s Legal Holidays. Any work scheduled by the Contractor on non-working days (Saturdays, Sundays, and CITY Legal Holidays) shall be verified with the CITY at least 72 hours in advance. Depending on the circumstances, the CITY may request Contractor compensation for inspection work, at an hourly rate, for any work performed on non-working days and for overtime.

ARTICLE 2 - SCOPE OF WORK / PROJECT REQUIREMENTS

2.1 Scope of Work Summary

The CITY, in conjunction with its Engineer and other consultants, developed the Design-Assist and Construction Contract Documents for the Westside Tanks and Pump Station Project. The Work includes but is not limited to Construction of two (2) new six (6) million gallon water storage tanks, New CMU block Booster Pump Station building and equipment, Tank valve vault, Electrical site work and 1,500 kW standby diesel generator, Electrical switchgear, Instrumentation and Controls, Contractor Design Assist Responsibilities, and all other miscellaneous improvements in support of the Project, including asset management, start up and testing to provide a complete, integrated and operational system in all respects.

Based on the Final Design Submittal, and in accordance with the Contract Documents, the Contractor is a Design-Assist Team member with responsibility to complete the following design assist activities. Coordination with other members of the Design-Assist Team will be required; the City, Engineer, Construction Manager and possibly other personnel that have regulatory or funding authority.

- A. Conduct a constructability review of the Final Design Submittal Drawings and Specifications, and submit comments and identified mitigation solutions to the City.
- B. Identify cost savings and added value alternative design/construction solutions, and submit to the City for evaluation.
- C. Develop detailed cost estimates for identified alternatives when requested by City for the City's evaluation.
- D. Identify construction sequencing and the impacts of the identified alternatives on the sequencing.
- E. Develop a detailed schedule and the impacts of the identified alternatives on the schedule.
- F. Participate in a cooperative partnership relationship with City, Engineer, and Construction Manager to develop a comprehensive construction plan to address project risk and minimize existing facility disruptions.
- G. Participate in up to eight (8) Final Design Coordination Meetings lasting up to four (4) hours each to present and work collaboratively to allow for issuance of the Project Drawings and Specifications for construction.

Note that the Engineer is the entity professionally responsible for the design of the Project. City acknowledges that Contractor is a general contractor and not an architect or engineer. Except with respect to any subcontractors of Contractor providing architectural or engineering services for the Project as design-build work, the Contractor's review of or input for any design documents, or Contractor's recommendation for any design concepts, is made solely in Contractor's capacity as a licensed contractor and not as a licensed design professional. Contractor is not responsible for any errors in the Engineer's design or failure of the design to comply with applicable laws, codes, rules and regulations, or lawful orders of public authorities. However, if Contractor observes any such nonconformity or errors it shall promptly notify City's Representative and the Engineer.

2.2 Performance of Work

CONTRACTOR shall perform the Work in accordance with this Agreement. CONTRACTOR covenants and agrees that it shall be responsible for performing and completing, and for causing all Subcontractors to perform and complete, the Work in accordance with the Contract Documents, standard professional and trade practices, Local Ordinances, and Applicable Laws. CONTRACTOR covenants that the Work and the materials provided thereunder shall be appropriate for the purposes stated in the Request for Proposal and Proposal. Although it is the responsibility of CONTRACTOR to conform the Work to Applicable Laws at all times, to the extent there is a change in one or more Applicable Laws after the date of execution of this Contract, and such change has the effect of increasing the cost or time of performance of the Work, such change may be the subject of a Change Order under the provisions of Article 9-CHANGES IN THE WORK hereof.

2.3 Standards of Performance

The Work shall be performed by CONTRACTOR in accordance with the professional standards applicable to projects, buildings or work of complexity, quality and scope comparable to the Work and the Project. CONTRACTOR may make such additions or substitutions to personnel and responsibilities as it deems necessary or appropriate in order to carry out its responsibilities hereunder, provided such personnel shall be suitably qualified. Nothing in this Agreement shall be construed to create any contractual liability with CITY toward any Subcontractor.

2.4 Execution, Correlation and Intent

2.4.1 Execution of Agreement.

Execution of this Agreement by CONTRACTOR is a representation that CONTRACTOR has visited the Site, become familiar with the local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

2.4.2 Intent of Contract Documents.

The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by CONTRACTOR. The Contract Documents are complementary and what is required by one shall be as binding as if required by all; performance by CONTRACTOR shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the intended results. Any work, materials or equipment that may reasonably be inferred from the requirements of the Contract will be furnished and performed whether or not specifically called for. When words or phrases that have a well-known technical or construction industry or trade meaning are used to describe Work, materials or equipment, such words or phrases shall be interpreted in accordance with that meaning

2.4.3 Organization of Material.

Organization of the Design Materials into divisions, sections and articles, and arrangement of drawings does not necessarily control CONTRACTOR in dividing the Construction Work among Subcontractors or in establishing the extent of Construction Work performed by any trade.

2.4.4 Resolving Conflicts

In resolving conflicts resulting from errors or discrepancies in any of the Contract Documents, the order of precedence shall be as follows:

- A. Permits from other agencies specifically required for the performance of the Work as may be required by law;
- B. Supplemental Agreements and Change Orders, the one dated later having the precedence over another dated earlier;
- C. Agreement;
- D. General Requirements (Division 1);
- E. Technical Specifications (Division 2 and all other Divisions following);
- F. Contract Drawings;
- G. CITY of Roseville's most current version of Construction Standards and Design Standards and Amendments to the Current Version
- H. Other Referenced Standard Specifications;
- I. Other Referenced Standard Plans.

With reference to the Drawings, the order of precedence is as follows:

- A. Addenda/Change Order drawings govern over any other drawings;
- B. Enumerated dimensions govern over scaled dimensions;
- C. Detail drawings govern over general drawings; and

D. Contract Drawings govern over standard drawings/plans.

The provisions of the Contract Documents shall take precedence over any Laws or Regulations applicable to the performance of the work unless such an interpretation of the provisions of the Contract Documents would result in a violation of such Law or Regulation.

2.4.5 Meaning of Words

Unless otherwise stated in this Agreement, words which have well-known technical or construction industry meanings are used in accordance with such recognized meanings.

2.5 Contractor Services and Facilities

2.5.1 General.

CONTRACTOR shall provide everything required for the orderly progress and proper execution and completion of the Work and the Project in accordance with the requirements of the Contract Documents, whether temporary or permanent and whether or not incorporated or to be incorporated into the Work, including, but not limited to, services, labor, materials, equipment, furnishings, tools, construction equipment and machinery, utilities, transportation and other facilities and services.

2.5.2 Supervision

CONTRACTOR shall supervise and direct the Work in accordance with its best skill and attention. CONTRACTOR shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures. CONTRACTOR shall be responsible to CITY for the acts and omissions of, and whenever this Contract refers to the negligence, fault or omission of CONTRACTOR, such term shall include the negligence, fault or omission of, CONTRACTOR's employees, Subcontractors and their agents and employees, and other persons performing portions of the Work under an agreement with CONTRACTOR. CONTRACTOR shall not be relieved of obligations to perform the Work in accordance with the Contract Documents by tests, inspections or approvals required or performed by persons other than CONTRACTOR.

2.5.3 Coordination

CONTRACTOR shall coordinate construction requirements with Governmental agencies, utilities, and all other parties either involved in infrastructure improvements or otherwise affected by the design and construction requirements.

2.5.4 Design-Assist Development Coordination

CONTRACTOR understands and agrees that all Design Development Documents and time schedules prepared by Architect/Engineer must be coordinated with CONTRACTOR and CITY. CONTRACTOR shall participate and provide recommendations in the development of the drawings and other documents to fix and describe the size and character of the Project in its entirety as to structural, and electrical systems, materials and other essentials in CONTRACTOR's capacity as a general contractor and not as a design professional, focusing on constructability and cost implications of the evolving design.

2.5.5 Construction Documents Coordination. [reserved]

2.5.6 Cooperation

CONTRACTOR shall cooperate with the Architect/Engineer, and CITY's financial, design and construction consultants and all other designated representatives during the design and construction of the Project.

2.5.7 Management

CONTRACTOR shall implement suitable management systems and work plans for the Project relative to Project safety, quality assurance and managing and controlling the Work.

2.5.8 Reports

CONTRACTOR shall prepare and submit to CITY monthly progress reports on the Work accomplished during the previous monthly period, which reports shall be prepared in a manner and in a format reasonably acceptable to CITY. Such reports shall be furnished at the time of submission of each monthly Application for Payment. As part of such report, CONTRACTOR shall provide an updated Schedule, including CPM, if any, illustrating the progress that has been made, by reference to the initial CPM, and specifying whether the Work is on schedule or behind schedule and actions being taken to correct Schedule slippage. The monthly report shall also set forth CONTRACTOR's projected progress for the forthcoming month.

2.6 Labor and Materials; Liens (Stop Payment Notice Claims); Indemnity

Unless otherwise provided in the Contract Documents, CONTRACTOR shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

CONTRACTOR shall enforce strict discipline and good order among CONTRACTOR's employees, subcontractors, and other persons carrying out the Work. CONTRACTOR shall not permit employment of unfit persons or persons not skilled in tasks assigned to them.

CONTRACTOR shall not permit any Subcontractor, materialman, or laborer to place liens on the Project covering any portion of the Work for which CITY has made payment to CONTRACTOR. If any liens (e.g., stop payment notice claims) are imposed, CITY may withhold payment in the amount of 125% of the claim until such time an unconditional release is provided in a form satisfactory to CITY.

CONTRACTOR shall indemnify, defend, and hold harmless CITY regarding any claim or lien that proceeds to, or is the subject of litigation. CITY may withhold payment(s) pending compliance with this provision.

2.7 Local Conditions; Environmental Site Conditions

2.7.1 Local Conditions

CONTRACTOR represents that it has taken steps reasonably necessary to ascertain the nature and location of the Work, and that it has investigated and satisfied itself as to the general and local conditions which are applicable to the Work such as (a) conditions bearing on transportation, disposal, handling and storage of materials; (b) the availability of labor, water, power and roads; (c) normal weather conditions; (d) observable physical conditions at the Site; (e) the surface conditions of the ground; and (f) the character of equipment and facilities needed prior to and during the performance of the Work. To the

extent CONTRACTOR encounters subsurface or concealed conditions which differ materially from that actually known by CONTRACTOR on the date of this Agreement or from those ordinarily found to exist and generally recognized as inherent in the activities of the character provided in the Contract Documents; then CONTRACTOR shall give notice to CITY promptly before conditions are disturbed and in no event later than two (2) Days after the first observance of the conditions if a Change Order is contemplated by CONTRACTOR due to such condition. Such materially different conditions may entitle CONTRACTOR to an equitable adjustment in the GMP and/or Schedule pursuant to the Change Order provisions of this Agreement.

2.7.2 Hazardous Materials

The Parties' agreement as to the handling of Hazardous Materials discovered at the Site (and not brought there by CONTRACTOR or any Subcontractor) is set forth in Exhibit E-HAZARDOUS MATERIALS hereto, and the only duties and responsibilities of CONTRACTOR in connection therewith are as therein specified, notwithstanding any other provision of this Agreement.

2.8 Legal Requirements

CONTRACTOR shall comply with all Applicable Laws, and shall give applicable **notices** pertaining thereto.

2.8.1 Governmental Approvals

CONTRACTOR shall comply with Applicable Laws, and shall give applicable notices pertaining thereto. Except with respect to Governmental Approvals, CONTRACTOR shall prepare and file all documents required to obtain the necessary approvals of governmental authorities having jurisdiction over the Work and/or the Project and shall secure and pay for permits and governmental fees, licenses and inspections necessary for the proper execution of the Work and completion of the Project. Notwithstanding the foregoing, CITY has informed CONTRACTOR that fees in connection with building permits, street use permits, and similar permits relating to construction will be waived and are not to be included in the GMP. If and to the extent charges for such permits are imposed in the future, such charges shall be paid by CITY, or shall be the subject of a Change Order to the Contract in accordance with the Change Order provisions of this Agreement.

2.8.2 Permits, Fees and Notices

Unless otherwise provided in the Contract Documents, and subject to the provisions of Article 2.8-Legal Requirements hereof, CONTRACTOR shall secure all permits, governmental fees, licenses and inspections necessary for the proper execution and completion of the Work. To the extent there is a change in the type or cost of any of such permits, fees, licenses or inspection occurring after execution of this Agreement, there shall be an equitable adjustment in the GMP and Schedule on account of such change in accordance with the Change Order provisions. CONTRACTOR shall comply with and give notices required by Applicable Laws.

2.8.3 Patents, Trademarks, Copyrights

CONTRACTOR shall pay, as a Cost of the Work, all-applicable royalties and license fees on any matters arising in connection with the Work. CONTRACTOR shall defend all suits or claims for infringement of patent, trademark, and copyrights against the Indemnified Parties, and shall save the Indemnified Parties harmless from loss on account thereof for any and all matters arising in connection with the Work or the Project (such costs to be paid as Cost of the Work), except with respect to any particular design process or the product of a particular manufacturer or manufacturers specified and required by CITY, other than

pursuant to the recommendation or suggestion of CONTRACTOR or a subcontractor; provided however, if CONTRACTOR has reason to believe that the design, process or product so specified is an infringement of a patent, CONTRACTOR shall be responsible for any loss resulting unless CONTRACTOR has provided CITY with prompt written notice of CONTRACTOR's belief, and CITY has nevertheless elected to go forward with such design, process or product so specified.

2.9 Warranty

CONTRACTOR warrants to CITY that any and all materials, equipment and furnishings incorporated in the Work will be of good quality and new unless otherwise required or permitted by the Contract Documents, that the Construction Work will be free from defects not inherent in the quality required or permitted, and that the Construction Work will conform with the requirements of the Contract Documents. Construction Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective by CITY at its sole discretion.

CONTRACTOR shall warranty the Construction Work for a period of one-year commencing upon recording of the notice of completion. If within this one-year warranty period any of the Work is found to be defective or not in accordance with the requirements of the Contract Documents, CONTRACTOR shall correct it promptly after receipt of written notice from CITY to do so. CITY shall give such notice promptly after discovery of the condition. CONTRACTOR shall bear the cost of correction.

CONTRACTOR's attention is directed to Article 11.13-Payment, Performance, and Warranty Bonds and Exhibit G-BOND FORMS regarding Warranty Bond requirements.

2.10 Use of Site.

2.10.1 Beneficial Use

CITY shall be permitted beneficial use of the Work.

2.10.2 Access by CITY

CONTRACTOR shall afford CITY and its authorized designees access to the Project Site at all times, subject to reasonable prior notice for access outside of normal business hours.

2.10.3 Rubbish; Debris; Cleanup

During the performance of all on-site Work, CONTRACTOR shall at all times, as a Cost of the Work, keep the Site and adjacent streets, properties and sidewalks free from waste materials, debris and/or rubbish, and shall employ adequate dust control measures. If accumulation of such materials, debris, rubbish or dust constitutes a nuisance or safety hazard or is otherwise objectionable in the reasonable opinion of CITY, CONTRACTOR shall promptly remove them. Upon Substantial Completion of the Work, or any portion or component thereof, CONTRACTOR shall remove from the Site, or applicable portion thereof, all tools, construction equipment, machinery, surplus materials, waste materials and rubbish and shall leave the Site in a "broom clean" condition. If CONTRACTOR fails to clean up as provided in the Contract Documents, CITY may do so and the cost thereof shall be charged to CONTRACTOR as a Cost of the Work.

2.10.4 Noise and Night Work

CONTRACTOR shall comply with CITY's noise ordinance.

2.11 Taxes

CONTRACTOR shall pay, as Cost of the Work, all existing and future applicable federal, state and local sales, consumer, use and similar taxes, whether direct or indirect, relating to, or incurred in connection with, the performance of the Work (excluding taxes based on CONTRACTOR's income). In the event CONTRACTOR is obligated to pay any new or increased taxes or duties adopted after the date hereof, the amount of such new or increased taxes shall increase the GMP pursuant to the Change Order provisions of this Contract. In the event CONTRACTOR receives the benefit of a tax exemption or tax reduction taking effect after the date hereof, the amount of such exemption or reduction shall decrease the GMP pursuant to the Change Order provisions of this Contract

2.12 Ownership of Documents and Materials, and Confidentiality

CITY shall have unlimited rights to copy and use in connection with the Project all Design Materials, including the right to use same on the Project at no additional cost to CITY, regardless of degree of completion, provided that said services performed have been fully paid for as required by the terms of this Agreement. CONTRACTOR and its Subcontractors shall keep all design documents confidential, and shall not disclose such documents except as may be required in performance of the Work or pursuant to legal process.

2.13 Value Engineering

CONTRACTOR shall suggest to CITY value engineering to reduce the cost of the Project, which CITY may accept at its sole discretion.

2.13.1 Acceptance of Value Suggestions

To the extent that CONTRACTOR provides value engineering suggestions or comments with respect to the Project's design, CITY acknowledges that such services are advisory only and not professional design services. CITY shall refer all such suggestions and comments to the Architect/Engineer for review and evaluation prior to CITY's acceptance thereof. CITY shall cause the Architect/Engineer to revise the Project's design documents to reflect all value engineering suggestions and comments accepted by CITY without delay or disruption to the timely and orderly progress of the Work, including revisions needed to address the impact of an agreed value engineering solution on other portions of the Work. The GMP and Contract Time shall be adjusted by Change Order promptly after CONTRACTOR's review and pricing of the change to the Work reflected in the revised design documents.

2.13.2 Subcontractors Bids

CONTRACTOR shall make recommendations to the Architect/Engineer regarding the appropriate quality of materials, equipment, component systems and types of construction for the most reasonable prices for inclusion in the Construction Documents, and CONTRACTOR shall also recommend to the Architect/Engineer and CITY reasonable adjustments in the scope of the Project so that the total cost bid by the bidding Subcontractors will not exceed the estimate.

2.14 Design Development Documents and Construction Documents.

2.14.1 General

The Design-Assist Team understands that all construction documents, working drawings and specifications must be coordinated with, submitted to, and approved by, CITY prior to construction. CONTRACTOR shall allow CITY a minimum of fourteen (14) days for review of Submittals and corrections made thereto. CONTRACTOR shall work with the Design-Assist Team to prepare, for the approval of CITY, working drawings and specifications setting forth in detail the requirements for the

construction of the Project in its entirety CITY's review of the Design Development Documents and the Construction Documents shall not relieve CONTRACTOR from its responsibilities under this Agreement, or be deemed to be an approval or waiver by CITY of any deviation from, or of CONTRACTOR's failure to comply with, any provision or requirement of the Contract Documents, unless such deviation or failure has been identified as such in writing in the document submitted for approval by CONTRACTOR and approved by CITY. CONTRACTOR shall comply with all CITY construction standards as deemed applicable by the CITY. CONTRACTOR shall provide CITY with a complete, accurate, full size, and current set of as built drawings in a hard copy acceptable to City prior to Final Completion.

The Architect/Engineer is the entity professionally responsible for the design of the Project. CITY acknowledges that CONTRACTOR is a general contractor and not an architect or engineer. Except with respect to any subcontractors of CONTRACTOR providing architectural or engineering services for the Project as design-build work, CONTRACTOR's review of or input for any design documents, or CONTRACTOR's recommendation for any design concepts, is made solely in CONTRACTOR's capacity as a licensed contractor and not as a licensed design professional. CONTRACTOR is not responsible for any errors in the design or failure of the design to comply with applicable laws, codes, rules and regulations, or lawful orders of public authorities. However, if CONTRACTOR observes any such nonconformity or errors it shall promptly notify CITY and the Architect/Engineer.

2.14.2 Reliance on Approvals

CONTRACTOR shall be entitled to rely on the approvals of CITY with respect to the Design Materials. If CITY revokes, modifies or otherwise changes in a material way its approval of a given system after such system has been designed and approved, or modifies the original Scope of Work in a material manner requiring modification to one or more systems which have been designed and approved, CONTRACTOR shall be entitled to a Change Order in accordance with the provisions of Article 9-CHANGES IN THE WORK hereof. No Change Order shall be issued to the extent such modification is due to the fault or neglect of CONTRACTOR.

2.14.3 Review of Contract Documents and Field Conditions

CONTRACTOR shall take field measurements and verify field conditions and shall carefully compare such field conditions and other information known to CONTRACTOR with the Contract Documents before commencing activities. CONTRACTOR shall perform the Work in accordance with the Contract Documents and submittals approved in accordance with the procedures set forth in this Agreement.

2.15 Shop Drawings, Product Data, Samples and Other Submittals.

2.15.1 Documents and Samples at the Site

From and after commencement of the Construction Work, CONTRACTOR shall maintain at the site one (1) record copy of the Construction Documents, and any and all amendments thereto, in good order and marked to record changes and selections made during the Construction Phase. In addition, CONTRACTOR shall maintain at the site approved shop drawings, product data, samples and similar required submittals. These shall be provided to CITY upon completion of the Work.

2.15.2 Shop Drawings

Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by CONTRACTOR, a Subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

2.15.3 Product Data

Product Data includes illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by CONTRACTOR to illustrate materials or equipment for some portion of the Work.

2.15.4 Samples

Samples are physical examples, which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

2.15.5 Submittals are not Contract Documents.

Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required the way CONTRACTOR proposes to conform the construction to the Construction Documents.

2.15.6 Submission of items listed in Article 2.15.5

Requirements and procedures for submittal of shop drawings, product and equipment data are covered in technical specification section 01322 and 01330.

2.15.7 Responsibility

CONTRACTOR shall not be relieved of responsibility for the deviations from requirements of the Contract Documents by CITY's approval of Shop Drawings, Product Data, Samples or similar submittals unless CONTRACTOR has specifically informed CITY of such deviation at the time of the submittal and CITY has given written approval to the specific deviation. CONTRACTOR shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples or similar submittals by CITY's approval thereof.

2.16 Tests and Inspections

2.16.1 Initial Tests and Inspections

Tests, inspections and approvals of portions of the Construction Work shall be made as required by the Contract Documents, Applicable Laws or normal construction practices and/or as directed by CITY. Unless otherwise provided, CONTRACTOR shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to CITY, or with the appropriate public authority. The costs of such tests, inspections and approvals shall be a cost paid by CONTRACTOR. CONTRACTOR shall give CITY timely notice of when and where tests and inspections are to be made so that CITY may observe such procedures. All costs of tests, inspections or approvals imposed upon CONTRACTOR by changes in Applicable Laws occurring after execution of this Agreement shall be an increase to the GMP in accordance with the Change Order provisions herein.

2.16.2 Additional Tests and Inspections

If CITY, or any other public authority having jurisdiction, determines that portions of the Construction Work require additional testing, inspection or approval beyond that required by Article subsection 2.16.1 above, CITY will instruct CONTRACTOR to make arrangements for such additional testing, inspection or approval by an entity acceptable to CITY, and CONTRACTOR shall give timely notice to CITY of when and where tests and inspections are to be made so CITY may observe such procedures. If such additional tests and/or inspections reveal failure of the portions of the Work to comply with the

requirements of the Contract Documents, the costs of such tests and required correction shall be paid as a Cost of the Work, subject to the limitations set forth in Article 2.19-CORRECTION OF WORK hereof. If the additional tests and/or inspections show that the portions of the Work comply with the requirements of the Contract Documents, the costs thereof shall be an increase to the GMP in accordance with the Change Order provisions of this Agreement.

2.16.3 Required Certificates

Required certificates of testing, inspection or approval shall, unless otherwise required by the Contract Documents, be secured by CONTRACTOR and promptly delivered to CITY.

2.16.4 Timing of Testing

Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

2.17 Cutting and Patching

2.17.1 Cutting and Patching of the Work

CONTRACTOR shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly.

2.17.2 Damage to Work of CITY or Separate Contractors

CONTRACTOR shall not damage or endanger a portion of the completed Work, fully or partially completed construction of CITY, or work or construction by Separate Contractor(s) by cutting, patching or otherwise altering such construction or work, or by excavation. CONTRACTOR shall not cut or otherwise alter such construction by CITY or a Separate Contractor except with written consent of CITY and of such Separate Contractor, such consent not to be unreasonably withheld.

2.18 Uncovering of Construction Work.

2.18.1 Uncovering

If a portion of the Construction Work is covered contrary to CITY's written request to observe such work prior to it being covered or contrary to requirements of the Contract Documents, it must, if directed in writing by CITY, be uncovered for CITY's observation and be replaced without change in the Schedule or GMP. The costs of such uncovering and replacement shall be Cost of the Work, subject to the limitation set forth in Article 2.19-CORRECTION OF WORK hereof.

2.18.2 Covering of Work Requested to be Observed

If a portion of the Construction Work has been covered, which CITY has not specifically requested to observe prior to being covered, CITY may request to see such Construction Work and it shall be uncovered by CONTRACTOR. If such Construction Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be charged to CITY and shall increase the GMP. An appropriate time extension shall also be given. If such Construction Work is not in accordance with the Contract Documents, CONTRACTOR shall pay such costs as Cost of the Work, unless such condition was caused by CITY or a Separate Contractor in which event CITY shall be responsible for payment of such costs by appropriate Change Order, and an appropriate time extension shall also be given.

2.19 Correction of Work

2.19.1 Work Rejected by CITY

CONTRACTOR shall promptly correct Construction Work rejected by CITY or failing to conform to the requirements of the Contract Documents, whether observed before or after Substantial Completion and whether or not fabricated, installed or completed. CONTRACTOR shall bear the costs of correcting such rejected Construction Work, as a Cost of the Work, including additional testing and inspection and compensation for services and expenses of CITY made necessary thereby.

2.19.2 Removal of Work

CONTRACTOR shall remove from the Site portions of the Construction Work, which are not in accordance with the requirements of the Contract Documents and are neither corrected by CONTRACTOR nor accepted by CITY. The costs incurred in removing such Work shall be a Cost of the Work, subject to the limitation set forth in Article 2.19-CORRECTION OF WORK hereof.

2.19.3 Failure to Correct Nonconforming Work

If CONTRACTOR fails to correct nonconforming Construction Work within a reasonable time, CITY may correct it in accordance with the terms of this Agreement. If CONTRACTOR does not proceed with correction of such nonconforming Construction Work within a reasonable time fixed by written notice from CITY, CITY may remove it and store the salvageable materials or equipment at CONTRACTOR's expense. If CONTRACTOR does not pay costs of such removal and storage within ten (10) Days after written notice, CITY may, upon ten (10) additional Days written notice, sell such materials and equipment at auction or at private sale and shall account for the proceeds thereof, after deducting costs and damages that should have been borne by CONTRACTOR, including compensation for services and expenses made necessary thereby. If such proceeds of sale do not cover costs which CONTRACTOR should have borne, CONTRACTOR shall pay such excess to CITY. If such proceeds are in excess of the costs which CONTRACTOR should have borne, such excess shall be paid by CITY to CONTRACTOR. If such costs arise during the performance of the Work, such costs shall be charged against the Cost of the Work. If such costs arise after Substantial Completion, such costs shall be payable as provided in Article 8.1-GUARANTEED MAXIMUM PRICE.

2.19.4 Damaged or Destroyed Work

CONTRACTOR shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of CITY or Separate Contractors caused by CONTRACTOR's correction or removal of Construction Work which is not in accordance with the requirements of the Contract Documents. If such costs arise during the performance of the Work, such costs shall be charged against the Cost of the Work. If such costs arise after Substantial Completion, such costs shall be payable as provided in Article 8.1-GUARANTEED MAXIMUM PRICE.

2.19.5 No Limitation

Nothing contained in this Article 2.19-CORRECTION OF WORK shall be construed to establish a period of limitation with respect to other obligations which CONTRACTOR might have under the Contract Documents.

2.19.6 Acceptance of Nonconforming Work

If CITY prefers to accept Work, which is not in accordance with the requirements of the Contract Documents, CITY may do so instead of requiring its removal and correction, in which case the GMP will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

2.20 Contractor Registration

No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this Contract, CONTRACTOR and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. CONTRACTOR is hereby notified that this Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

ARTICLE 3 - CONTRACT ADMINISTRATION

3.1 Administration of the Contract

The CITY's Representative and the Construction Manager will provide administration of the Agreement as hereinafter described. If the status of any of the above parties should change, the CITY will provide written notice to the Contractor of such change.

3.2 CITY's Representative

3.2.1 General

The CITY's Representative has the authority to act on behalf of the CITY on change orders, field orders, progress payments, Contract Decisions, acceptability of the Contractor's work, and early possession.

3.2.2 Change Orders

The CITY's Representative has the authority to accept or reject change orders and cost proposals submitted by the Contractor or as recommended by the Construction Manager.

3.2.3 Progress Payments

CITY's Representative has the authority to accept or reject requests for progress payments which have been submitted by the Contractor and recommended by the Construction Manager.

3.2.4 Contract Decisions

Should CONTRACTOR disagree with the Construction Manager's decision with respect to the Agreement, the CONTRACTOR may appeal to the CITY's Representative in accordance with the provisions of the Agreement.

3.2.5 Acceptability of Work

The CITY's Representative has the authority to make the final determination of the acceptability of the Work.

3.3 Construction Manager

3.3.1 General

The Construction Manager is a representative of the CITY employed to act as advisor and consultant to the CITY in construction matters related to the Agreement. The term Construction Manager may include more than one individual to perform contract administration and construction observation. Hereinafter, the term Construction Manager includes any and all representatives working under the direction of the Construction Manager.

All instructions to the Contractor and all communications from the Contractor to the CITY or the CITY's Representative shall be forwarded through the Construction Manager. The Construction Manager will have authority to act on behalf of the CITY only to the extent provided in the Contract Documents. The CITY has delegated its authority to the Construction Manager to make initial decisions regarding questions which may arise as to the quality or acceptability of materials furnished and work performed, and as to the manner of performance and rate of progress of the Work. The Construction Manager shall make initial decisions with respect to the Contractor's fulfillment of the Agreement and the Contractor's entitlement to compensation. The Contractor shall look initially to the Construction Manager in matters relating to the Agreement.

The Construction Manager's authority to act under Article 3-CONTRACT ADMINISTRATION, herein, and any decision made by it in good faith either to exercise or not to exercise such authority, shall not be interpreted or construed as control of or responsibility for any of the Work performed under this Agreement.

3.3.2 On-Site Representative

The Construction Manager will observe the progress, quality, and quantity of the Work to determine, in general, if the Work is proceeding in accordance with the provisions of the Contract Documents. The Construction Manager shall not be responsible for the superintendence of the construction site conditions; construction means, methods, appliances techniques, sequences, or procedures; operation of equipment; Contractor's personnel; or for safety practices or unsafe practices, precautions, and programs in connection with the Work.

In accordance with the provisions of these Contract Documents, the Construction Manager will make decisions relative to all matters of interpretation or execution of the Contract Documents.

3.3.3 Observation and Inspections of Construction

The Construction Manager shall observe the construction and shall have the authority to reject work and materials which do not conform to the Contract Documents, and to require special inspection or testing. Observation and inspection by the Construction Manager or an inspector is not an authorization to revoke, alter, or waive any requirements of the Specifications. Observation and inspection is the authorization to call the attention of the Contractor to any failure of the Work, materials or workmanship to conform to the Contract Documents. The Construction Manager shall have this authority including the ability to reject materials or, in any emergency, suspend the Work. The Contractor may appeal any such issue which it disagrees with to the Construction Manager for decision. If the decision of the Construction Manager is not satisfactory to the Contractor, the Contractor may appeal such decision to the CITY's Representative.

3.3.4 Acceptability of the Work

The Construction Manager has the authority to make a recommendation as to the acceptability of the Work.

3.3.5 Change Orders

The Construction Manager has the authority to initiate change orders; to reject change orders proposed by the Contractor; to negotiate and recommend acceptance of change orders to the CITY; or to order minor changes in the Work that result in no cost to the CITY.

3.3.6 Construction Schedule

The Construction Manager has the authority to review and recommend acceptance of the progress schedule submitted by the Contractor at the start of the Work and subsequent significant revisions for conformance to the specified sequence of Work and logic.

3.3.7 Progress Payments

The Construction Manager has the authority to recommend acceptance or rejection of requests for progress payments which have been submitted by the Contractor.

3.3.8 Final Payment

The Construction Manager, with the assistance of the CITY's Representative and the Engineer, will conduct inspections to determine the date of Final Completion of the Work, and the Construction Manager will receive and forward to the CITY, for the CITY's review, written warranties and related documents required by the Agreement and assembled by the Contractor.

3.3.9 Contract Interpretation by the Construction Manager

Notwithstanding any omission from the Specifications or the Drawings it shall be the duty of the Contractor to call the Construction Manager's attention to apparent errors or omissions upon discovery by the Contractor and request instructions in writing before proceeding with the Work. The Contractor shall not unreasonably take advantage of any errors or omissions found by Contractor. If the Contractor discovers any errors or omissions that it believes affect the time or cost of performing the Work, it shall be entitled to request a Change Order. Contractor shall promptly notify the Construction Manager in writing of any design, materials, or specified method that the Contractor identifies as defective or insufficient, provided, however, that in doing so Contractor will be acting in its capacity as a contractor and not an architect or engineer, and that this section does not affect CITY's responsibility with regard to the Contract Documents. The Construction Manager may, by appropriate written instructions, correct errors and supply omitted information, which instructions shall be as binding upon the Contractor as though contained in the original Specifications or Drawings when incorporated into Change Orders. Such instructions shall be incorporated into the Agreement in accordance with the Change Order provisions of the Agreement.

Any discrepancies discovered by the Contractor between the Contract Documents and Site conditions or any inconsistencies or ambiguities in the Contract Documents shall be promptly reported, in writing, to the Construction Manager. Questions regarding the meaning and intent of the Contract Documents shall be referred in writing by the Contractor to the Construction Manager with a Request for Information (RFI).

Work done by the Contractor after its discovery of such errors, omissions, discrepancies, inconsistencies or ambiguities without such notice and prior to response from the Construction Manager shall be done at the Contractor's risk and shall not be reimbursed as a Cost of the Work, nor be a basis for an increase in the GMP.

3.4 Engineer

3.4.1 General

The Engineer will have the authority to act on behalf of the CITY only to the extent provided in the Contract Documents. The Engineer shall not be responsible or have authority for the superintendence of construction site conditions; construction means, methods, appliances techniques, sequences, or procedures; operation of equipment; Contractor's personnel; or for safety practices or unsafe practices; precautions and programs in connection with the Work; or for any failure of the Contractor to comply with laws, regulations, rules, ordinances, codes, or orders applicable to the Contractor furnishing and performing the Work.

3.4.2 Interpretations

The Engineer has the authority to be the initial interpreter of the technical requirements of the Contract Documents. Either party to the Agreement may make written request to the Construction Manager for interpretations necessary for the proper execution or progress of the Work. The Construction Manager shall refer such written requests to the Engineer, who will render such interpretations. Where the Contractor has requested an interpretation from the Construction Manager, or been notified by the Construction Manager that such interpretation has been requested by the CITY, any work done before receipt of such interpretations, if not in accordance with same, shall be removed and replaced or adjusted as directed by the Construction Manager without additional expense to CITY and shall not be reimbursed as a Cost of the Work, or be a basis for an increase in the GMP.

3.4.3 Acceptability of the Work

The Engineer has the authority to make a recommendation as to the acceptability of the Work. The Engineer has the authority to recommend acceptance regarding the remediation or retention of Defective Work.

3.4.4 Submittal

The Engineer shall receive, through the Construction Manager, shop drawings, product data and samples for review.

The Engineer has the authority to review and take other appropriate action upon the Contractor's submittal such as shop drawings, product data and samples, but only for conformance with the design concept of the Work and the information given in the Contract Documents.

ARTICLE 4 - CITY'S RIGHTS AND RESPONSIBILITIES

4.1 General

CITY, acting through the CITY's Representative or the Construction Manager, shall have the authority to act as the sole judge of the Work and materials with respect to both quantity, quality function, performance and reliability as set forth in the Agreement except as delegated to the Construction Manager in these Contract Documents.

4.2 Information and Services Required of CITY

4.2.1 CITY Designation of Authorized Representative

Both Parties shall designate, from time to time, one or more representatives authorized to act on their behalf with respect to the Project, together with the scope of his/her respective authority.

CONTRACTOR shall not be entitled to rely on directions from anyone outside the scope of that person's authority as set forth in written delegations pursuant to this Agreement. Directions and decisions made by Authorized Representative(s) of CITY shall be subject to any further approval(s) required by any provisions of CITY's Charter or the Roseville Municipal Code.

4.2.2 Communication

During the term of this Contract, CITY shall communicate with Subcontractors, suppliers and others performing any part of the Work only through CONTRACTOR's Authorized Representative.

4.2.3 CITY'S instruction to CONTRACTOR

Wherever CITY is identified in the contract documents in reference to providing the CONTRACTOR with instruction, the "CITY" reference could mean, Construction Manager, Engineer, or Representative acting on behalf of the CITY as delegated in that instance.

4.3 Activities on Site by CITY or Separate Contractors

4.3.1 Observation and Inspection

In addition to the Construction Manager's designated representative, the CITY may provide one or more inspectors to the Construction Manager to observe the Work and with the same authority as provided for in Article 3.3.3, Observation and Inspections of Construction.

Separate and independent from the observations and inspections above, the Work may be inspected by Building Officials, Fire Officials, Roseville Electric and/or Pacific Gas and Electric for code compliance. Such inspectors shall have the authority provided to them by their jurisdiction. Any design deficiencies or additional work required by these code inspections not required by the Contract Documents may be incorporated into the Work in accordance with the Change Order provisions of the Agreement

4.3.2 CITY'S Right to Award Separate Contracts

CITY reserves the right to perform work or operations related to the Project with the CITY'S own forces, and to award separate contracts to Separate Contractors in connection with the Project or other work on the Site. If the Contractor claims that delay, damage, or additional cost is involved because of such action by the CITY, the Contractor shall make such claim as provided elsewhere in the Contract Documents. When separate agreements are awarded for different portions of the Project or other work on the Site, the term "Contractor" in the Contract Documents in each case shall mean the contractor who executes each separate Agreement.

4.3.3 Integration of the Work with Separate Contractors

Following the request of CITY, CONTRACTOR shall prepare a plan in order to integrate the work performed by Separate Contractors with the performance of the Work, and shall submit such plan to CITY for approval. The plan shall be fair and reasonable for CONTRACTOR and the Separate Contractors, and CONTRACTOR shall work with the Separate Contractors to reach agreement on such plan. CONTRACTOR shall arrange the performance of the Work so that the Work and the work of the Separate Contractors are, to the extent applicable, properly integrated, jointed in an acceptable manner, and performed in the proper sequence so that any disruption or damage to the Work or to any work of Separate Contractors is avoided.

4.3.4 Coordination

CONTRACTOR shall provide for the coordination of the activities of CONTRACTOR and its Subcontractors with the activities of the Separate Contractors. CONTRACTOR shall participate with all Separate Contractors and CITY in reviewing and coordinating the schedules of the Separate Contractors with the Schedule. CONTRACTOR shall make any revisions to the Schedule deemed necessary to properly incorporate the work of the Separate Contractors with the Work. To the extent (a) the date of Substantial Completion is extended by such Schedule revision; (b) CONTRACTOR is required to perform its Work materially out of sequence, and in a manner which is not as efficient or cost effective as originally planned; or (c) the Scope of Work is increased, an equitable adjustment in the GMP and the Schedule shall be made in accordance with the Change Order provisions of this Agreement.

4.3.5 Use of Site

CONTRACTOR shall afford CITY and all Separate Contractors reasonable opportunity for storage of materials and equipment and performance of their work. CONTRACTOR shall also connect and coordinate its Work and operations with CITY and all Separate Contractors' operations as required by the Contract Documents. CITY shall direct the Separate Contractors to cooperate with CONTRACTOR and to avoid actions or omissions, which could interfere with or delay the activities of CONTRACTOR.

4.3.6 Deficiency in Work of Contractors

If part of CONTRACTOR's Work depends upon proper execution or results upon construction or operations by CITY or a Separate Contractor, CONTRACTOR shall, prior to proceeding with that portion of the Work, promptly report to the Separate Contractor and CITY apparent discrepancies or defects in such other construction that would render it unsuitable for proper execution and results by CONTRACTOR. CONTRACTOR and the Separate Contractor shall use good faith efforts to resolve any such discrepancies or defects or any disagreements relating thereto. Failure of CONTRACTOR to report such discrepancies or defects shall constitute acceptance by CONTRACTOR of the work of Separate Contractors as fit and proper to receive CONTRACTOR's Work (except as to those defects or discrepancies that are not apparent).

4.4 Claims Involving Separate Contractors

In the event that CONTRACTOR unnecessarily and unreasonably delays the work of Separate Contractors by not cooperating with them as required hereby, or by not affording them reasonable opportunity to perform their work as stated herein, CONTRACTOR shall, in such event, pay, as Cost of the Work, all reasonable direct incremental costs and expenses incurred by such Separate Contractors due to any such delays. If any Separate Contractor shall assert a claim or bring an action against CITY alleging damage due to the fault or neglect of CONTRACTOR, CITY shall immediately notify CONTRACTOR, who shall defend such claim. If it is determined that CONTRACTOR was at fault, CONTRACTOR shall pay all costs of defense, including attorney's fees, as well as any resulting judgment or settlement, as a Cost of the Work.

4.5 Assignment of Separate Contracts

If CITY determines that it wishes to assign to CONTRACTOR one or more contracts between CITY and a Separate Contractor, it shall give CONTRACTOR written notice of such desire, including in such notice a copy of such contract for CONTRACTOR's review and approval. The Separate Contractor shall be fully qualified to perform the work under the to-be-assigned contract, shall possess the financial capability to perform its obligations under such to-be-assigned contract, and shall provide one hundred percent (100%) payment and performance bonds covering such work from sureties meeting the standards

set forth in Article 11-Insurance and Bonds; Indemnification hereof. Such contract shall contain provisions similar to those contained in CONTRACTOR's agreements with its Subcontractors with respect to liability, indemnification, retention, payment, labor, warranty, and other material items. Upon CONTRACTOR's approval of the assignment of such contract, which approval shall not be unreasonably withheld, delayed or conditioned, such Separate Contractor shall cease to be a Separate Contractor and shall thereafter be deemed to be a Subcontractor of CONTRACTOR, and the GMP shall be increased by Change Order in the amount of (a) such assigned contract, and (b) the additional Fee pursuant to the provisions of Article 9.6-Change Orders on Account of Scope Change.

4.6 CITY's Right to Stop the Work

If CONTRACTOR persistently fails to correct Work which is not in accordance with the requirements of the Contract Documents and this Agreement or persistently fails to carry out the Work in accordance with the Contract Documents, CITY, by written order signed by CITY, may deliver a notice to CONTRACTOR setting forth that such a persistent and material failure is occurring and has occurred, and demanding that CONTRACTOR commence a cure of such persistent and material failure within twenty (20) Days and diligently pursue such cure thereafter. In the event that the cure is not commenced and pursued diligently, CITY may, by written notice to CONTRACTOR, order CONTRACTOR to stop the Work, or any portion thereof, until the use for such order has been eliminated; provided, however, that the right of CITY to stop the Work shall not give rise to a duty on the part of CITY to exercise this right for the benefit of CONTRACTOR or any other person or entity and shall not give rise to any liability of CITY to CONTRACTOR resulting from any delay (except to the extent that such order is found to be improper).

If CONTRACTOR fails to correct an unsafe condition as specified in Article 12-SAFETY: PROTECTION OF PERSONS AND PROPERTY, the CITY shall have the right to notify the Contractor through the Construction Manager that an unsafe condition may exist and must be corrected or the Work in question can be stopped immediately. CITY's has a right to stop the work, until the condition is corrected to the satisfaction of the CITY.

4.7 CITY's Right to Carry Out the Work

If CONTRACTOR defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a seven (7) Day period after receipt of written notice from CITY to commence and diligently continue correction of such default or neglect with diligence and promptness, CITY may, after such seven (7) Day period, give CONTRACTOR a second written notice to correct such deficiencies within such second seven (7) Day period. If CONTRACTOR within such second seven (7) Day period after receipt of such second notice fails to commence and diligently continue to correct any deficiencies, CITY, without prejudice to other remedies CITY may have, may correct such deficiencies. In such case an appropriate Change Order shall be issued deducting from payments then or thereafter due to CONTRACTOR the cost of correcting such deficiencies, including Compensation for additional services and expenses made necessary by such default, neglect or failure. If payments then or thereafter due to CONTRACTOR are insufficient to cover such amounts, CONTRACTOR shall pay the difference to CITY.

The CITY also reserves the right to perform and suspend any portion of the Work due to an emergency threatening the safety of the Work, public, CITY, and any property or equipment. No deductive Change Order shall be issued for an emergency not caused by Contractor.

4.8 Non-Responsibility of the CITY

CITY shall not be held responsible for the care or protection of any material or parts of the Work prior to the Final Acceptance, except as expressly provided in the Contract Documents.

ARTICLE 5 - CONTRACTOR RIGHTS AND RESPONSIBILITIES

5.1 Status of Contractor and Subcontractors

5.1.1 Contractor

It is stipulated and agreed that the Contractor shall be an independent contractor in the performance of this Agreement and shall have complete charge of persons engaged in performance of the Work. The Contractor shall perform the Work in accordance with its own means, methods, and appliances subject to compliance with the requirements of the Agreement.

5.1.2 Subcontractors

If any part of the Work to be done under this Agreement is subcontracted, the subcontract shall be in writing and shall provide that all Work to be performed thereunder shall be performed in accordance with the terms of the Contract Documents. The subcontracting of any or all of the Work to be done will in no way relieve the Contractor of any part of its responsibility under the Agreement. Subcontractors will not be recognized as having a direct relationship with the CITY. The persons engaged in the Work, including employees of subcontractors and suppliers, will be considered employees of the Contractor and their work shall be subject to the provisions of the Agreement. References in the Contract Documents to actions required of subcontractors, manufacturers, suppliers, or any person other than the Contractor, the CITY or the Construction Manager shall be interpreted as requiring that the Contractor shall require such subcontractor, manufacturer, supplier or person to perform the specified action.

The Contractor shall only employ subcontractors that are properly licensed in accordance with State law and are registered with the California Department of Industrial Relations (DIR).

Prior to commencement of any work by a subcontractor, the Contractor shall submit to the Construction Manager:

- A. Verification that the subcontractor is properly licensed for the work it will perform.
- B. Upon CITY'S request, copies of subcontract agreements.
- C. Copies of subcontractor's insurance certificates and endorsements.

5.2 Contractor's Representative

The Contractor shall provide in writing, a request to the CITY to delegate authority to an individual to serve in the capacity of authorized representative and shall wait to receive written confirmation from the CITY, before the authorized representative can start work. The authorized representative shall be qualified for the duties required and have complete authority to represent and to act for the Contractor. Said authorized representative has the authority to act in matters relating to the Agreement, and shall be personally present at the Site at all times while work is actually in progress on the Agreement. During periods when the Work is suspended, arrangements acceptable to the Construction Manager shall be made for any emergency work that may be required. The Contractor's authorized representative shall be fluent and proficient in the English language in order to understand, receive, and carry out oral and written communications or instructions relating to all job functions and responsibilities. All

communications to and from the Contractor's authorized representative shall be binding as if given to or by the Contractor.

Contractor shall provide its authorized representative's contact information which shall include the representative's name, office street address, office telephone number, mobile phone number, home phone number, email address and the office mailing address if different from the street address.

The Contractor's authorized representative shall give its personal attention to and shall supervise the Work to the end that it shall at all reasonable times be prosecuted faithfully; and when the authorized representative is not personally present on the Work, the representative shall at all reasonable times be represented by a competent designated alternate, superintendent or foreman (approved in writing by the CITY, to act in this capacity) who shall receive and obey all instructions or orders given under this Agreement, and who shall have full authority to supply materials, tools, and labor without delay, and who shall be the legally appointed representative of the Contractor. The Contractor shall be liable for the faithful observation of any instructions delivered to the Contractor or to its authorized representative.

5.3 Supervision and Superintendence

CONTRACTOR shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. Contractor shall not be responsible for the negligence of Owner or Engineer in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the Contract Documents.

At all times during the progress of the Work, Contractor shall assign a competent resident Superintendent who shall not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

5.4 Documents and Samples at the Site.

CONTRACTOR shall maintain at the site for CITY one record copy of the drawings, specifications, addenda, Change Order and other Modifications, in good order and marked currently to record changes and selections made during construction, and in addition approved Shop Drawings, Product Data, Samples and similar required submittals. CONTRACTOR shall also prepare one reproducible set of as-built drawings. These shall be provided to CITY upon completion of the Work.

5.5 Use and Protection of CITY'S Site and Adjacent Property

5.5.1 Designated Areas

With the approval of the Construction Manager, the Contractor may use designated portions of the CITY'S Site for storage of construction equipment, materials and field offices provided the Contractor does not interfere with CITY'S operations. The Contractor will not be allowed to unreasonably encumber the Site or adjacent areas with its materials and/or equipment. The CITY will not accept any responsibility for damage to or loss of the Contractor's equipment or materials stored on any Project related site caused by vandalism, nature, or otherwise, suffered by the Contractor. Protection of all construction equipment, stores, and supplies shall be the sole responsibility of the Contractor. Where additional work space is desired by the Contractor or where the CITY cannot provide the space to the Contractor, it shall be the Contractor's sole responsibility and expense to obtain such a space for its use.

5.5.2 Contractor's Site Access

All workers or representatives of the Contractor, subcontractors or suppliers are admitted to the Site only for the proper execution of the Work and have no tenancy without the express written permission of the CITY. Furthermore, no persons may occupy property owned by the CITY outside the limit of the Work, as indicated on the Drawings, without the express written permission of the CITY.

5.5.3 Provisions for Handling Emergencies

It is possible that emergencies may arise during the progress of the Work, which may require special treatment or make advisable extra shifts of labor forces to continue the Work for twenty-four (24) hours per day. These emergencies may be caused by damage or possible damage to nearby existing structures or property by reason of the work under construction, or by storm, accidents, or leakage. The Contractor shall be prepared in case of such emergencies to make all necessary repairs and shall promptly execute such work when required; such emergency work will be reimbursed as a Cost of the Work and the GMP increased accordingly.

Upon start of the Work, Contractor shall provide means for immediate emergency notification of Contractor's designated representative and designated emergency alternates.

5.5.1 Debris, Trash, and Construction Wastes

The Contractor shall keep the Site reasonably free from debris, trash and construction wastes to permit Contractor to perform construction services efficiently, safely and without interfering with the use of adjacent land areas, and as further stipulated in the Contract Documents. When the Work is Substantially Complete, or a portion of the Work has been completed, Contractor shall remove all debris, trash, construction wastes, materials, equipment, machinery and tools arising from the Work or applicable portions thereof to permit CITY to occupy the Project or a portion of the Project for its intended use. Contractor shall provide a finished cleaning of all areas acceptable to the CITY before releasing any area to the CITY for occupancy.

5.6 Compliance with Laws

The CITY is a municipal corporation in the State of California and is subject to the applicable provisions of law relating to public contracts as a Charter CITY. It is agreed that all provisions of law applicable to public contracts are a part of these Contract Documents to the same extent as though set forth herein and will be complied with by Contractor.

The Contractor shall at all times observe and comply with all existing laws, ordinances, regulations, orders and decrees; and shall protect, indemnify, and defend the CITY, the Construction Manager, the Engineer, the Funding Agencies and all of their officers, officials, employees, agents, volunteers, and servants against any claim or liability arising from or based upon the violation of any such law, ordinance, regulation, order, or decree, whether by the Contractor itself, employees, or its subcontractors.

The Contractor, shall at its own cost and expense, observe and keep itself and its subcontractors fully informed of all existing and future legislated State and Federal Laws and CITY and County ordinances and regulations which in any manner affect those engaged or employed in the Work, or the materials and equipment used in the Work, or which in any way affect the conduct of the Work, and all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same.

If any discrepancy or inconsistency is discovered in the Drawings, Specifications, or in any other part of this Agreement, in relation to any law, ordinance, regulation, order or decree, the Contractor shall immediately report the same to the Construction Manager in writing.

Attention is directed to the following specific regulations and requirements that are hereby included in the Contract Documents. This list of regulations is not warranted to be complete and the burden of ascertaining legal requirements that must be satisfied shall rest solely with the Contractor.

5.6.1 Prevailing Wages

For purposes of this Agreement, CONTRACTOR and its Subcontractors shall comply with all applicable prevailing wage laws, e.g., but not limited to, California Labor Code Sections 1770 et seq. In accordance with said Section 1775, CONTRACTOR shall forfeit as a penalty to the CITY Two Hundred Dollars (\$200) for each calendar Day or portion thereof for each worker paid less than the prevailing rates for such work or craft in which such worker is employed for any work done on-Site under the Agreement by CONTRACTOR or by any Subcontractor in violation of the provisions of the Labor Code and in particular, Labor Code Sections 1770 to 1780, inclusive. In addition to said penalty and pursuant to said Section 1775, the difference between such stipulated prevailing wage rates and the amount paid to each worker for each calendar Day or portion thereof for which each worker was paid less than the stipulated prevailing wage shall be paid to each worker by CONTRACTOR or the applicable Subcontractor.

Pursuant to the provisions of California Labor Code Sections 1773, the Department has identified the source, stated below, of the General Prevailing Rate of Wages applicable to the work to be done, for straight time, overtime, and holiday work. The holiday wage rate listed shall be applicable to all holidays recognized in the collective bargaining agreement of the particular craft, classification or type of worker concerned. These wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: <http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm>, which is a part of this Agreement.

Pursuant to Labor Code Section 1773.2, General Prevailing Wage Rates set forth above, which forms a part of this Agreement, shall be posted by CONTRACTOR at a prominent place at the Site. Prevailing wage rates to be posted at the Site will be furnished by the Department. The possibility of wage increases is one of the elements to be considered by CONTRACTOR in determining its Proposal, and will not under any circumstances be considered as the basis of a claim against CITY or the Agreement.

5.6.2 DIR Registration

California Labor Code section 1725.5 requires the Contractor and all lower-tier subcontractors performing public works services to be currently registered with the California DIR, as specified in California Labor Code section 1725.5. California Labor Code section 1771.1 provides that a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal (subject to the requirements of Section 4104 of the California Public Contract Code), or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to California Labor Code section 1725.5. The Contractor shall list the Contractor's current DIR registration number, and the current DIR registration number of all subcontractors, as part of its Bid Proposal.

Further information can be found on DIR's website at <http://www.dir.ca.gov/Public-Works/Contractors.html>. The above summary is provided solely for informational purposes, and does not in any way affect the Contractor's and subcontractors' obligation to comply in all respects with all other applicable laws and regulations. The Contractor shall disseminate these provisions to every lower-tier subcontractor.

5.6.3 Apprentices on Public Work Projects

The Contractor and any subcontractor or subconsultant shall comply with California Labor Code section 1777.5 et seq., and implementing regulations set forth in Title 8 of the California Code of Regulations, governing the employment of apprentices. Contractor and any subcontractor or subconsultant performing Public Work will be subject to penalties for apprenticeship violations in accordance with Labor Code section 1777.7. Please refer to the link below for guidance in meeting your obligation to satisfy the apprentice requirements for this Project:

<https://www.dir.ca.gov/das/DASApprenticesOnPublicWorksSummaryOfRequirements.htm>.

5.6.1 Receipt of Workers' Wages, Fee for Registering or Placing Persons in Public Works

The Contractor and any subcontractor or subconsultant shall comply with California Labor Code sections 1778 and 1779 of the California Labor Code, which read as follows:

Section 1778. "Every person, who individually or as a representative of an awarding or public body or officer, or as a contractor or subcontractor doing public work, or agent or officer thereof, who takes, receives or conspires with another to take or receive, for his own use or the use of any other person any portion of the wages of any workman or working subcontractor, in connection with services rendered upon any public work is guilty of a felony."

Section 1779. "Any person or agent or officer thereof who charges, collects, or attempts to charge or collect, directly or indirectly, a fee or valuable consideration for registering any person for public work, or for giving information as to where such employment may be procured, or for placing, assisting in placing, or attempting to place, any person in public work, whether the person is to work directly for the State, or any political subdivision or for a contractor or subcontractor doing public work is guilty of a misdemeanor."

5.6.2 Travel and Subsistence Payments

Each worker needed to execute the Work must be paid travel and subsistence payments as defined in the applicable collective bargaining agreements filed in accordance with Section 1773.1 of the California Labor Code.

5.6.3 Workday

In accordance with the provisions of Division 2, Part 7, Chapter 1, Article 3 of the Labor Code, State of California, and in particular Sections 1810 to 1815 inclusive, thereof, eight (8) hours labor shall constitute a day's work and no laborer, worker, or mechanic in the employ of said Contractor, or any subcontractor doing or contracting to do any part of the Work contemplated by this Agreement, shall be required or permitted to work more than eight (8) hours in any one calendar day, and forty (40) hours in any one calendar week unless compensated at not less than time and a half as set forth in California Labor Code Section 1815. However, if the prevailing wage determination requires a higher rate of pay for overtime than is required under said Section 1815, then the overtime rate must be paid, as specified in California Code of Regulation Title 8, Group 3, Section 16200(a)(3)(F). The Contractor and each subcontractor shall also keep an accurate record showing the names and actual hours worked of all workers employed by them in connection with the work contemplated by this Agreement, which record shall be open at all reasonable hours for the inspection of the CITY or its officers or agents and by the Division of Labor Standards Enforcement of the Department of Industrial Relations, their deputies or agents; and it is hereby further agreed that said Contractor shall forfeit as a penalty to the CITY, the sum of the greater of (i) Twenty-Five and No/100 Dollars (\$25.00) or (ii) the maximum penalty allowable by statute for each laborer, worker or mechanic employed in the execution of this Agreement by the Contractor or by any

subcontractor for each calendar day during which such laborer, worker or mechanic is required or permitted to labor more than eight (8) hours in any one calendar day and forty (40) hours in one calendar week in violation of these provisions.

5.6.4 Labor Discrimination

The Contractor and any subcontractor or subconsultant shall comply with California Labor Code Section 1735, which reads as follows:

Section 1735. “No discrimination shall be made in the employment of persons upon public works because of the race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, or sex of such persons, except as provided in Section 12940 of the Government Code, and every contractor for public works violating this Section is subject to all the penalties imposed for violation of this chapter.”

Contractor agrees that it shall not discriminate against any person on account of their sex, race, color, religious creed, ancestry, national origin, disability, medical condition, marital status, age, gender, military or veteran status, genetic information, or sexual orientation in violation of the Fair Employment and Housing Act or the Unruh Civil Rights Act. Upon a final determination by a court of competent jurisdiction that the Grantee has violated either of these Acts, the CITY may, at its option, (1) withhold payments to Contractor under this Agreement until Contractor complies; or (2) suspend or terminate this Agreement. Contractor shall include the provisions of this paragraph in every subcontract, including procurement of materials and lease of equipment, unless specifically exempted by the CITY.

5.6.5 Asbestos Related Work

All work involving asbestos containing material must be performed in accordance with California Labor Code, Sections 6501.5 through 6510, inclusive, and California Administrative Code, Title 8, Section 5208 and all other pertinent laws, rules, regulations, codes, ordinances, decrees and orders.

5.6.6 Compliance with Environmental Laws

During construction, the Contractor shall comply with all pertinent requirements of Federal, State, and local environmental laws and regulations, including, but not limited to, the Federal Clean Air Act, State and local air pollution and noise ordinances, construction site erosion control regulations.

5.6.7 Public Records Act

5.6.7.1 Ownership and Disclosure

Except as otherwise provided herein, all records, documents, drawings, plans, specifications, and all other information relating to the conduct of CITY’S business, including information submitted by the Contractor (“Records”), shall become the exclusive property of CITY and shall be deemed public records. Said Records are subject to the provisions of the California Public Records Act (Government Code § 6250 et seq.). The CITY’S use and disclosure of its records are governed by this Act. The CITY will use its best efforts to inform the Contractor of any request for any financial records or documents marked “Trade Secret,” “Confidential” or “Proprietary” provided by the Contractor to CITY. The CITY will not advise as to the nature or content of documents entitled to protection from disclosure under the California Public Records Act.

5.6.7.2 Litigation Related to Disclosure

In the event of litigation concerning the disclosure of any Records, CITY’S sole involvement will be as a stakeholder, retaining the Records until otherwise ordered by a court. The submitting party, at its sole

expense and risk, shall be fully responsible for any and all fees for prosecuting or defending any action concerning the Records and shall indemnify and hold CITY harmless from all costs and expenses including attorney's fees in connection with any such action.

5.7 Certified Electricians

Workers performing work for an electrical contractor installing, constructing, or maintaining any electrical system covered by the National Electrical Code shall be certified as a General Electrician per California Labor Code Section 3099.

5.8 Contractor's Safety Responsibility

The Contractor shall be solely and completely responsible for conditions of the jobsite, including safety of all persons and property during performance of the Work. This requirement shall apply continuously and not be limited to normal working hours. Safety provisions shall conform to U.S. Department of Labor (OSHA), the California Occupational Safety and Health Act (Cal OSHA), and all other applicable Federal, State, County, and local laws, ordinances, codes, including but not limited to the requirements set forth in Article 12 – SAFETY: PROTECTION OF PERSONS AND PROPERTY, and any regulations that may be detailed in other parts of these Contract Documents. In the event of conflicting requirements, the most stringent requirement as it pertains to the Contractor's safety responsibility, shall be followed by the Contractor. Refer to Article 12 - SAFETY: PROTECTION OF PERSONS AND PROPERTY

5.9 Nonstandard Working Hours

The Contractor may be required to prosecute the Work at night or outside of the normal working hours defined in Section 01130-1.3.c Hours of Work and Overtime. Such work may be required due to project or operational constraints as defined in Section 01130 or if emergencies arise as provided for in Article 5.5.3-Provisions for Handling Emergencies. When required, ordered, or permitted to work at night, the Contractor shall provide sufficient and satisfactory lighting and other facilities therefore. Except as provided in 5.5.3-Provisions for Handling Emergencies, for work outside of the normal working hours, the Contractor shall receive no extra payment, but compensation shall be considered as having been included in the GMP stipulated for the Work, except for authorized work performed outside of the Agreement.

5.10 Cooperation with Other Contractors

This paragraph shall serve as notice to the Contractor that the CITY may allow other contracts for other work at or near the Site of this Work. The Contractor shall afford other Contractors reasonable opportunity for the delivery and storage of their materials and the execution of their work, and shall properly connect and coordinate its work with theirs.

Should construction be under way by other forces or by other Contractors within or adjacent to the limits of the work or in the vicinity of the work to be done under this Agreement, the Contractor shall so conduct its operations as to interfere to the least possible extent with the work of such other forces or Contractors.

Any difference or conflicts which may arise between the Contractor and any other forces or Contractors, creating delays or hindrance to each other, shall be adjusted as determined by the Construction Manager.

ARTICLE 6 - SUBCONTRACTORS

6.1 Incorporation of Contract Documents

CONTRACTOR may enter into Subcontracts with various Subcontractors for portions of the Work. The Subcontracts shall require each Subcontractor, to the extent of the Work to be performed by such Subcontractor, to assume towards CONTRACTOR all the obligations and responsibilities which CONTRACTOR assumes towards CITY. All Subcontracts shall incorporate the terms of this Agreement and the Contract Documents to the extent applicable to the Work to be performed by the Subcontractor.

6.2 Approval of Subcontractors

Those portions of the Construction Work that the CONTRACTOR does not intend to perform with CONTRACTOR's own personnel shall be performed under Subcontracts. A proposed list of Subcontractors shall be submitted to CITY for approval. Proposed Subcontractors will be deemed accepted unless CITY objects in writing within five (5) days after submission by CONTRACTOR.

ARTICLE 7 - TIME AND PROGRESS OF THE WORK

7.1 Commencement of Work

Within forty-five (45) calendar days after executed of the Agreement, written Notice to Proceed will be issued by the City to Contractor. Notwithstanding other provisions of the Agreement, the Contractor shall not be obligated to perform the Work, and the City shall not be obligated to accept or pay for such Work performed by the Contractor, prior to City's issuance of the Notice to Proceed. The Contractor shall provide the required Agreement bonds and evidences of insurance prior to the City's execution of this Agreement and prior to commencement of any Work.

The Contractor shall commence execution of the Work within ten (10) days after the date established in the Notice to Proceed for the commencement of Contract Time.

The Contractor shall give the Construction Manager written notice not less than five (5) working days in advance of the actual date on which the Work is to begin on the Site (excluding Preconstruction Services performed under the Agreement) will be started. The Contractor shall be entirely responsible for any delay in the Work which may be caused by its failure to give such notice.

7.2 Contract Time

All time limits for Substantial Completion, and Final Completion as stated in the Contract Documents are of the essence of the Agreement. The counting of Working or Calendar Days shall begin ten (10) Calendar Days from the date of the Notice to Proceed. The Contractor shall prosecute the Work so that the various portions of the Work shall be complete and ready for use within the times specified in Exhibit H-COMPLETION TIMES AND LIQUIDATED DAMAGES. It is expressly understood and agreed by and between the Contractor and the City that the Contract Time(s) for Contract Milestones, Substantial Completion of the Work and for Final Completion are reasonable times taking into consideration the average climatic and economic conditions and other factors prevailing in the locality and the nature of the Work known as of the date this Agreement is entered into.

7.3 Delays

7.3.1 Notice of Delays

When the Contractor foresees a delay in the prosecution of the Work and, in any event, promptly upon the occurrence of a delay to its Work, the Contractor shall notify the Construction Manager in writing of the occurrence of delay, providing the estimated extent of the delay and its cause. The Contractor shall take immediate steps to prevent or mitigate, if possible, the occurrence or continuance of the delay.

The Contractor agrees that no claim shall be made for any occurrence of delay that is not the subject of a written notice and that is not submitted to the attention of the Construction Manager within ten (10) calendar days of its occurrence. The City may accept a delay with more than ten (10) calendar days of notice if the City finds that the Contractor was acting in good faith and the City was not prejudiced by the Contractor's failure to timely provide the required notice.

7.3.2 Non-Excusable Delays

Non-excusable delays in the prosecution of the Work are delays which were caused by the Contractor, or by its subcontractors and suppliers, at any tier level, or delays which could have been avoided by the exercise of care, prudence, and diligence on the part of the Contractor or its subcontractors or suppliers, at any tier level. The Contractor shall receive no compensation or time extension for such delay. The determination of Non-Excusable Delays shall be made solely by the Construction Manager. In the event that the Contractor is not in agreement with the Construction Manager's decision, the Contractor may appeal the decision by submitting to the City (for consideration), evidence that supports the Contractor's claim for an Excusable Delay consideration.

7.3.3 Excusable Delays

Excusable Delays in the prosecution or completion of the Work are delays which are not caused by or within the control of Contractor and which could not have been avoided by the exercise of care, prudence, foresight, and diligence on the part of the Contractor or its subcontractors or suppliers, at any tier level. In addition, before a delay will be deemed an "Excusable Delay," the delay must prevent the Contractor from proceeding with at least seventy-five (75%) percent of the normal labor and equipment force for at least five (5) hours per day toward completion of the current critical activity item(s) on the latest approved progress schedule submitted by Contractor in accordance with the Contract Documents. The Contractor shall receive no compensation for such delay unless such delay also qualifies as a Compensable Delay, as described below. The following are examples of Excusable Delays:

- A. Site Availability; Failure or inability of CITY to make available any or all of the Site in accordance with the requirements of the Schedule.
- B. Regulatory and Governmental Authority; Failure or inability of CITY or CONTRACTOR to obtain necessary zoning changes, variances, code changes, permits or approvals from any governmental authority, or failure to obtain any street or alley vacations required for the performance of the Work, except to the extent due to the fault or neglect of CONTRACTOR.
- C. Separate Contractor's Acts or Omissions; Delays resulting solely from the acts or omissions of Separate Contractors; provided however, only to the extent Separate Contractors perform their work improperly and not in accordance with any applicable critical path schedule.
- D. Force Majeure; Delays resulting from Force Majeure.
- E. Differing Site Conditions; Differing, unusual or concealed site conditions that could not reasonably have been anticipated by CONTRACTOR in preparing the Schedule.
- F. Hazardous Materials; Delays resulting from the existence or discovery of Hazardous

Materials on the Site not brought to the site by CONTRACTOR or any Subcontractor.

- G. Applicable Laws; Delays resulting from changes in Applicable Laws occurring after the date of execution of this Agreement.
- H. CITY Acts or Omissions; Delays occurring solely due to the acts or omissions of CITY and those within the control of CITY, including, but not limited to, Separate Contractors.
- I. Abnormal Delays; Delays caused by fire, unusual storms, floods, tidal waves, earthquakes, strikes, labor disputes, freight embargoes, and shortages of materials shall be considered as Excusable Delays insofar as they prevent the Contractor from proceeding with at least seventy-five (75%) percent of the normal labor and equipment force for at least five (5) hours per day toward completion of the current critical activity item(s) on the latest favorably reviewed progress schedule.
- J. Weather Delays; Delays caused by inclement weather conditions or the conditions resulting from inclement weather shall be considered as “Excusable Delays” if they prevent the Contractor from proceeding with seventy-five (75%) percent of the normal labor and equipment force engaged in the current critical activity item for a period of at least five (5) hours per day toward completion of such operation or operations, and the crew is dismissed as a result thereof.
- K. Material Shortages; Upon the Contractor's submission of satisfactory proof to the Construction Manager, shortages of material may be considered an “Excusable Delay” upon the satisfaction of the conditions set forth herein. The Contractor must demonstrate that the Contractor has made every effort to obtain such materials from all known sources within reasonable reach of the proposed Work. Only the physical shortage of material, caused by unusual and unforeseeable circumstances, will be considered as eligible for an “Excusable Delay,” and no consideration will be given to any claim that the material could not be obtained at a reasonable, practical, or economical cost or price, unless it is shown to the satisfaction of the Construction Manager that such material could have been obtained only at exorbitant prices entirely out of line with current rates, taking into account the quantities involved and usual practices in obtaining such quantities. A time extension for shortage of material will not be considered for material ordered or delivered late or whose availability is affected by virtue of the Contractor’s or its subcontractor’s or supplier’s mishandling of the procurement for such material. The above provisions apply equally to equipment to be installed in the Work. Nothing herein is intended to affect the Contractor also needing to demonstrate that the delay must prevent the Contractor from proceeding with at least seventy-five (75%) percent of the normal labor and equipment force for at least five (5) hours per day toward completion of the current critical activity item(s) on the latest favorably reviewed progress schedule.

7.3.4 Compensable Delays

Compensable Delays in the prosecution or completion of the Work are delays which meet each of the following three elements: (1) delays which result from causes beyond the control of the Contractor and which could not have been avoided by the reasonable exercise of care, prudence, and diligence on the part of the Contractor or its subcontractors or suppliers, at any tier level; (2) delays that prevent the Contractor from proceeding with at least seventy-five (75%) percent of the normal labor and equipment force for at least five (5) hours per day toward completion of the current critical activity item(s) on the latest approved progress schedule; and (3) delays that are caused by one of the following three causes:

- A. CITY Acts or Omissions; Delays due to the actions and/or inactions of the City, Construction Manager, Engineer or any of their agents or employees.

- B. Differing Site Conditions; Delays due to differing site conditions as defined in Article 7.3.3.E-DIFFERING SITE CONDITIONS.
- C. Separate Contractor's Acts or Omissions; Delays due to other contractors employed by the City who interfere with the Contractor's prosecution of the Work as defined above.

7.3.5 Concurrent Delays

Concurrent delays are those delay periods when the prosecution of the Work is delayed during the same period of time due to causes from a combination of the delays defined in Article 7.3.2-NON-EXCUSABLE DELAYS, Article 7.3.3-EXCUSABLE DELAYS, or Article 7.3.4-COMPENSABLE DELAYS. During such concurrent delay periods, time extensions will be granted in accordance with Article 7.4-TIME EXTENSIONS; however, the Contractor will be granted a non-compensable time extension, and the City shall not assess its actual costs as defined in Article 7.4.1-NON-EXCUSABLE DELAYS, nor will the City assess Liquidated Damages.

7.4 Time Extensions

7.4.1 Non-Excusable Delays

The Contractor shall receive no compensation or time extension for Non-Excusable Delays.

7.4.2 Excusable or Compensable Delays

If the Contractor is delayed in the performance of its Work as defined in Article 7.3.3-EXCUSABLE DELAYS, or Article 7.3.4-COMPENSABLE DELAYS, then the Contract Time(s) will be extended by the City for such time that, the Contractor shows, and the City agrees (which agreement will not be unreasonably withheld), the Project's critical path completion dates will be delayed, provided that the Contractor strictly fulfills the following:

- A. The Contractor shall have provided written notification, in accordance with Article 7.3.1-NOTICE OF DELAYS;
- B. The Contractor shall have submitted in writing a request for an extension of time to the Construction Manager stating at a minimum the cause of the delay and the estimated number of days being requested. The Contractor's request for a time extension shall be submitted within fifteen (15) days of the Contractor furnishing its written notice pursuant to Article 7.3.1-NOTICE OF DELAYS. In the case of an Excusable Delay or Compensable Delay that allegedly is impacting the Contractor's operations for a period longer than fifteen (15) days, the Contractor shall update its request for a time extension, including updating its time impact analysis, every thirty (30) days until the delay is no longer allegedly impacting the Contractor's operations.
- C. If the Contractor maintains that the delay at issue is a Compensable Delay, the Contractor shall submit an estimate of the additional compensation for Field Overhead and Indirect Home Office Overhead (per Article 7.4.4-FIELD OVERHEAD AND INDIRECT HOME OFFICE OVERHEAD FOR COMPENSABLE DELAYS that it is seeking in regard to the alleged delay. This estimate shall be included with the Contractor's request for time extension that is described in paragraph B, above. In the case of a Compensable Delay that allegedly is impacting the Contractor's operations for a period longer than fifteen (15) days, the Contractor shall update its estimate of additional compensation every thirty (30) days until the delay is no longer allegedly impacting the Contractor's operations.
- D. If requested by the Construction Manager, the Contractor shall provide sufficient

information to the Construction Manager to assess the cause or effect of the alleged delay (as well as additional compensation in the case of Compensable Delay), or to determine if other concurrent delays affected the Work. Such additional information shall be furnished within fifteen (15) days of the Construction Manager's request for additional information.

- E. Time extensions due to Excusable or Compensable Delays will be granted only if such delays involve controlling critical path operations which would prevent completion of the whole Work within the specified Contract Time(s), as described in the above conditions for determination of "Excusable Delay" or "Compensable Delay."

Construction Manager will, in writing, approve or reject the Contractor's request for a time extension within fifteen (15) days of the latter of (i) the Construction Manager's receipt of the Contractor's complete request for a time extension; or (ii) the Construction Manager's receipt of the additional information referenced in paragraph C, above. If Construction Manager does not provide a written response within such fifteen (15) day time period, the Contractor's request shall be deemed denied by the City.

If the Construction Manager determines that the Contractor is entitled to a time extension, during such approved extension of time, neither extra compensation for engineering, inspection and administration nor damages for delay will be charged to the Contractor.

7.4.3 Weather Delays

For Weather Delays, the Contractor will be granted a non-compensable time extension for weather caused delays, pursuant to Article 7.3.3.J-WEATHER DELAYS, over and above an allowance as provided for in Exhibit H-Completion Times and Liquidated Damages. No time extensions for weather delays will be granted until the total number of weather days exceeds this allowance.

Should the Contractor fail to complete the Work within the time specified in the Agreement, as extended in accordance with this clause if appropriate, the Contractor shall pay to the City liquidated damages in accordance with Article 7.5-Liquidated Damages.

7.4.4 Field Overhead and Indirect Home Office Overhead for Compensable Delays

The Contractor shall be compensated for field overhead and indirect home office overhead expenses due to Compensable Delays for periods of time when the Work is delayed as defined in Article 7.3.4-COMPENSABLE DELAYS. However, no payment shall be made for compensable delays which occur during a concurrent delay as defined in Article 7.3.5-CONCURRENT DELAYS. As a condition precedent to payment for field overhead and indirect home office overhead, the Contractor must fulfill all conditions as provided in Article 7.4.2-EXCUSABLE OR COMPENSABLE DELAYS. Compensation will be calculated in accordance with 7.4.4.1 and 7.4.4.2 below. No additional markup for overhead or profit shall be provided for such field overhead and indirect home office overhead expenses.

Payment to the Contractor for indirect overhead expenses will be made only if the extended Contract Time period granted for the compensable delay(s) is required to complete the Work following the depletion of the original Contract Time period and any time extensions granted other than compensable time extensions. Payment for field overhead and indirect home office overhead shall be calculated as follows:

7.4.4.1 Field Overhead

For those allowable delay periods as described in Article 7.4.4-FIELD OVERHEAD AND INDIRECT HOME OFFICE OVERHEAD FOR COMPENSABLE DELAYS, the Contractor shall be reimbursed for its field overhead based on:

- A. Actual invoice costs for on-site field offices and temporary utilities as described in Section 015000, TEMPORARY FACILITIES AND UTILITIES.
- B. Actual labor costs as shown in Exhibit C, GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE, for field office staff.
- C. Fair rental values acceptable to the Construction Manager as described in Article 9.6-Cost Determination, for construction equipment idled due to the delay.
- D. Actual Errors and Omissions insurance costs attributable to delay periods.

7.4.4.2 Indirect Home Office Overhead

For those delay periods as described in the introduction of Article 7.4.4-FIELD OVERHEAD AND INDIRECT HOME OFFICE OVERHEAD FOR COMPENSABLE DELAYS, the Contractor shall be reimbursed for its indirect home office overhead based on the following formula:

$$[\text{Guaranteed Maximum Price (\$) divided by the Contract Time Period (Calendar Days)}] \times 0.03 = \text{Daily Indirect Home Office Overhead (\$/Calendar Day)}$$

As it is impractical to determine the actual home office overhead, such reimbursement shall encompass full payment for any and all indirect home office overhead expenses for such periods of time for the Contractor and all subcontractors. Distribution of the markup amount among the Contractor and all subcontractors and suppliers is the responsibility of the Contractor.

7.5 Liquidated Damages

City and the Contractor recognize that time is of the essence of this Agreement and that the City will suffer financial loss if the Work is not completed within the times specified in Exhibit H-COMPLETION TIMES AND LIQUIDATED DAMAGES, plus any extensions thereof allowed in accordance with Article 7.4-TIME EXTENSIONS. It is hereby understood and agreed that it is and will be difficult and/or impossible to ascertain and determine the actual damage which the City will sustain in the event of and by reason of the Contractor's failure to fully perform the Work or to fully perform all of its Agreement obligations that have accrued by the times for completion as specified in Exhibit H-COMPLETION TIMES AND LIQUIDATED DAMAGES.

It is, therefore, agreed in accordance with California Government Code Section 53069.85 that the Contractor will forfeit and pay to the City liquidated damages in the amount set forth in Exhibit F, COMPLETION TIMES AND LIQUIDATED DAMAGES, per day for each and every calendar day that expires after the times for completion specified for each construction milestone except as otherwise provided by extension of time pursuant to Article 7.4-TIME EXTENSIONS. It is further understood and agreed in accordance with California Government Code Section 53069.85 that the liquidated damages sum specified in this provision is not manifestly unreasonable under the circumstances existing at the time this Agreement was made, and that the City may deduct liquidated damages sums in accordance with this provision from any payments due or that may become due the Contractor.

Liquidated damages will continue to accrue at the stated rate until the completion of any defined completion milestone(s) and Final Completion of Work, all as set forth in Exhibit H, COMPLETION TIMES AND LIQUIDATED DAMAGES. Accrued liquidated damages may be deducted by the City from amounts due or that become due to the Contractor for performance of the Work. Liquidated damages may not be waived or reduced by the City unless expressly waived or reduced in writing by the City.

ARTICLE 8 - PAYMENT AND COMPLETION

8.1 Guaranteed Maximum Price (“GMP”) and GMP Shared Savings

CITY shall pay for CONTRACTOR's performance under this Agreement the Cost of the Work and Fee (as described in Exhibit C-GUARANTEED MAXIMUM PRICE, FEE, AND COST OF WORK hereto); provided, however, that the sum of the Cost of the Work and the Fee shall not exceed the GMP, as adjusted by Change Order/Directive in accordance with the Contract Documents. CONTRACTOR bears the risk of its increased costs due to market price increases (including escalating costs for materials).

8.2 Shared Savings

CONTRACTOR shall be compensated for actual work completed based on the Cost of Work and Fee up to the amount of the GMP. If CONTRACTOR's actual total Cost of the Work and Fee is less than the GMP, upon Final Completion, the CONTRACTOR shall be entitled to receive a negotiated percentage of the GMP Savings as described in Exhibit C-GUARANTEED MAXIMUM PRICE, FEE, AND COST OF WORK hereto. “GMP” Savings shall mean the positive difference, if any, when the actual Total Cost of the Work and Fee is subtracted from the GMP; provided, however, that unused Allowance monies, if any, shall not be subject to shared savings.

8.3 Schedule of Values

Contractor will be required to submit a complete schedule of values upon selection of proposal to facilitate contract negotiation within ten (10) days of notice. Schedule of values should set forth the various portions of the Work, and the portions of the GMP allocated to each portion.

8.4 Applications for Payment

CONTRACTOR shall deliver to CITY not more than once each month an Application for Payment covering the Cost of Work and Fee applicable to the Work performed during the immediately preceding month. With each Application for Payment CONTRACTOR shall submit such evidence as may be necessary to demonstrate costs incurred on account of Cost of the Work during such month and the percentage of completion of each category of Work. CITY may reject requests for payment, or portions thereof, for Work, or portions thereof, not performed or completed.

8.5 Amount of Progress Payments

CITY shall pay CONTRACTOR the actual Cost of the Work and Fee, if any, through the period covered by the Application for Payment, less Retention as set forth in Article 8.6 below, provided that the aggregate payment amount before retention will not exceed the percentage of completion of the Work multiplied by the GMP (excluding items of the GMP not subject to retention). CITY may additionally withhold from progress payments such amounts pursuant to stop payment notice claims as required by law and CITY administrative regulation 4.01.

8.6 Retention, Escrow Agreement, Final Payment

Five percent (5%) Retention shall be withheld from each progress payment until the expiration of thirty-five (35) days following the recordation of the notice of completion; provided however, CITY shall continue to retain such amount as required by law and/or CITY administrative regulation 4.01. CONTRACTOR may elect to establish an escrow account for securities in-lieu of the five percent (5%) Retention in a form of escrow agreement compliant with law and subject to approval by the CITY

Attorney (form of escrow agreement is attached as Exhibit F–IN LIEU OF SECURITIES ESCROW AGREEMENT. Release of Retention monies shall constitute the Final Payment.

8.7 Early Release of Subcontractor Retention. [reserved]

8.8 Payment for On-Site and Off-Site Stored Materials.

8.8.1 Payment for Materials:

- 8.8.1.1 Payment may be made for those materials delivered to the site but not incorporated in the work to the extent that the materials are included in the Construction Schedule as cost-loaded material delivery activities.
- 8.8.1.2 Payment for materials delivered will not be made before the respective shop drawings, installation instructions and O&M manuals have been submitted, reviewed, and accepted in accordance with Section 01330, Submittal Procedures.
- 8.8.1.3 To receive payment for materials delivered to the site, but not incorporated in the work, it shall be necessary for the CONTRACTOR to submit to the ENGINEER, at least 7 days prior to the end of said month, a list of such materials.
- 8.8.1.4 At their sole discretion, the ENGINEER will approve items for which payment as for On-Site and Off-Site Stored Materials is to be made.
- 8.8.1.5 The list of materials and invoices shall be clearly identified by referencing the associated activity on the cost loaded schedule.
- 8.8.1.6 Payment for materials delivered to the site or a bonded warehouse will be made in an amount equal to the respective suppliers' invoices(s) for the actual net cost for the item(s) delivered plus delivery charges in accordance with payment terms of the Agreement.
- 8.8.1.7 The CONTRACTOR's actual net cost for the materials must be supported by invoices of suppliers.

- 8.8.2 Proper storage and protection of materials shall be provided by the CONTRACTOR. Final payment shall be made only for materials actually incorporated in the work and, upon acceptance of the work, all materials remaining for which advance payments had been made shall revert to the CONTRACTOR, unless otherwise agreed, and payments made for these items shall be deducted from the final payment for the work.

8.9 Title to Construction Work

CONTRACTOR warrants that title to all Construction Work covered by an Application for Payment shall pass to CITY no later than the time of payment. CONTRACTOR further warrants that upon submittal of an Application for Payment, all Construction Work for which Applications for Payment have been previously issued and payments received from CITY shall, to the best of CONTRACTOR's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of CONTRACTOR, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials or equipment relating to the Construction Work.

8.10 Withholding of Payment

CITY may withhold payment on account of an Application for Payment if required or authorized by any Applicable Law, or to the extent necessary to protect CITY from loss because of:

- A. defective Work not remedied;
- B. third party claims filed or reasonable evidence indicating probable filing of such claims;
- C. failure of CONTRACTOR to make payments of undisputed amounts to Subcontractors for labor, materials or equipment;
- D. damage to CITY or to a Separate Contractor caused by the fault or neglect of CONTRACTOR to the extent not reimbursed by insurance; or
- E. reasonable evidence that the Work will not be Substantially Completed within the Contract Time due to Inexcusable Delay, and that the unpaid balance of the GMP would not be adequate to cover liquidated damages for the anticipated Inexcusable Delay.

8.11 Failure of Payment; Interest

In accordance with Public Contract Code §20104.50, CITY shall pay CONTRACTOR interest on any progress payment, which is made by CITY more than thirty (30) days after CITY receives an undisputed and properly submitted written payment request. Said interest shall be equal to the rate set forth in Code of Civil Procedure §685.010(a), and shall begin to accrue upon the expiration of said thirty (30) day period. Any written request for a progress payment which CITY determines to be disputed, improper or not suitable for payment for any reason shall be returned to CONTRACTOR within seven (7) days after receipt by CITY, along with a written statement of the reason or reasons why such request is disputed, improper or not suitable for payment.

8.12 Occupancy by CITY Prior to Acceptance

CITY reserves the right to Beneficial Occupancy and without charge by CONTRACTOR. In those areas of the Work which are completed, CITY may store materials, equipment, and supplies, and may perform partial operation.

8.13 Substantial Completion

When CONTRACTOR considers the entire Work complete and ready for its intended use, CONTRACTOR shall certify in writing to CITY that the entire Work is substantially complete provide CITY with a Certificate of Substantial Completion. Within a reasonable time thereafter, CITY and CONTRACTOR shall make an inspection of the Work to determine the status of completion. If CITY does not consider the Work substantially complete, CITY will notify CONTRACTOR in writing giving reasons therefor. If CITY considers the Work substantially complete, CITY will accept a corresponding partial Certificate of Substantial Completion. There shall be attached to the Certificate a Punch List of items to be completed or corrected before Final Acceptance and Final Payment.

8.14 Final Completion

When the Work is fully completed, CONTRACTOR shall provide CITY with a Certificate of Final Completion and shall request final inspection in writing. Additionally, CONTRACTOR shall provide legally effective releases or waivers satisfactory to CITY of all lien rights arising out of or liens filed in connection with the Work. Within ten (10) calendar days of receipt of such completed request form, CITY shall make final inspection. If following final inspection, CITY determines that the Work (including all Punch List items) has been fully completed, CITY will process a Notice of Completion. If CITY determines that the Work is not complete after receipt of certification from CONTRACTOR, CONTRACTOR shall be notified in writing of deficiencies. After the deficiencies have been corrected, the procedure for final inspection as set forth above shall again be initiated by CONTRACTOR. In the

event CITY determines the Work is fully completed, CITY shall initiate process of attaining a notice of completion.

8.15 Waiver of Claims at Final Payment

Acceptance of final payment by CONTRACTOR shall constitute a waiver of all claims by CONTRACTOR, except those previously made in writing and identified as unsettled at the time of final payment.

8.16 Construction Allowance Items [reserved]

CITY shall pay for CONTRACTOR's performance under this Agreement the Cost of the Work and Fee (as described in CONSTRUCTION ALLOWANCE ITEMS AND AMOUNTS hereto); provided, however, that the sum of the actual total cost of each allowance item shall not exceed the approved Allowance Amount of each, as adjusted by Change Order/Directive in accordance with the Contract Documents. CONTRACTOR bears the risk of its increased costs due to market price increases (including escalating costs for materials).

8.17 Contingency [reserved]

8.18 Audits and Access to Records.

The Contractor must maintain all books, records, documents, and other evidence directly pertinent to the performance of the Work in accordance with generally accepted accounting principles and practices. The Contractor must also maintain all financial information and data used by the Contractor in the preparation or support of any cost submission, including the Contractor's estimate, any Change Order, Dispute, Claim, Pay Application, or other request for equitable adjustment. City and its representatives will have access upon five (5) business days advanced written notice, during normal business hours, to all Contractor's books, summary reports, records, accounts, estimates, documents, detailed financial information, certified payroll records, AIS records and all other information and documentation relevant to the Work for the purposes of inspection, audit, and copying. The Contractor will, at no cost to City, provide reasonable facilities for such access, and inspection purposes. The City will arrange for and pay all costs of copying.

The Contractor agrees to include and make the requirements of this article, applicable to all subcontractors listed in their DESIGNATION OF SUBCONTRACTORS list.

Audits conducted pursuant to this article, will be in accordance with general accepted auditing standards and established procedures and guidelines of the reviewing or audit agency.

The Contractor agrees to provide requested information and reports resulting from access to records to City, subject to execution of an appropriate confidentiality order if requested.

Records must be maintained and made available during the performance of the Work and for four (4) years after Final Payment, and until final settlement of all Disputes or Claims, whichever occurs later.

The right of access provisions of this article, applies to all financial records pertaining to the Agreement:

- A. To the extent the records pertain directly to Agreement performance;
- B. To the extent required for verification of the costs incurred where such costs are the basis for billings pursuant to the Agreement including Change Orders;
- C. To the extent there is credible evidence that Contractor has violated the federal False Claims Act and the California False Claims Act or that fraud, gross abuse, or corrupt practices may be

involved; and

D. If the Agreement is terminated for default or convenience.

Access to records is not limited to the required retention periods. City's Authorized Representative or designee must be granted access to records at any reasonable time for as long as the records are required to be maintained.

In the event that City's audit determines that Contractor has billed for any costs that are ineligible for reimbursement or for any reason should not have been paid, or the Contractor's fee has been improperly applied or calculated, Contractor shall promptly refund all improper payments following receipt of City's written notice and explanation of the alleged overpayments or improper fee and shall be responsible to pay City for the City's reasonable costs to perform the audit unless the Contractor establishes that the overpayment or improper fee was the result of an unintentional, inadvertent clerical error.

ARTICLE 9 - CHANGES IN THE WORK

9.1 Contract Held Valid.

Any change in the Scope of Work or deviation from the Contract Documents including, without limitation, Extra Work or Omitted Work, shall not invalidate the original Contract, and shall be performed under the terms of the Contract Documents. The difference in cost of the work affected by such change will be added to or deducted from the Guaranteed Maximum Price (GMP), as the case may be.

9.2 Execution of Changes

- A. Only the Contractor or the City may initiate changes in scope of Work or deviation from Contract Documents.
- B. Changes in the Work may be accomplished after execution of the Contract where they are documented by an executed Field Directive, Field Order, or Change Order in accordance with applicable provisions of the Contract Documents.
- C. Changes in the Work shall be performed under applicable provisions of the Contract Documents. If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are so changed in a proposed Change Order or Change Directive that application of such unit prices to quantities of Work proposed will cause substantial inequity to CITY or CONTRACTOR, the applicable unit prices for such change order/directive shall be equitably adjusted. No GMP adjustment on account of a Change Order shall include CONTRACTOR's or Subcontractor's profit, Fee, home office overhead or a formula allocation of indirect costs unless otherwise specifically allowed hereunder.
- D. The prices agreed upon and any agreed upon adjustment in Contract Time shall be incorporated in the written order issued by the City, which shall be written so as to show acceptance on the part of the Contractor as evidenced by its signature. By signature of the Change Order, the Contractor acknowledges that the adjustments to the GMP and Contract Time contained in the Change Order are in full satisfaction and accord and so waives any right to claim any further cost and time impacts at any time during and after completion of the Contract for the changes encompassed by the Change Order.

9.3 Definitions

9.3.1 Incidental Work

Incidental work includes reasonably implied parts of the work not shown on Drawings nor described in Specifications, but which is necessary or normally or customarily required as a part of the Work shown on the Drawings or described in the Specifications to provide a complete installation which is fully connected and tied into the existing facilities and processes and is fully functional and operational. Incidental work shall be treated as if fully described in Specifications and shown on Drawings, and expense thereof shall be included in the Guaranteed Maximum Price (GMP). Incidental work shall be performed by Contractor and included in the Cost of the Work without an increase in the GMP.

9.3.2 Extra Work

New or unforeseen work, or added work of a different character or function; or that involves revisions of the details of the Work on which Contractor based its GMP. If the extra work increases the Contractor's Cost of the Work and/or time to perform the Work, and is approved by the City via a written Change Order, the GMP and/or Contract Times shall be adjusted as provided in the Contract Documents. Extra Work shall not include Work which is shown, detailed or specified in the Contract Documents or which constitutes "Incidental Work" as defined within the Contract Documents definition above.

9.4 Change Directives

Changes in the Work may be directed by a Construction Change Directive prepared and signed by the OWNER'S REPRESENTATIVE. A Construction Change Directive signed by the CONTRACTOR indicates agreement of the CONTRACTOR with the actions specified in the Directive, including the inclusion or absence of an adjustment in Contract Amount or Contract Time or the method for determining them. The following procedures shall apply with respect to Change Directives.

- A. Upon receipt of a Change Directive signed by CITY, CONTRACTOR shall promptly proceed with the change in the Work involved and advise CITY of CONTRACTOR's agreement or disagreement with the method, if any, provided in the Change Directive for determining the proposed adjustment in the GMP or the Schedule. If CONTRACTOR receives a written communication signed by CITY which CONTRACTOR believes is a Change Directive but is not so identified, it shall not proceed with the change in the Work until it receives from CITY a written confirmation that such communication is in fact a Change Directive.
- B. A Change Directive signed by CONTRACTOR indicates the agreement of CONTRACTOR with the contents thereof, and shall convert the Change Directive to a Change Order.
- C. If CONTRACTOR does not respond promptly or disagrees with the method for adjustment in the GMP or Schedule, the method and adjustment shall be determined as provided in these contract documents. In such case, CONTRACTOR shall keep and present, in such form as CITY may request, an itemized accounting, together with appropriate supporting data.
- D. Pending final determination of cost to CITY, amounts not in dispute shall be included in Applications for Payment. The amount of credit to be allowed by CONTRACTOR to CITY for a deletion or change which results in a net decrease in the GMP shall be actual net cost. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for Fee shall be figured on the basis of net increase, if any, with respect to that change.
- E. If CITY and CONTRACTOR do not agree with the adjustment in the Schedule or the GMP, such disagreement shall be submitted for dispute resolution in accordance with the provisions of

this Contract.

9.5 Contract Modification Procedures

9.5.1 Request for Proposal (RFP)

- A. The City may issue a Request for Proposal (RFP) to the Contractor in connection with the City considering an addition to, or deletion from, or other change in the Work. RFPs shall not be deemed to be directions to proceed with any addition, deletion or change to the Work.
- B. Whenever the Contractor is required to prepare a cost proposal in response to an RFP, and whenever Contractor is entitled to submit a cost proposal and elects to do so, Contractor shall prepare and submit to City for consideration a cost proposal using a form provided by the CM or the Contractor may submit another form if deemed acceptable to the Construction Manager. All cost proposals must contain a complete breakdown of costs of credits, deducts, and extras; and itemize materials, labor, equipment, special services, taxes, and markups. All Subcontractor Work shall be so indicated. Individual entries on the Cost Proposal form shall follow the cost items defined in Cost Determination in this Section. The Contractor shall provide all required cost information requested by an RFP within fourteen (14) days after receiving the RFP.
- C. Upon receipt of the Contractor's cost proposal, which shall include a detailed itemized breakdown as prescribed in this Section, the Construction Manager will act promptly thereon. If Construction Manager takes no exception to the cost proposal, Construction Manager will prepare Change Order for City and Contractor signatures, provided that City has elected to proceed with the changed Work. If a cost proposal is not acceptable to the Construction Manager, the Construction Manager will indicate to Contractor the unacceptable items in the proposal. Except as otherwise provided in this Section, Contractor shall have seven (7) days in which to respond to Construction Manager with a revised cost proposal.
- D. If the parties do not agree on the price or time adjustment in response to an RFP, City may issue a unilateral change order pursuant to the Agreement, Article 9.5.3-FIELD ORDER-FORCE ACCOUNT WORK. Contractor shall perform the changed Work, notwithstanding any claims or disagreements of any nature, with the understanding that it preserves all rights to pursue adjustments to the GMP and/or Contract Time in connection with the change.
- E. When the necessity to proceed with a change does not allow the Construction Manager sufficient time to conduct a proper check of the Contractor's cost proposal (or revised cost proposal), Construction Manager may order Contractor to proceed with the change, with the understanding that parties will negotiate in good faith to determine the value of the change at the earliest practical date. In this event, the value of change, with corresponding equitable adjustment to the GMP, shall not be more than any increase or less than any decrease proposed by the Contractor's cost proposal.

9.5.2 Field Directive/Supplemental Instruction Resulting from RFI's, Submittals or other instructions from the Engineer and/or City

- A. The Contractor may be issued a Field Directive or Supplemental Instructions resulting from an RFI, Submittal or other instructions from the Engineer and/or City.
- B. If the Contractor is satisfied with Field Directive or Supplemental Instruction and does not request change in the GMP or Contract Time, then the Field Directive or Supplemental Instruction shall be executed by the Contractor without a Change Order.

- C. If the Contractor believes the Field Directive/Supplemental Instruction results in additional Cost of the Work or a change in the GMP or Contract Time, then Contractor must notify the Construction Manager within ten (10) days following receipt of Field Directive/Supplemental Instruction and before proceeding with this work. If the Construction Manager considers Contractor's notice to be justified, the instructions of the Field Directive/Supplemental Instructions will be revised or a proposed Change Order will be issued for the City's consideration. The Contractor shall have no claim for additional compensation or extension of the schedule because of any such additional instructions unless the Contractor provides the Construction Manager written notice thereof within the time frame specified above, unless the City is not Prejudiced by Contractor's untimely notice. In addition, the Contractor shall within fifteen (15) days from the date of the Contractor furnishing written notice provide a detailed justification and analysis as well as estimated pricing and Time Impact Analysis to support any request for time extension. Should the work at issue impact Contractor's operations for a period longer than fifteen (15) days, Contractor shall update its request for additional compensation and/or additional time, every thirty (30) days until the disputed work is no longer allegedly impacting Contractor's operations. In addition, Contractor shall comply with the requirements of the Agreement concerning Records of Disputed Work and Submission of Disputed Work Costs, respectively.
- D. Should the Contractor proceed with the work affected before receipt of a response from the Construction Manager, any portion of the work which is not done in accordance with the City's interpretation, clarifications, instructions, or decisions is at Contractor's risk.
- E. If the Contractor and Construction Manager still do not agree on the Field Directive's impact to the GMP or Contract Time, then Contractor may appeal to the Engineer for decision. If the Engineer concurs with the Construction Manager's position, the Contractor will be directed again in writing to make the changes covered in the Field Directive/Supplemental Instructions and Contractor shall do so notwithstanding any claims or disagreements of any nature. Contractor may file a Notice of Potential Claim and Claim in accordance with the Agreement.

9.5.3 Field Order- Force Account Work

- A. If either the amount of work or payment for a Change Order cannot be determined or agreed upon beforehand, the City may direct by issuing a unilateral Change Order or Field Order that the work be done on a force account basis. The term "force account" shall be understood to mean that payment for the work will be made based on an accounting of the Contractor's Cost of the Work as described in the Agreement, Exhibit C-Guaranteed Maximum Price, Cost of Work and Fee, and Article 9.6-Cost Determination.
- B. Prior to the commencement of force account work, the Contractor shall notify the Construction Manager of its intent to begin work. The Contractor shall maintain accurate cost records, separate from the cost categories for the balance of the Work, which depict all costs incurred for the authorized force account work. Upon request by the Construction Manager or City, these cost records must be made available for review as provided in the Agreement.
- C. All subcontractors that expend labor, equipment and materials on force account work shall record those costs daily by using a form provided by or approved by the Construction Manager. The subcontractor reports, if found to be correct, shall be signed by the subcontractor, Contractor and Construction Manager, or inspector, and a copy of which shall be furnished to the Construction Manager no later than the working day following the

- subcontractor's performance of said work. The Daily Extra Work Report sheet shall thereafter be considered the true record of force account work provided by the subcontractor. If the Construction Manager, or inspector, does not agree with the labor, equipment and/or materials listed on the subcontractor's daily force account report, the Construction Manager, or inspector, shall sign-off on the items on which they are in agreement. The Construction Manager shall then review the items of disagreement and will advise the Contractor, in writing, of its determination. If the Contractor disagrees with this determination, it shall have the right to file a claim notice per the Agreement.
- D. The Contractor shall maintain its records in such a manner as to provide a clear distinction between the direct costs of subcontractor work paid for on a force account basis and the costs of other operations.
 - E. To receive partial payments and final payment for force account work, the Contractor shall submit, in a manner approved by the Construction Manager, detailed and complete documented verification of the Contractor's and any of its subcontractor's Costs of the Work involved in the force account pursuant to the pertinent unilateral Change Order or Field Order. Such costs shall be submitted within thirty (30) days after said work has been performed. No payments will be made for work billed and submitted to the Construction Manager after the thirty (30) day period has expired, unless City is not prejudiced by Contractor's untimely billing and submittal of costs.

9.5.4 Construction Change Directive (CCD)

- A. CCD is a written order prepared by the Construction Manager and signed by the City, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Price or Contract Time.
- B. If at any time the City believes in good faith that a timely Change Order will not be agreed upon using the foregoing procedures, the City may issue a CCD with its recommended cost and/or time adjustment. Upon receipt of CCD, Contractor shall promptly proceed with the change of Work involved and concurrently respond to City's CCD within ten (10) calendar days.
- C. Contractor's response must be any one of following:
 - 1. Return CCD signed, thereby accepting City's response, time, and cost.
 - 2. Submit a (revised if applicable) Cost Proposal with supporting documentation (if applicable, reference original Cost Proposal number followed by letter A, B, etc. for each revision), if City so requests.
 - 3. Give notice of intent to submit a Claim as described in the Agreement.
- D. If the CCD provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:
 - 1. Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation.
 - 2. Unit prices stated in the Contract Documents or subsequently agreed upon.
 - 3. Cost to be determined in a manner agreed by the City and Contractor.
 - 4. Cost to be determined pursuant to Article 9.6-Cost Determination.
- E. A CCD signed by Contractor indicates the agreement of Contractor therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such

agreement shall be effective immediately and shall be recorded as a Change Order.

- F. If Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the method and the adjustment shall be determined by Construction Manager on the basis of reasonable expenditures and savings of those performing the Work attributable to the change including, in case of an increase in the Contract Sum, an allowance for overhead and profit in accordance with Articles 9.6.3 and 9.6.4-Allowable Markups. If the parties still do not agree on the price for a CCD, Contractor may file a Claim in accordance with the Agreement. Contractor shall keep and present, in such form as Construction Manager may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this paragraph shall be limited to those provided in Article 9.6-Cost Determination.
- G. Pending final determination of cost to the City, amounts not in dispute may be included in Applications for Payment.

9.5.5 Documentation for All Changes

- A. Upon request of the Construction Manager, the Contractor shall provide the following information to support the request for change in cost or time:
 - 1. Copy of original quotations, purchase order or invoices to verify costs included in original pricing.
 - 2. Copy of all quotations, purchase order or actual invoices to support new costs submitted.
 - 3. Copy of all insurance and bond costs resulting from change.
 - 4. Copy of all quantity takeoff sheets for materials, labor and equipment.
 - 5. Certified payroll records.
 - 6. A list of equipment with manufacturer's name and model number and the alphanumeric designation used in the Equipment Rental Rates prepared by the California Department of Transportation, unless the equipment is included in the Agreement, Exhibit C-Guaranteed Maximum Price, Cost of Work and Fee.
 - 7. Invoices for all non-owned rental equipment.
 - 8. Other information, as reasonably required, to document the labor, equipment and materials used.
- B. Correlation of Other Items:
 - 1. Contractor shall revise Application for Payment forms to record each authorized Change Order or CCD as a separate line item and adjust the GMP on the next monthly progress billing.
 - 2. Contractor shall revise the Progress Schedules prior to the next monthly pay period to reflect the effects of all authorized Change Orders or CCDs.
 - 3. Contractor shall enter changes in Project Record Documents prior to the next monthly pay period and provide a copy to the Engineer with progress billing.

9.6 Cost Determination

With respect to Change Orders which increase or decrease the Scope of Work described in Exhibit B- Contractor's Technical Proposal, are not due to the errors or omissions of CONTRACTOR and are not attributable to Excusable Delays or the contingencies set forth in Article 9.7 below, the GMP shall be increased (or decreased) by the following "Scope Change Costs":

9.6.1 Contractor's Direct Cost Categories

The Contractor's allowed direct costs are found in the Agreement, Exhibit C-Guaranteed Maximum Price, Cost of Work and Fees.

9.6.2 Subcontractor's Direct Cost Categories

The categories described below are defined to be direct costs for subcontractors at all tier levels.

No other type of costs will be allowable as a direct cost. Direct costs shall not include any labor costs or indirect costs pertaining to the subcontractor's managers or superintendents, their office and engineering staffs, the cost of their offices, facilities, vehicles, or anyone not directly employed on such work, nor small tools (as defined in item C-Subcontractor's Construction Equipment Rental Cost of this Article 9.6.2) nor supplies. All such items are considered indirect costs which form a part of the Contractor's and subcontractors' overhead expenses.

A. Subcontractor's Direct Field Labor

1. The cost of labor for workers (including forepersons when authorized by the Construction Manager) used in actual and direct performance of the work by the subcontractor will be the sum of the following:
 - a. The actual wages paid plus any employer payments to, or on behalf of workers for fringe benefits including health and welfare, pension, vacation and similar purposes.
 - b. All payments imposed by State and Federal Laws including, but not limited to, workers' compensation insurance, and social security payments. The rates used for workers' compensation insurance shall be actual rates paid by the subcontractor for each specific craft and broken down by wage rate if applicable to that craft.
 - c. General Liability insurance burden, if applied to subcontractor's payroll. By formal submittal, the subcontractor shall provide adequate backup information to Construction Manager to verify this burden rate is indicative of the actual rates paid by the Contractor as a percent of labor.
2. Except as otherwise may be agreed to in writing by the Construction Manager, the actual wages and benefits paid for manual classifications of subcontractor's on- site workers will not, in the aggregate, be less than the current applicable wage for each classification as established by the State of California Department of Industrial Relations.
3. Specifically prohibited from the subcontractor's labor costs are other payroll burden factors such as small tools (as defined in item C below), bonuses of any kind and safety incentives.
4. Subcontractor shall include the actual travel and/or subsistence costs, if any, as a separate line item under the labor cost category. Except as otherwise may be agreed to in writing by the Construction Manager, the actual travel and/or subsistence costs will not be less than established in the State of California Department of Industrial Relations.

B. Subcontractor's Materials

1. The cost of all materials, including all factory testing, freight and delivery costs of materials, accepted by the City and used in performing the work will be the cost to the subcontractor from the supplier thereof. All discounts for early payment shall accrue to the subcontractor unless the City's payment to subcontractor is paid to subcontractor before discount payment is due in which case discount savings will be fully credited to City on next progress billing. All rebates and all returns from the sale of surplus materials shall be credited to the Cost of the Work.
2. At the request of the Construction Manager, the subcontractor will obtain more than one quote for materials to be used to complete change order or force account work. Copies of all quotes shall be shown to the Construction Manager.
3. For materials used in construction of the Project which may have additional uses on other projects for the subcontractor's benefit, such as dimensional lumber, beams and plywood to form concrete or temporary diversion pipes, the subcontractor shall submit a material unit cost to cover use of these types of materials for the approval of the City prior to delivery to the Work Site. This unit cost shall take into account the use of such materials on other past and future projects.

C. Subcontractor's Construction Equipment Rental Cost

1. The cost of construction machinery and equipment for changes shall be based on fair rental cost or equivalent rental cost of owned equipment. Such costs will be allowed for only those days or hours during which the equipment is in actual use. Payment shall be based on actual rental and transportation invoices but shall not exceed the rental rates listed for such equipment in the State of California Department of Transportation publication entitled "Labor Surcharge and Equipment Rental Rates" which is in effect on the date upon which the work is performed. City-operated equipment rates shall not exceed the rates in the aforesaid Rental Rate publication plus the labor costs as provided in this section.
2. The aforesaid rental rates shall be deemed to include the cost of fuel, power, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of all kinds, depreciation, storage, insurance, labor except for construction equipment operators and any and all costs to the subcontractor incidental to the use of such construction equipment. All equipment must be in good working condition and suitable for the purpose for which it is to be used, as judged solely by the Construction Manager. Rental time will not be allowed while equipment is inoperative due to breakdowns.
3. Compensation for idle time of equipment through delays caused by the City will be made consistent with Section 8-1.09, Right of Way Delays, of the Caltrans Standard Specifications.
4. Small Tools. Individual pieces of equipment or tools having a replacement value of \$500 or less, whether or not consumed by use, are considered to be small tools and no rental payment will be made unless it can be demonstrated that the particular item is needed and purchased by the subcontractor solely for the completion of the Change Order work.
5. The rental time to be paid for equipment used to complete change order and force account work will be the time the equipment is in operation on the change order or force account work being performed or an approved outside rental rate from an equipment rental company provided such rental rate was approved by the Construction Manager

prior to the equipment's transportation to the project for use in the change order or force account work.

6. For equipment not already on the project site to complete other portions of the Work, loading and transporting costs will be allowed for equipment approved by the Construction Manager to complete change order or force account work. The cost of transporting equipment in low bed trailers shall not exceed the hourly rates charged by established haulers in the area. The cost of transporting equipment shall not exceed the applicable minimum established rates of the California Department of Transportation.

D. Special Services used by Subcontractor

When the Construction Manager and the Contractor, by agreement, determine that special service or item of extra Work cannot be performed by forces of a subcontractor, service or extra Work item may be performed by a specialist. These types of services will be paid based on current market rates, subject to Construction Manager approval, which approval will not unreasonably be withheld.

9.6.3 Allowable Mark-Ups - Contractor

The Contractor's allowed mark-ups are found in Exhibit C Guaranteed Maximum Price, Cost of Work and Fees.

9.6.4 Allowable Mark-Ups – Contractor's Subcontractor(s)

The subcontractors shall be entitled to compensation for indirect field and home office overhead costs, and profit for Change Order work. This compensation shall be in the form of markup percentages applied to the direct cost of the Change Order increase or decrease of work, as further described below. The maximum markup which will be allowed for the subcontractor's combined overhead and profit will be:

- A. For work by its own organization, the subcontractor may add up to the following percentages:
 - Direct Field Labor: 15 percent
 - Materials: 10 percent
 - Equipment (owned or rented): 10 percent
 - Special Services: 5 percent
- B. For all such work done by sub-tier-subcontractors, such sub-subcontractors may add the same percentages as the subcontractor as listed in (9.6.4.A) above to its actual net increase in costs for combined overhead and profit. The subcontractor may then add up to five percent (5%) of the sub-subcontractor's total for its combined overhead and profit. No additional mark-ups will be allowed for further tier-ed subcontracts below a sub-subcontractor.
- C. When both additional and deleted work are involved in any one change order, the combined overhead and profit shall be calculated on the basis of the net change, whether an increase or decrease. For Change Order work which results in a net decrease in cost a minimum of five percent (5%) markup shall be added by the subcontractor to the sum of the direct labor, materials and equipment as a deduction for overhead, profit, and reduction in bond and insurance. The subcontractor shall not be entitled to nor claim for anticipated profits on work that has been omitted.
- D. To the total of the subcontractor's actual costs and fees allowed herein under, not more than two percent (2%) shall be added for additional bonds, if bonds were required by the Contractor. The compensable percentage for the subcontractor's bonds shall be based on the

subcontractor's actual bond costs, as substantiated through documentation formally submitted to the Construction Manager.

- E. The added fixed fees shall be considered to be full compensation, covering the cost of general supervision, overhead, profit, small tools, incidentals and any other general expenses. The above fixed fees represent the maximum limits which will be allowed, and they include, but are not limited, to the subcontractors' indirect field and home office expenses and all other costs for cost proposal preparation, schedule analysis and preparation, operation and maintenance manual documentation, and record documents and change order administration.

9.6.5 Materials On Order at Time of Change Order

If acceptable material is ordered by the subcontractor for the deleted work prior to the date of notification of such deletion by the Construction Manager, and if orders for such material cannot be canceled, the subcontractor will be paid at the actual cost. In such case, the material paid for shall become the property of the City and City will pay for the actual cost of any further handling. If the material is returnable to the vendor, and if the Construction Manager so directs, the material shall be returned and the subcontractor will be paid for the actual costs of charges made by the vendor for returning the material. The actual cost of handling returned material will be paid for by the City.

9.6.6 Disallowed Costs in Change Order and Force Account Work

Disallowed subcontractor costs in Change Orders include, but are not limited to:

- A. Interest cost of any type other than those mandated by statute;
- B. Change Order preparation and review costs;
- C. Meetings related to Change Orders;
- D. Schedule preparation costs;
- E. Submittal preparation costs;
- F. Accounting and Invoicing costs related to Change Orders;
- G. Developing and/or updating as-built drawings.

9.7 Change Orders on Account of Contingencies

With respect to Change Orders which are attributable to the following contingencies, the GMP shall be adjusted (increased or decreased) by the following **"Contingency Costs,"** consisting of the following:

9.7.1 Taxes

With respect to new, increases, or decreases in taxes arising after the date of this Agreement (other than taxes assessed based on the income of CONTRACTOR), the Change Order shall consist of the incremental amount of such new, increased or decreased taxes only.

9.7.2 Permit Fees

With respect to increases or decreases in fees for permits or other governmental certificates or instruments arising after the date of this Agreement, the Change Order shall consist of the incremental amount of such increases or decreases. To the extent this Agreement states that a permit or certificate is not required and

CONTRACTOR is later required to procure such permit or certificate, all out-of-pocket costs reasonably associated therewith shall be included in the Change Order

9.8 Change Orders on Account of Excusable Delays

9.8.1 Construction Delay Costs

With respect to Change Orders, which are attributable to Excusable Delays, and subject to the exceptions set forth in Article 9.8.2 below, the GMP shall be increased by the following “Delay Costs”:

- A. Increased allowable labor costs resulting from wage increases paid due to the delay;
- B. Premiums for overtime and extra shifts incurred in accelerating the Work, but only if acceleration is required in advance by CITY;
- C. Additional general conditions costs which would not have been incurred but for the delay (itemized, and not based on a formula allocation);
- D. Demobilization and remobilization costs; and
- E. Additional items of Cost of the Work attributable to the Excusable Delay and which would not have been incurred but for the Excusable Delay.

9.8.2 Exceptions

With respect to the Excusable Delays described in Article 7.4.2, the following exceptions to the cost provisions of Article 9.8.1 above shall apply:

- A. Failure or inability of CITY to make available any or all of the Site in accordance with the requirements of the Schedule is not a compensable delay if such Excusable Delay occurs prior to the commencement of the Construction Work.
- B. Failure or inability of CITY or CONTRACTOR to obtain necessary zoning changes, variances, code changes, permits or approvals from any governmental authority; is not a compensable delay if such Excusable Delay occurs prior to the commencement of the Construction Work.
- C. Changes in Applicable Laws. Additional compensation shall only be paid if the change in Applicable Law is not a change in law of general application (e.g., CAL/OSHA), but is a change in law specifically affecting the Project.

9.9 Change Orders on Account of Differing Site Conditions

If CONTRACTOR encounters conditions described in Article 7.3.3-Excusable Delays, in addition to the increase in the GMP on account of delay costs incurred by CONTRACTOR (as described in Section 9.8.1), the GMP shall also be increased by the additional Cost of the Work attributable to such conditions which would not have been incurred but for such conditions.

9.10 Cost Pricing Data and Access To Records

- A. All cost and pricing data submitted by the Contractor with respect to any change, prospective or executed, or any claim for extra compensation shall be a true, complete, accurate and current representation of actual cost and pricing of the work. The Construction Manager may require a formal certification as to cost and pricing data submitted by the

Contractor.

- B. The Construction Manager shall have access to the records of Contractor and Subcontractors as provided in Article 8.18-Audits and Access to Records.

9.11 Time Extensions on Account of Change Orders.

CONTRACTOR shall be entitled to a time extension in connection with any Change Order to the extent its time of performance is extended due to such Change Order. CONTRACTOR shall present to CITY a CPM analysis showing how the Change Order affects the critical path of the Work.

9.12 Force Majeure

There shall be no additional compensation to CONTRACTOR on account of Force Majeure.

ARTICLE 10 - CORRECTION OF WORK

10.1 Correction of Work Prior to Completion

Prior to the date of Final Completion, CONTRACTOR shall correct Work which (a) CITY reasonably rejects as being defective or nonconforming to the requirements of the Contract Documents in a written notice delivered to CONTRACTOR or (b) CONTRACTOR recognizes is defective or nonconforming to the Contract Documents. If other portions of the Work are adversely affected by or are damaged by such defective Work, CONTRACTOR shall also correct, repair or replace such affected or damaged Work, as well as any other property of CITY or others damaged by such defective or nonconforming Work. Prior to the date of Final Completion, the cost of correcting any damaged or defective work shall be paid as a Cost of the Work.

10.2 Correction of Work After Completion

For defects identified by CITY and for which CITY has notified CONTRACTOR within a period of twelve (12) months after the date of Final Completion, or within such longer period as may be provided by special warranties contained in the Contract Documents, CONTRACTOR shall re-execute, correct, repair or replace all Work found to be defective or nonconforming to the Contract Documents (whether arising from a construction defect, error, omission or deficiency). If other portions of the Work are adversely affected by or damaged by such defective Work, CONTRACTOR shall also correct, repair or replace such affected or damaged Work, as well as any other property of CITY or others damaged by such defective or nonconforming Work.

10.3 Acceptance of Nonconforming Work

If CITY prefers to accept Work, which is not in accordance with the requirements of the Contract Documents, CITY may do so instead of requiring its removal and correction, in which case the GMP will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

10.4 No Effect on Limitations

Nothing contained in this Article shall be construed to establish a period of limitation with respect to other obligations, which CONTRACTOR may have under the Contract Documents.

ARTICLE 11 - INSURANCE AND BONDS; INDEMNIFICATION

11.1 Insurance to be provided by CONTRACTOR

CONTRACTOR shall, at all times, maintain in full force and effect at a minimum the insurance required by this section; and CONTRACTOR shall not allow any subcontractor to commence Work until similar insurance required of the subcontractor has been obtained and filed.

11.2 Evidence of Coverage

CONTRACTOR shall, at all times, maintain in full force and effect at a minimum the insurance required by this section; and CONTRACTOR shall not allow any subcontractor to commence Work until similar insurance required of the subcontractor has been obtained and filed. An original Certificate of Insurance, and copies of all required endorsements, all in a form approved by the Risk Manager, evidencing all required coverage or policies shall be filed after the award of the bid and prior to approval of the Contract by the City Council. CONTRACTOR shall provide ten (10) Days prior written notice to CITY of any reduction of coverage limits or cancellation of the coverage or policies shall be given to the City of Roseville as Certificate holder.

11.3 Qualifying Insurers

With the exception of the State Compensation Insurance Fund, all required insurance policies shall be issued by companies licensed to do business in the State of California and who hold a current policy holders alphabetic and financial size category rating of not less than AVII according to the most recent issue of Best's Insurance Reports.

11.4 Summary of Insurance Requirements

Commercial General Liability, automobile liability, and worker's compensation insurance shall be maintained as shown in the table below.

Table 1: Summary of Insurance Required

Coverage	Limits
Commercial General Liability Minor Construction Projects (Projects under \$1,000,000)	\$2,000,000 each occurrence \$4,000,000 aggregate Personal Injury: \$2,000,000 each occurrence \$4,000,000 aggregate
Commercial General Liability Major Construction Projects (Projects over \$1,000,000)	\$5,000,000 each occurrence \$10,000,000 aggregate Personal Injury: \$5,000,000 each occurrence \$10,000,000 aggregate

Coverage	Limits
Comprehensive Automobile Liability For bodily injury (including death) and property damage which provides	Total limits of not less than One Million Dollars (\$1,000,000) combined single limits per accident, applicable to all owned, non-owned, and hired vehicles
Statutory Workers' Compensation and Employer's Liability Insurance	Limits of not less than One Million Dollars (\$1,000,000) per occurrence.
Builder's Risk/Course of Construction Insurance	All Risk" type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the Work performed under this Contract
Contractor's Pollution Liability Insurance	Combined Single Limit for each occurrence: \$2,000,000 General Aggregate: \$2,000,000
Professional Liability Submittals prepared by licensed California Engineer	Limit per claim of at least \$2,000,000, and a \$4,000,000 in the aggregate for errors and omissions.

11.4.1 Subcontractors

Minimum Amount of Coverage for Subcontractors who are NOT Listed Contractors included in Attachment 7 to the RFP "Statement of Subcontractors": The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following limits of liability: \$2,000,000 on account of any one occurrence for bodily injury and property damage, \$2,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than \$4,000,000, and \$2,000,000 products and completed operations aggregate, combined single limit. The Automobile Liability insurance policy shall provide minimum limits of \$1,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles. These minimum amounts of insurance coverage do not preclude the Contractor from requiring higher limits or additional insurance coverage as it deems necessary.

11.5 Commercial General Liability.

11.5.1 Coverage or Endorsements

The Commercial General Liability policy shall include coverage or endorsements for:

- A. Completed operations.
- B. Losses related to independent contractors, products and equipment.
- C. Explosion, collapse and underground hazards.

11.5.2 Copies to be Provided

The Commercial General Liability Insurance shall include the following, copies of which shall be provided:

- A. Inclusion of the CITY of Roseville, and its officers, agents, employees and volunteers, as additional insured (except for workers' compensation as respects services or operations under the Contract. The additional insured endorsement for the general liability policy shall be at least as broad as the Insurance Services Office ("ISO") CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsements must include coverage for on-going and completed operations. Endorsements shall cover the CITY of Roseville, its officers, agents, employees, and volunteers.
- B. Cross liability and severability of interest clauses providing that the insurance applies separately to each insured except with respect to the limits of liability.
- C. Stipulation that the insurance is primary and noncontributory, as evidenced by a separate endorsement (CG 20 01 04 13 or an equivalent) or section of the policy, and that neither CITY nor its insurers will be called upon to contribute to a loss.
- D. Such insurance shall specifically cover the contractual liability of the CONTRACTOR.
- E. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be: (1) the minimum coverage and limits specified in this Agreement; or (2) the full coverage and maximum limits of any insurance proceeds available to the named insureds, whichever is greater.
- F. Waiver of subrogation endorsement.
- G. CONTRACTOR shall furnish a certificate for the period covered.

11.5.3 Claims Made Coverage – Special Notice

SPECIAL NOTICE - CLAIMS MADE COVERAGE:

Liability insurance coverage may not be written on a "claims made" basis, except for Professional Liability insurance. The Certificate of Insurance must clearly provide that the coverage is on an "occurrence" basis.

11.6 Comprehensive Automobile Liability

Comprehensive Automobile Liability for bodily injury (including death) and property damage which provides total limits of not less than One Million Dollars (\$1,000,000) combined single limits per accident, applicable to all owned, non-owned, and hired vehicles.

11.7 Statutory Workers' Compensation and Employer's Liability Insurance

Statutory Workers' Compensation and Employer's Liability Insurance, including a waiver of subrogation endorsement and a Broad Form "All-States" Endorsement for all employees engaged in services or operations under the Contract. The employer's liability insurance shall provide limits of not less than One Million Dollars (\$1,000,000) per occurrence. Both the worker's compensation and employer's liability policies shall contain the Insurer's waiver of subrogation in favor of CITY, its officers, agents, employees, and volunteers.

11.8 Builder's Risk/Course of Construction Insurance

CONTRACTOR shall be responsible for all loss, damage or destruction whatsoever to the Work called for by this Contract until the approval of a Notice of Completion. CONTRACTOR shall secure "All Risk" type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the Work performed under this Contract (the value is presumed to be the Contract amount unless otherwise stated in Supplemental Conditions) and all materials, equipment, or other items to be incorporated therein while the same are located at the construction site, a bonded warehouse, or its place of manufacture. At any time, the policy shall cover the value of the Work completed. The policy shall cover hazards including the losses due to fire, explosion, hail, rain, lightning, flood (separate insurance as needed), vandalism, malicious mischief, wind, collapse, aircraft, and smoke.

The policies providing such insurance shall name CITY as a loss payee as its respective interests may appear, and certified copies of such policies shall be filed with CITY.

Builder's Risk Insurance is not required for coverage of losses in excess of five percent (5%) of the Contract amount for damages resulting from earthquake in excess of a magnitude of 3.5 on the Richter scale, or tidal waves. Coverage in the amount of five percent (5%) of the Contract amount for such losses is required.

11.9 Contractor's Pollution Liability Insurance

Contractor's Pollution Liability Insurance. The Contractor shall obtain Pollution Liability Insurance. This insurance shall be written in comprehensive form either as a separate policy or as an endorsement to Contractor's general liability coverage and shall cover liability for bodily injury, property damage, and environmental damage resulting from pollution and related cleanup costs incurred, all arising out of any Work to be performed under the Agreement, including liability for and defense of lawsuits and regulatory actions. Coverage shall be provided for both Work performed on Site, as well as during the transport of hazardous materials. Coverage shall apply to sudden as well as gradual pollution conditions, including without limitation conditions resulting from the escape or release of smoke, vapors, fumes, acids, alkalis, toxic chemicals, liquids, or gases, natural gas, waste materials, or other irritants, contaminants, or pollutants, including asbestos. The liability limits shall be not less than:

- Combined Single Limit for each occurrence: \$2,000,000.
- General Aggregate: \$2,000,000.

If the coverage required is written on a claims-made coverage form:

- The retroactive date must be shown, and this date must be before the award date of the Agreement.
- Insurance must be maintained, and evidence of insurance must be provided for at least five (5) years after final payment.
- If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the Agreement award date, the Contractor must purchase extended reporting period coverage for a minimum of five (5) years after Final Payment.
- A copy of the claims reporting requirements must be submitted to the City for review.

11.10 Professional Liability Insurance

All submittals required of the Contractor which are to be prepared by a licensed California engineer shall be prepared only by a licensed engineer who is covered by a professional liability insurance policy issued by a California-admitted carrier or a carrier authorized to do business in California with a Best's rating of

A-: VII or better, with an limit per claim of at least \$2,000,000, and a \$4,000,000 in the aggregate for errors and omissions. Such insurance shall be maintained in effect by said engineer at all times while performing Work on the Project and for at least three (3) years after Final Completion of the Project. Contractor shall submit an insurance certificate for such engineer prior to beginning Work for approval by the City.

11.11 Other Insurance Provisions.

- A. The requirements of the Contract Conditions as to types and limits of insurance coverage to be maintained by CONTRACTOR, and any approval of insurance by CITY, are not intended to, and shall not in any manner limit or qualify the liabilities and obligations otherwise assumed by CONTRACTOR pursuant to the Contract, including, but not limited to, the provisions concerning indemnification, nor preclude CITY from taking any other action available to it under any other provision of the Contract or law.
- B. CITY acknowledges that some insurance requirements contained in the Contract Conditions may be fulfilled by self-insurance on the part of CONTRACTOR. However, this shall not in any way limit liabilities assumed by CONTRACTOR under the Contract. Any self-insurance must be approved in writing by CITY, in its sole discretion and shall not reduce the limits of liability. Any deductibles or self-insured retentions (“SIR”) must be declared on the certificate of insurance and approved by CITY in writing. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or CITY. CITY reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.
- C. CONTRACTOR agrees to include in its contracts with all subcontractors the same requirements and provisions of this Contract, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor’s work. Furthermore, CONTRACTOR shall require its subcontractors to agree to be bound to CONTRACTOR and CITY in the same manner and to the same extent as CONTRACTOR is bound to CITY under this Contract. Additionally, CONTRACTOR shall obligate its subcontractors to comply with these same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of CITY’S indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request. Alternatively, CONTRACTOR may insure subcontractor(s) under its own policy.
- D. CITY, its officers, agents, employees and volunteers are to be covered as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of CONTRACTOR; and with respect to liability arising out of work or operations performed by or on behalf of CONTRACTOR including materials, parts or equipment furnished in connection with such work or operations. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under California Insurance Code Section 11580.04. In addition, the insurance policy may not contain language which prohibits additional insureds or other insurers from satisfying the self-insured retention or deductible.
- E. The limits of insurance required in this Contract may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of CITY (if agreed to in a written contract) before the CITY’S own insurance shall be called upon to protect it as a named insured.

- F. In the event CONTRACTOR retains the Architect/Engineer, CONTRACTOR shall require its Architect/Engineer to provide professional liability (errors and omissions) insurance (certificate and additional insured endorsement) in the amount of \$2,000,000.
- G. CITY RESERVES THE RIGHT TO WITHHOLD ANY PROGRESS PAYMENTS TO CONTRACTOR IN THE EVENT OF NONCOMPLIANCE WITH ANY INSURANCE REQUIREMENTS.

11.12 Payment, Performance and Warranty Bonds

CONTRACTOR shall furnish and deliver to CITY Performance, Labor & Materials, and Warranty Bonds issued by a surety prior to, and as a condition precedent to, commencement of the Construction Work on the Site; provided, however, the Warranty Bond shall be waived if such bond is not required pursuant to CITY'S request for proposals for the Project. The Labor & Materials and Performance Bonds shall be in a penal sum equal to one hundred percent (100%) of the GMP, and the Warranty Bond shall be in the penal sum equal to ten percent (10%) of the GMP. All bonds shall be in the form as set forth in Exhibit G hereto. All premiums for the Performance, Labor & Materials, and Warranty Bonds shall be a Cost of the Work. CITY shall have the right to withhold any payment(s) under this Agreement until CONTRACTOR has fully complied with this sub-section.

Table 2: Summary of Bonding Requirements

Bond Type	Requirement
Performance	100% of the Total Contract Price
Labor and Materials	100% of the Total Contract Price
Warranty	One year following the date of Final Completion Penal sum equal to ten percent (10%) of the GMP

11.13 Indemnification

To the fullest extent allowed by law, CONTRACTOR shall defend, indemnify, and hold harmless, CITY, its officers, employees, agents, and volunteers, and each and every one of them, from and against all actions, damages, claims, losses, expenses or other liabilities of every type and description, including reasonable attorney fees, to which they may be subjected or put, by reason of, or resulting from, the performance of the Work, whether upon or off the Work, including the loss of use thereof, that is caused in whole or in part by willful or reckless misconduct and/or any negligent or wrongful act or omission of CONTRACTOR, any Subcontractor, and anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, whether or not it is caused in part by a party indemnified hereunder, except for such claims arising from the sole negligence, active negligence, or willful misconduct of CITY. The parties intend that this provision shall be broadly construed.

CONTRACTOR's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.

ARTICLE 12 - SAFETY: PROTECTION OF PERSONS AND PROPERTY

12.1 Contractor's Responsibility for Site Safety

It is the intent of the parties that CITY is not an exposing, creating, controlling, or correcting employer under California Labor Code Section 6400. In accordance with generally accepted fabrication and construction practices and all applicable Laws and Standards and Codes, CONTRACTOR shall have the authority and be solely and completely responsible for the safety of all property utilized and all persons performing under this Agreement. Moreover, the CONTRACTOR shall be the controlling employer and has the authority and responsibility to enforce safety for all fabrication, construction work, and Work performed under this Agreement.

The services of CITY'S contract administrator, if any, in conducting a review of CONTRACTOR's performance under this Agreement is not intended to include a review of the adequacy of CONTRACTOR's work methods, equipment or safety measures. If CITY and/or its contract administrator observes a safety violation related to the CONTRACTOR's performance under this Agreement, then CITY and/or its contract administrator will report the violation to the CONTRACTOR who is then responsible for assuring the violation is abated.

- A. CONTRACTOR shall be responsible for initiating, maintaining and providing supervision of safety precautions and programs in connection with the Work, and shall also comply with any and all insurance carrier-mandated safety requirements and programs.
- B. CONTRACTOR is hereby informed that work on this Project could be hazardous. CONTRACTOR shall carefully instruct all personnel performing under this Agreement in potentially hazardous work areas as to potential dangers and shall provide such necessary safety equipment and instructions as are necessary to prevent injury to personnel and damage to property.
- C. All Equipment, Work and materials provided under this Agreement shall be in strict accordance with all applicable Laws and Standards and Codes, and attention is drawn to the requirements of CAL/OSHA.
- D. CONTRACTOR shall perform under this Agreement so as not to expose personnel to, or to discharge into the atmosphere from any materials brought to the Site by CONTRACTOR, smoke, dust, asbestos, toxic chemicals or other air contaminants in violation of applicable Laws and Standards and Codes.
- E. The Contractor shall indemnify, defend and hold CITY and Construction Manager, Engineer, Funding Agencies and their respective officers, officials, employees, agents and volunteers or other authorized representatives harmless to the full extent permitted by law concerning liability related to the Contractor's safety obligations in accordance with Article 11.14-Indemnification.
- F. If death or serious injuries or serious damages occur, the accident shall be reported immediately by telephone or messenger to both the Construction Manager and the CITY. In addition, the Contractor shall furnish the Construction Manager with a copy of the Employer's Report of Injury immediately following any incident requiring the filing of said report during the prosecution of the Work under this Agreement. The Contractor shall also furnish the Construction Manager with a copy of the Employer's Report of Injury involving any subcontractors on this Project. The Contractor shall make all reports as are, or may be, required by any authority having jurisdiction, and permit all safety inspections of the Work being performed under this Agreement.
- G. If a claim is made by anyone against the Contractor or any subcontractor on account of any accident, the Contractor shall promptly report the facts in writing to the Construction Manager,

giving full details of the claim.

12.2 Safety Program

The Contractor shall establish, implement, and maintain a written injury prevention program as required by Labor Code Section 6401.7. Before beginning the Work, the Contractor shall file with the Construction Manager a written Contractor Safety Program that provides for the implementation of all of the Contractor's safety responsibilities in connection with the Work at the Site and the coordination of that program and its associated procedures and precautions with safety programs, precautions and procedures of each of its subcontractors and other Contractors performing work at the Site. The Contractor shall be solely responsible for initiating, maintaining, monitoring, coordinating, and supervising all safety programs, precautions, and procedures in connection with the Work and for coordinating its programs, precautions, and procedures of the other contractors and subcontractors performing the Work at the Site. The Safety Program should contain all the necessary elements for the Contractor to administer its program on the Site

The Contractor's compliance with requirements for safety and/or the Construction Manager's acceptance for filing of the Contractor's Safety Program shall not relieve or decrease the liability of the Contractor for safety. The Construction Manager's review of the Contractor's Safety Program is only to determine if the above listed elements are included in the program. The Contractor's completion of review of the Safety Program does not confirm adequacy of the Program to protect workers. The Contractor is solely responsible to determine adequacy of the program to protect workers per the applicable Labor Code Section.

12.3 Safety Supervisor

The Contractor shall appoint an employee as safety supervisor who is qualified and authorized to supervise and enforce compliance with the Safety Program. The Contractor shall notify the Construction Manager in writing prior to the commencement of work of the name of the person who will act as the Contractor's safety supervisor and furnish the safety supervisor's resume to the Construction Manager.

The Contractor will, through and with its Safety Supervisor, ensure that all of its employees and its subcontractors of any tier, fully comply with the Project Safety Policies. The Safety Supervisor shall be a full-time employee of the Contractor whose responsibility shall be for supervising compliance with applicable safety requirements on the Site and for developing and implementing safety training classes for all job personnel. The CITY shall have the authority to require removal of the Contractor's Safety Supervisor if the representative is judged to be improperly or inadequately performing the duties; however, this authority shall not in any way affect the Contractor's sole responsibility for performing this work safely, nor shall it impose any obligation upon the CITY to ensure the Contractor performs its work safely.

12.4 Applicable Laws

The Contractor shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss and shall erect and maintain all necessary safeguards for such safety and protection.

12.5 Safety Notices

In connection with the performance of the Work, CONTRACTOR shall provide notices and comply with all Applicable Laws bearing on the safety of persons and property and their protection from damage,

injury or loss. The Contractor shall notify owners of adjacent property and of underground facilities and utility districts when prosecution of the Work may affect them and shall cooperate with them in the protection, removal, relocation, and replacement of their property.

12.6 Reasonable Precautions

CONTRACTOR shall take all precautions and implement all safety measures and requirements imposed by any Applicable Law. Without limiting the generality of the foregoing, CONTRACTOR shall take necessary precautions for the safety of, and shall provide necessary protection to prevent damage, injury or loss to:

- A. Employees on the Work and other persons who may be affected thereby;
- B. The Work and materials and equipment to be incorporated therein, whether in storage on or off the Site under care, custody or control of CONTRACTOR; and
- C. Other property at the Site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of the Construction Work.

12.7 Specific Precautions

12.7.1 Confined Spaces

The Project requires work in confined spaces and requires compliance with CAL/OSHA and Federal OSHA requirements. Confined spaces for the purposes of this article shall be as defined by the Division of Industrial Safety. Work within confined spaces of this Project is subject to the definitions and applicable provisions of Section 5156 et seq., Title 8, Division 1, Chapter 4, Subchapter 7, Group 16, Article 108 of California Code of Regulations, and Title 29 Part 1926 of the Code of Federal Regulations.

In addition, the CITY classifies the following existing facilities as confined space: the interior of pipelines, vaults, manholes, reservoirs and any other such structure or space which is similarly surrounded by confining surfaces as to permit the accumulation of dangerous gases or vapors. The confined spaces are “permit” confined spaces as defined by OSHA and CAL/OSHA and therefore entry is allowed only through compliance with a confined space entry permit program by the Contractor that meets the requirements of 8 C.C.R. Section 5157. While the above-mentioned locations have been identified as permit confined spaces, other permit confined spaces may exist. It shall be the responsibility of the Contractor to identify and classify these confined spaces.

It is anticipated that the Contractor may encounter hazardous conditions within these permit confined spaces which include, but are not limited to the following:

- A. Exposure to hydrogen sulfide, methane, carbon dioxide and other gases and vapors commonly found in municipal sewers which could have or has the potential of having Immediate Danger to Life or Health Conditions (IDLH).
- B. Exposure to atmosphere containing insufficient oxygen to support human life.
- C. Exposure to combustible, flammable and/or explosive atmosphere.
- D. Exposure to sewage which may contain bacteriological, chemical and other constituents harmful to humans.
- E. Work in conditions where engulfment or entrapment may occur.

- F. Work in environments which may be slippery and/or have uneven work surfaces.
- G. Work in structures where workers may trip, slip and/or fall several feet.
- H. Exposure to an oxygen enriched environment.

12.7.2 Excavation Safety

- A. Section 6705. In accordance with the provisions of Section 6705 of the Labor Code, the Contractor shall submit, in advance of excavation of any trench or trenches five feet or more in depth, a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trench or trenches. If such plans vary from the shoring system standards set forth in the Construction Safety Orders of the Division of Industrial Safety in Title 8, Subchapter 4, Article 6, California Code of Regulations, the plans shall be prepared and signed by a registered civil or structural engineer employed by the Contractor, and all costs therefore shall be included in the price named in the Agreement for completion of the Work as set forth in the Contract Documents. Nothing in this article shall be deemed to allow the use of a shoring, bracing, sloping, or other protective system less effective than that required by the Construction Safety Orders. Nothing in this article shall be construed to impose a tort liability on the CITY, the Engineer, the Construction Manager, nor any of their officers, officials, employees, agents, consultants or volunteers. The CITY'S review of the Contractor's excavation plan is only for general conformance to the Construction Safety Orders.

Prior to commencing any excavation, the Contractor shall designate in writing to the Construction Manager the "competent person(s)" with the authority and responsibilities designated in the Construction Safety Orders.

- B. Section 6707. Pursuant to the provisions of California Labor Code Section 6707, each Proposal submitted in response to this RFBP shall contain, as a separate cost item, adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life or limb in trenches and open excavation, exceeding five (5) feet, which shall conform to applicable safety orders. By entering an amount for this cost item below, the Proposer warrants that its action does not convey tort liability to the City, the Engineer, the Construction Manager, the Funding Agencies and their respective officers, employees, agents, and subconsultants.

12.7.1 Equipment Safety Provisions

The completed Work shall include the specified permanent safety devices, such as machinery guards and similar safety items, required by the State and Federal (OSHA) industrial authorities and applicable local and national codes. Further, any features of the Work, including CITY-selected equipment, subject to such safety regulations shall be fabricated, furnished, and installed in compliance with these requirements. All equipment furnished shall be grounded and provided guards and protection as required by safety codes. Where vapor-tight or explosion-proof electrical installation is required by safety codes, this shall be provided. Contractors and manufacturers of equipment shall be held responsible for compliance with the requirements included herein. The Contractor shall notify all equipment suppliers and subcontractors of the provisions of this paragraph.

12.7.1 Use of Explosives

Use of explosives is prohibited, unless approved in advance in writing by CITY. CITY may impose reasonable conditions on the use of explosives.

12.7.1 Loading Capacity

The Contractor shall determine safe loading capacities and shall not overload any structure, building, pipe or other existing facility beyond its safe capacity during construction. In addition to any requirements imposed by law, the Contractor shall shore up, brace, underpin and protect as may be necessary all foundations and other parts of all existing structures, facilities and improvements on the Site or adjacent to the Site which are in any way affected by the Contractor's excavations or other operations connected with the Work. Prior to commencing any work which in any way affects adjoining or adjacent land or buildings thereon, or public utilities, the Contractor shall notify the Construction Manager to discuss responsibilities for properly notifying the owners/occupants of adjacent land and the protective measures taken by the Contractor. Upon request of the Construction Manager, the Contractor shall meet with the recipient of any notice or attend local public meetings as proper public outreach on local impacts caused by completion of the Work should be communicated to any parties that may be affected prior to commencing any work.

12.8 Safety Violations

Should the Contractor fail to correct an unsafe condition, the CITY shall have the right to notify the Contractor through the Construction Manager that an unsafe condition may exist and must be corrected or the Work in question can be stopped in accordance with Article 4.6, CITY's Right to Stop the Work, until the condition is corrected to the satisfaction of the CITY. No extension of time or additional compensation will be granted as a result of any stop order so issued. The notification and suspension of such Work or the failure to provide such notification and suspension by the CITY shall not relieve the Contractor of its sole responsibility and liability for safety and the correction of any unsafe conditions.

The CITY shall have the authority to require the removal from the Project of any worker and the foreman and/or superintendent in responsible charge of the work where safety violations occur. The CITY also delegates such authority to the Construction Manager as well.

12.9 Public Safety and Convenience

The Contractor shall conduct its work so as to ensure the least possible obstruction to traffic and inconvenience to the general public and the residents in the vicinity of the Work and to ensure the protection of persons and property. No road or street shall be closed to the public except with the permission of the Construction Manager and the written approval by the proper governmental authority. Fire hydrants on or adjacent to the Work shall be accessible to firefighting equipment. Temporary provisions shall be made by the Contractor to ensure the use of sidewalks, private and public driveways and proper functioning of gutters, sewer inlets, drainage ditches and culverts, irrigation ditches and natural water courses.

12.10 Emergencies

In an emergency affecting the safety of persons or property, CONTRACTOR shall act, at CONTRACTOR's discretion, to prevent threatened damage, injury or loss. Additional costs or extensions of time caused by CONTRACTOR on account of an emergency not caused by the fault or neglect of CONTRACTOR shall be determined as provided in Article 9.8-Change Orders on Account of Excusable Delay.

12.11 Safeguards

CONTRACTOR shall erect and maintain, as required by existing conditions and performance of the Work, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations and notifying CITY and users of adjacent sites and utilities, and shall comply fully with the requirements of CAL/OSHA.

12.12 Security

CONTRACTOR shall take any and all precautions that may be reasonably necessary to render all portions of the Work, the Site and any adjacent areas affected by the Work secure in all material respects, to decrease the likelihood of accidents, and to avoid vandalism and other contingencies which are liable to delay the Work or give rise to claims or liabilities. CONTRACTOR shall furnish and install all necessary facilities to provide safe means of access to all points where Work is being performed. CONTRACTOR shall take all precautions and measures as may be reasonably necessary to secure the Project at all hours, including evenings, holidays and non-work hours. Such precautions may include provision of security guards.

12.13 Damage to Property at the Site

CONTRACTOR shall be responsible for any and all damage or loss to property at the Site, except to the extent caused by the acts or omissions of CITY or its representatives, agents or employees. The costs and expenses incurred by CONTRACTOR under this Article shall be paid as a Cost of the Work to the extent that such costs and expenses are in excess of or are not covered by required insurance, and to the extent of any deductibles. If such damage or loss is caused by CONTRACTOR, payment of such costs as Cost of the Work shall be limited by the provisions of Article 2.19.4 hereof.

12.14 Damage to Property of Others

- A. CONTRACTOR shall avoid damage, as a result of CONTRACTOR's operations, to existing sidewalks, curbs, streets, alleys, pavements, utilities, adjacent property, the work of Separate Contractors and the property of CITY. CONTRACTOR shall repair any such damage caused by the operations of CONTRACTOR, which costs shall be paid as a Cost of the Work to the extent that such costs and expenses are in excess of or are not covered by required insurance, and to the extent of any deductible.
- B. Failure of CONTRACTOR to Repair Damage. If CONTRACTOR fails to commence the repair of damage to property as set forth in this Article, and/or diligently pursue such repair, then CITY, after ten (10) Days prior written notice to CONTRACTOR (provided CONTRACTOR has not commenced such repair during such ten (10) Day period), may elect to repair such damages with its own forces and to deduct from payments due or to become due to CONTRACTOR amounts paid or incurred by CITY in correcting such damage.

12.15 Remedy of Damage

CONTRACTOR shall promptly remedy damage and loss to property referred to in Article 12.14-Damage to Property of Others (items B and C) caused in whole or in part by CONTRACTOR, or anyone employed by or in control of CONTRACTOR, or any Subcontractor. All costs incurred by CONTRACTOR in connection with its obligations under this Section shall be cost of the Work, but shall not increase the GMP.

ARTICLE 13 - DISPUTES

13.1 Disputes between CITY and CONTRACTOR

In the event of any dispute arising between CITY and CONTRACTOR regarding any part of the Contract or the Contract Documents, or the Parties' obligations or performance thereunder, and subject to any claims presentation requirements set forth in the Contract Documents, either Party may institute the dispute resolution procedures set forth herein. The Parties shall continue performance of their respective obligation hereunder notwithstanding the existence of a dispute.

13.2 Dispute Resolution Procedures

CONTRACTOR must submit all claims as defined in and in accordance with the claim resolution process set forth in Section 9204 of the Public Contract Code. Each such claim must be sent to CITY by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the claim. All claims must be received prior to acceptance of the Work and will be handled in accordance with the procedures set forth in Section 9204 of the Public Contract Code.

ARTICLE 14 - EVENTS OF DEFAULT AND REMEDIES; TERMINATION

14.1 CONTRACTOR Events of Default

The following shall be considered "CONTRACTOR Events of Default":

- A. If CONTRACTOR fails or neglects to carry out the Work in accordance with the provisions of the Contract Documents, and fails, after seven (7) Days' notice from CITY, to commence a cure to correct such failure or neglect and thereafter diligently pursue such cure to completion;
- B. If CONTRACTOR materially breaches this Agreement and fails, after seven (7) Days' notice from CITY, to commence a cure to correct such breach and thereafter diligently pursue such cure to completion (such breach to include, but not be limited to, failure to make payment to Subcontractors for materials or labor in accordance with the respective agreements between CONTRACTOR and the Subcontractors or violation of Applicable Laws);
- C. If a custodian, trustee or receiver is appointed for CONTRACTOR, or if CONTRACTOR becomes insolvent or bankrupt, is generally not paying its debts as they become due or makes an assignment for the benefit of creditors, or CONTRACTOR causes or suffers an order for relief to be entered with respect to it under applicable bankruptcy law or applies for or consents to the appointment of a custodian, trustee or receiver for CONTRACTOR, or bankruptcy, reorganization, arrangement or insolvency proceedings, or other proceedings for relief under any bankruptcy or similar law or laws for the relief of debtors, are instituted by or against CONTRACTOR, and in any of the foregoing cases such action is not discharged or terminated within sixty (60) Days of its institution.

14.2 Remedies of CITY upon a CONTRACTOR Event of Default.

14.2.1 Termination of Contract

Upon the occurrence of a CONTRACTOR Event of Default, CITY shall have the right to terminate this Contract upon an additional seven (7) Days written notice to CONTRACTOR, provided that CONTRACTOR has not commenced a cure within such seven (7) Day period.

14.2.2 Without prejudice to any other rights or remedies of CITY, CITY may:

- A. Take possession of the Site and of all materials, equipment, tools and construction equipment thereon owned by CONTRACTOR;
- B. Accept assignment of Subcontracts; and
- C. Finish the work by whatever reasonable method CITY may deem expedient.
- D. When CITY terminates the Contract as aforesaid, CONTRACTOR shall not be entitled to receive further payment until the Work is finished. If the unpaid balance of the GMP exceeds costs incurred in finishing the Work, such excess shall be paid to CONTRACTOR, up to the amount due CONTRACTOR for work performed prior to termination. If such costs exceed the unpaid balance of the GMP, CONTRACTOR shall pay the difference to CITY.

14.3 Recourse to Payment and Performance Bonds

Upon the occurrence of a CONTRACTOR Event of Default and termination of this Contract by CITY, CITY may call upon the Surety to perform its/their obligations under the Payment and Performance Bonds, if applicable.

14.4 Remedies not Exclusive

Except as otherwise provided in this Agreement, no remedy hereunder is intended to be exclusive of any other remedy, but each and every such remedy shall be cumulative and shall be in addition to any other available legal or equitable remedy, existing now or hereafter. No delay or omission to exercise any right or power accruing shall impair any such right or power nor shall it be construed to be a waiver of any Event of Default or acquiescence therein, and every such right and power may be exercised from time to time as often as may be deemed expedient.

14.5 Termination or Suspension for Convenience.

14.5.1 Termination for Convenience.

CITY may, without cause, terminate this Contract, or any portion of Work to be performed hereunder at any time by a notice in writing from CITY to CONTRACTOR for CITY'S convenience. In such case, CITY shall pay to CONTRACTOR all funds due CONTRACTOR for work performed up to the date of termination, plus all demobilization and close-out costs, including, but not limited to, any amounts payable to Subcontractors for early termination, plus reasonable overhead and profit on Work performed. All funds due hereunder, including unpaid Retention, shall be released within thirty (30) Days of termination of the Contract for convenience, subject to any withholding required or authorized by any Applicable Law. In no event shall such amounts owed to CONTRACTOR exceed the GMP.

14.5.2 Suspension for Convenience

CITY may, without cause, order CONTRACTOR in writing to suspend, delay or interrupt the Work in whole or in part for such period of time as CITY may determine. An adjustment shall be made for

increases in the cost of performance of the Work, including Fee on the increased cost of performance, caused by the suspension, delay or interruption, in accordance with the Change Order provisions of this Contract. No adjustment shall be made to the extent (1) the performance is, was or would have been so suspended, delayed or interrupted by another cause for which CONTRACTOR is responsible or (2) that an equitable adjustment to the GMP and/or Schedule is made or denied under another provision of this Contract. Adjustments made in the cost of performance may have a mutually agreed fixed or percentage Fee.

ARTICLE 15 - MISCELLANEOUS PROVISIONS

15.1 Governing Law

This Contract shall be construed with and governed by the laws of the State of California.

15.2 Successors and Assigns

CITY and CONTRACTOR respectively bind themselves, their partners, shareholders, successors, assigns and legal representatives to the other Party hereto and to shareholders, successors, assigns and legal representatives of such other Party in respect to covenants, agreements and obligations contained in the Contract Documents. Neither Party shall assign the Contract without the prior written consent of the other.

15.3 Notice

Any notices to Parties required by this Agreement shall be delivered or mailed, U.S. first class, postage prepaid, addressed as follows:

If to CITY:	If to CONTRACTOR:
Janice Gainey City of Roseville 2005 Hilltop Circle Roseville, CA 95747	Dean Bailey Auburn Constructors, LLC 730 W. Stadium Lane Sacramento, CA 95834

Address for Notice may be changed by Notice to the other Party.

15.4 Modifications

No Modifications or Change Orders shall be valid unless in writing and signed by CITY and CONTRACTOR.

15.5 Interpretation

Any and all headings of this Agreement are for convenience of reference only and do not modify, define or limit the provisions thereof. Words of any gender shall be deemed and construed to include correlative words of the other gender. Words importing the singular number shall include the plural number and vice versa, unless the context shall otherwise be deemed to include all supplements and/or amendments to any such exhibits or documents entered into in accordance with the terms hereof and thereof. All references to any person or entity shall be deemed to include any person or entity succeeding to the rights, duties and

obligations of such person or entity in accordance with the terms of this Agreement. Where reference is made in this Agreement to another Contract Document, the reference refers to that provision as amended or supplemented by the other provisions of the Contract Documents. In the event of any conflict between or among the Contract Documents, the provisions of this Agreement shall govern.

15.6 Severability

If any provision of this Agreement is held to be inoperative or unenforceable as applied in any particular case because it conflicts with any other provision hereof or any constitution, statute, ordinance, rule of law or public policy, or for any other reason, such holding shall not have the effect of rendering the provision in question inoperative or unenforceable in any other case, or of rendering any other provision herein contained inoperative or unenforceable to any extent whatever. The invalidity of any one or more phrases, sentences, clauses or sections contained in this Agreement shall not affect the remaining portions of this Agreement or any part hereof, and they shall otherwise remain in full force and effect.

15.7 Whole Agreement

This Agreement, the Exhibits hereto and the Contract Documents, specifications and Drawings shall constitute the entire agreement between the Parties, and no inducements, considerations, promises or other references shall be implied in this Agreement that are not expressly addressed herein

15.8 Accounting Records

CONTRACTOR shall keep full and detailed accounts and exercise such controls as may be necessary for proper financial management under this Agreement; the accounting and control systems shall be reasonably satisfactory to CITY. CITY and CITY'S accountants shall be afforded access to CONTRACTOR's records, books, correspondence, instructions, drawings, receipts, Subcontracts, vouchers, memoranda and other data relating to this Agreement, and CONTRACTOR shall preserve these for a period of three (3) years after final payment, or for such longer period as may be required by law.

15.9 No Waiver

Neither the inspection by CITY or its agents, nor any order or certificate for payment of money, nor payment for, nor acceptance of the whole or any part of the work by CITY, nor any extensions of time, nor any position taken by CITY or its agents shall operate as a waiver of any provision of this Agreement or of any power herein reserved to CITY or any right to damages herein provided, nor shall any waiver of any breach of this Agreement be held to be a waiver of any other or subsequent breach.

15.10 CONTRACTOR Shall Assume Risks

Until the Final Completion or acceptance by CITY of all Work under this Contract, the Work shall be under CONTRACTOR's responsible care and charge. CONTRACTOR shall rebuild, repair, restore and make good all injuries, damages, corrections, and repairs occasioned or rendered necessary by accidental causes of any nature, to all or any portions of the Work, except as otherwise stipulated.

15.11 General Liability of CONTRACTOR

Except as otherwise herein expressly stipulated, CONTRACTOR shall perform all the work and furnish all the labor, materials, tools power and light, and appliances, necessary or proper for performing and completing the Work herein required in the manner within the time herein specified. The mention of any specific duty or liability of CONTRACTOR shall not be construed as a limitation or restriction of any

general liability or duty of CONTRACTOR and, any reference to any specific duty or liability shall be construed to be the purpose of explanation.

15.12 Attorney's Fees and Venue

If either Party commences any legal action against the other Party arising out of this Agreement or the performance thereof, the prevailing Party shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorney's fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. To the extent permitted by applicable law, each Party waives any defense that it may have based on lack of *in personam* jurisdiction or *forum nonconveniens*.

15.13 Third Party Beneficiaries

There are no third party beneficiaries to this Agreement.

IN WITNESS WHEREOF, the CITY of Roseville, a municipal corporation, has authorized the execution of this Agreement in duplicate by its CITY Manager and attested to by its CITY Clerk under the authority of Resolution No. _____, adopted by the Council of the CITY of Roseville on the ____ day of _____, 20____, and CONTRACTOR has caused this Agreement to be executed.

CITY OF ROSEVILLE,
a municipal corporation:
BY: _____
DOMINICK CASEY
CITY Manager
ATTEST:

BY: _____
SONIA OROZCO
CITY Clerk

APPROVED AS TO FORM:

BY: _____

ROBERT R. SCHMITT

CITY Attorney

APPROVED AS TO SUBSTANCE

By: Richard D. Plecker
Richard D. Plecker
Director Of Environmental Utilities

Auburn Constructors, LLC
a CA Limited Liability Company :
BY: J. Dean Bailey
its: President
and
BY: John West
its: Vice President

ARTICLE 16 - LIST OF EXHIBITS

Exhibit A	Contractor's Statement of Pre-Qualification [Not Used]
Exhibit B	Scope of Work from Contractor's Technical Proposal dated January 30, 2020
Exhibit C	Guaranteed Maximum Price, Cost of Work, and Fee
Exhibit D	Construction Allowance Items and Amounts
Exhibit E	Hazardous Materials
Exhibit F	In Lieu of Securities Escrow Agreement
Exhibit G	Bond Forms; Performance, Labor & Materials, and Warranty Bonds Note: Warranty Bond requirement may be waived at the option of CITY.
Exhibit H	Completion Times and Liquidated Damages

EXHIBIT A - CONTRACTOR'S STATEMENTS OF PRE-QUALIFICATION (SOPQ)

(NOT USED)

END OF EXHIBIT A

EXHIBIT B - SCOPE OF WORK From CONTRACTOR'S TECHNICAL PROPOSAL

The following sections from Contractor's Part 1-Technical Proposal are included here as Scope of Work

Tab A – Project Understanding

Tab B – Project Approach and preliminary schedule

Tab C – Project Cost Reduction Opportunities

Tab D – Contractor's Minimum Qualifications and Certifications (Including Attachments 1, 2, 3, 4)

Tab E – Project Team Qualifications and Experience (Except Attachments 5 and 6)

Tab F – Subcontractor List and Assurance of Designated Project Team (Including Attachments 7 and 8)

Tab H – Safety Program and Record (Includes only Attachment 9 for Auburn Constructors, Gateway Pacific, and DN Tanks. Full Safety Program submitted separately)

Tab I – Quality Control Program (Full Quality Control Program submitted separately)

Tab J – Other Required Statements/Documents (Includes Attachment 10, 11, 13, 14, 19)

Tab K – Exceptions

Tab L – Appendix to Part 1 (Includes Signed Addenda 1, 2, and 3 Only)

END OF EXHIBIT B



WEST SIDE TANKS AND PUMP STATION PROJECT

SCOPE OF WORK

Auburn Constructors, LLC

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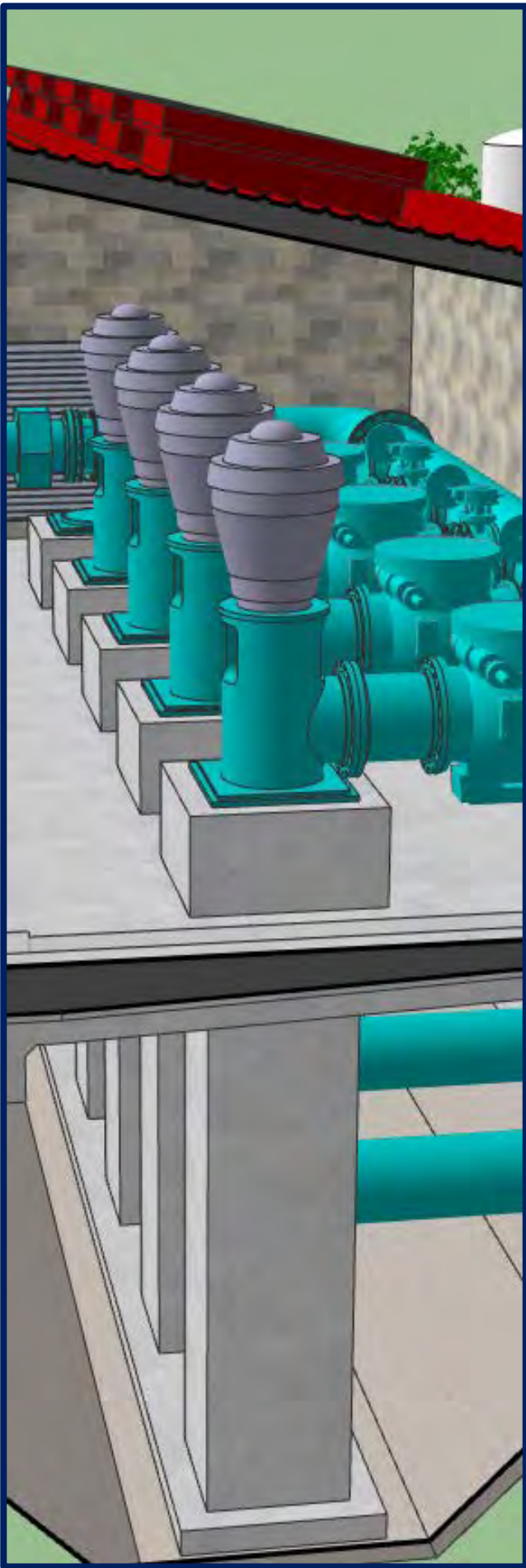
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TAB A



PROJECT UNDERSTANDING

PROJECT UNDERSTANDING

INTRODUCTION

The City of Roseville (City) has issued a Request for Proposal (RFP) for the West Side Tanks and Pump Station Project. For this capital improvement project, the City intends to utilize the Design-Assist Guaranteed Maximum Price (GMP) with shared savings contract delivery method. This method will effectively make the selected contractor a vital member of the project team, alongside the City and Water Works Engineers - who has been retained for engineering, design, and construction management services.

The Design-Assist GMP method benefits the City immensely as it allows for a qualifications-based bidding approach and provides for early contractor engagement and collaboration. Through collaboration, this method fosters cost appropriate approaches to the work and promotes constructability opportunities. Through this proposal, we intend to show that AUBURN is the best qualified, most prepared, and highly collaborative candidate to join the Design-Assist Team.

PROJECT OVERVIEW

The West Side Tanks and Pump Station Project has been in process since 2005 and was conceived to provide potable water storage and pumping capacity to new developments on the west side of the City's service area. The project was shelved for years due to the economic recession of 2008 but is now ready for construction.



Figure 1: View of a pre-stressed concrete water storage tank, with encased pump cans in the foreground, under construction at the West Hills Water Treatment Plant in Hollister, CA. Auburn Constructors was the prime contractor on this \$27.8M contract.

The West Side Tanks and Pump Station Project is comprised of the following major items of work:

1. Water Storage Tanks: Additional potable water storage is accomplished by the construction of two 6.0 MG pre-stressed concrete water storage tanks. Tank footings will require over excavation and installation of mechanical stabilized earth (MSE) foundation system. Foundation work will also involve the installation of a leak detection system with PVC liner and perforated piping.
2. Booster Pump Station: Additional pumping capacity is achieved through the installation of four vertical turbine booster pumps, which are housed inside a CMU block building along with a chemical distribution system and associated electrical equipment. Outside features include architectural canopies, valve vault for pump isolation valves, and a hydropneumatic tank to help regulate system pressure.

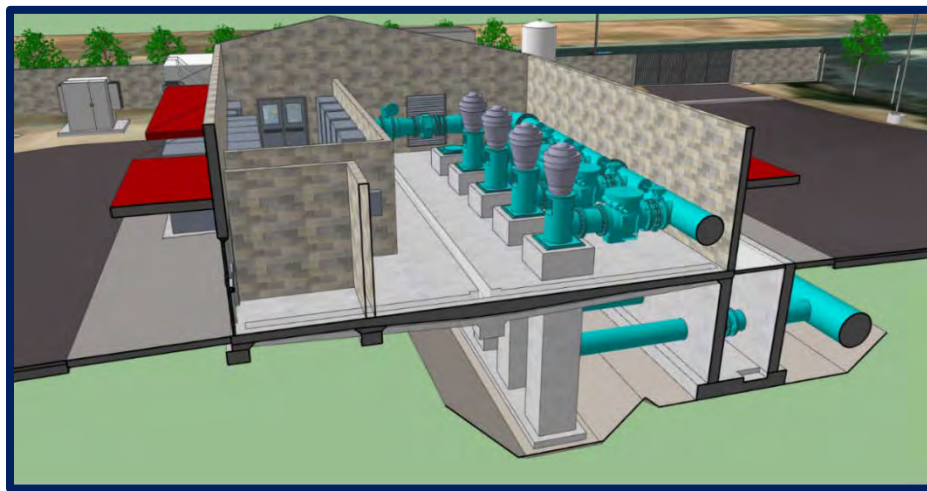


Figure 2: Isometric section view of the booster pump station building. AUBURN utilizes 3D modeling techniques to collaborate with the project team to refine work plans, discover conflicts before they happen, and provide better perspective on upcoming work. AUBURN personnel will bring this same competency to the Design-Assist team.

3. Tank Valve Vault: The City has made it clear that they are not in favor of direct buried valves on the site. A cast-in-place concrete valve vault will be constructed to house valves on the suction and discharge lines running between the tanks and booster pump station.
4. Electrical: The site will feature a standby diesel generator, fuel tank, and load bank. The pump station will feature variable frequency drives and reduced voltage soft starters, along with other associated electrical, control, and security equipment. Installation of electric service to site including transformer will be required.
5. Instrumentation and Controls: Installation of hardware, instrumentation, and I&C infrastructure will be by the Contractor while programming will be provided by the City.
6. Miscellaneous Site Work: Notable sitework items include sewer, storm drain, and potable water tie-ins; below and above ground yard piping and electrical; design and install of cathodic protection system; site paving and landscaping; construction of lined bioretention basins; and CMU block wall and chain link fence installation.

7. Project Management and Administration: Not only will the Contractor act in a project management role, maintaining schedule and contract correspondence, but they will also participate in a cooperative partnership with the City and Engineer to collaborate on major project challenges, risk mitigation, and constructability opportunities. The Contractor will contribute in up to eight Final Design Coordination Meetings with the Design-Assist Team.

AUBURN'S APPROACH

AUBURN's goal is to deliver the West Side Tanks and Booster Pump Station project to the City before its expected completion date for a lower cost than budgeted. Throughout the project, our experienced managers will collaborate with the City, Engineer, Subcontractors and Suppliers to blend form and function with budget and time. We pay attention to every detail in order to deliver a quality project as cost-effectively as possible. Likewise, our highly skilled field staff will self-perform installation of underground and aboveground utilities, structural concrete, site electrical, and mechanical equipment.

AUBURN will partner with Gateway Pacific Contractors (GATEWAY) to construct the two pre-stressed concrete storage tanks. GATEWAY is locally owned and operated and employs one of the most capable self-performing capacities of any general contractor in California who specializes in tank construction. AUBURN and GATEWAY have a history of successful partnerships on projects, several of which were performed directly for the City of Roseville. Three major advantages that the AUBURN-GATEWAY partnership will bring to the West Side Tanks and Booster Pump Station project include the following:

1. Both AUBURN and GATEWAY are locally owned and operated with 100% of our workforce living in the Sacramento region. Our personnel are invested in the local community and economy. We are readily available for this project, located in our backyard.
2. AUBURN maintains an in-house Electrical Division, which is an integral member of the contracting team for all municipal projects we pursue. This not only helps us to keep our costs low, but also reduces coordination and scheduling issues.
3. GATEWAY has successfully constructed the last five (5) prestressed tanks that were built for the City of Roseville. We hope to build upon this history of successful partnering by serving the City once again to construct the West Side Tanks.

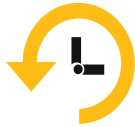
NAME	DESCRIPTION	FINAL CONTRACT AMOUNT	ADDRESS	SUPT.	START	END
Roseville Water Treatment Plant	4MG reservoir with interior walls	2,791,597	9595 Barton Road Granite Bay, CA 95746	Gary Heim	August-90	November-91
10MG Water Storage Tank	Construct 10MG circular, prestressed concrete tank	4,451,281	Guilford Way @ Scarborough Dr. Roseville, CA 95678	Gary Heim	June-98	April-00
Water Reservoir	Construction of a new 6MG filter effluent reservoir	6,193,045	9595 Barton Road Granite Bay, CA 95746	Gene Gregory	June-03	April-05
Stoneridge Joint Use Water Storage Facility	Construct a 3MG prestressed concrete reservoir	4,196,375	3332 Halverson Drive Roseville, CA 95661	Gary Heim	May-08	July-09
Northeast Water Storage Reservoir Replacement	Replace 6MG concrete reservoir with 7.2MG prestressed concrete reservoir	5,207,198	Guilford Way @ Scarborough Dr. Roseville, CA 95678	Gary Heim	October-08	June-10

Figure 3: Details of the last five (5) prestressed concrete tanks built for the City by GATEWAY and DN TANKS. One of the same superintendents listed here is our proposed Tank Construction Superintendent.

ACHIEVING THE CITY'S GOALS



Best Value - A detailed GMP cost proposal has been developed for this Project. Along with an accurate budget, AUBURN will provide weekly updates to ensure opportunities are recognized, and any problems that need to be remedied are done so in a timely manner. This open book approach will give the City confidence that every dollar is being allocated efficiently.



Schedule - A detailed project schedule has been developed for this project which highlights the level of attention we put into every project we construct. In addition to all critical items being recognized at the onset, AUBURN will provide monthly progress reports summarizing activities performed during the reporting period, identify activities planned for the next reporting period, and identify performance and expenditures. AUBURN has never been assessed liquidated damages, which we attribute to our ability to produce and maintain excellent project schedules.



Quality - Long after construction is completed, this project will be highly visible to the public and provide a critical service to the surrounding community. AUBURN recognizes the great importance of this project to the City and will provide our distinguished attention to detail that we bring to every project we perform. AUBURN has an excellent track record of doing work right the first time and going the extra mile to ensure that all parties are satisfied with both function and aesthetics.

IDENTIFYING CHALLENGES

Based on AUBURN's thorough proposal preparation, we have identified the following aspects of work as particularly challenging comparatively in the overall scope.

CHALLENGE #1: Storm Drain Tie-In on Westpark Drive

The 30" storm drain tie-in on Westpark Drive will be inherently difficult as it requires us to perform a large diameter tie-in on an active street. This will necessitate continuous traffic control and a potential lane closure for multiple days as the new pipe is installed and the saddle manhole is cast in place. Some mitigation measures for this challenge are as follows:

- Clear communication with the City and other affected parties as to our tie-in schedule and durations.
- Prepare a detailed traffic control plan well in advance with review and buyoff from affected parties.
- Make consideration for working overtime hours on this task until in-traffic work is complete.

CHALLENGE #2: Construction Site Access

The current Erosion Control Plan shows temporary construction entrances being located on the north and east sides of the project in the same locations as the permanent

entrances. The north entrance is inconveniently located behind a security access gate for the Pleasant Grove Treatment Plant. Because work will be occurring simultaneously on the tanks and the pump station area, there will be considerable access demands between Auburn's forces and that of our tank subcontractor. We feel that two construction entrances will be required on the east side of the project to meet this demand. Ideally, the north access point could be moved to the location shown in Figure 3 below. This entrance would be conveniently located for the tank builder's use and the area already requires demolition in order to install the 30" storm drain.



Figure 3: Overview of 30" Storm Drain tie-in on Westpark Drive and possible access points to the site.

CHALLENGE #3: Coordination with Power Utility

Coordination with an outside agency to provide permanent power to a construction site is a recurring challenge on projects and if not properly coordinated, can become a major schedule driver or delay. Although we are not dealing with a larger organization like PG&E, we believe that coordination with Roseville Electric to provide permanent power to the site could present some difficulties making it worthy to mention in this section. Some mitigation measures for this challenge include:

- Early coordination and communication with Roseville Electric regarding the West Side Tanks and Booster Pump Station Project.
- Finalization of utility design.
- Frequent communication with Roseville Electric throughout the project to ensure that our scheduling and inspection requirements are identified and understood.

CHALLENGE #4: Backfill of Booster Pump Station

GATEWAY plans to construct both tanks concurrently with a three-month delayed start of Tank #1 after proceeding with Tank #2. As such, our preliminary schedule favors AUBURN's work progressing from west to east across the site in order to provide the best possible access for our tank subcontractor. Once tank over-excavation is completed, our forces can install underground utilities for the tanks and advance to the tank valve vault, triggering the start MSE foundation installation. As the tank work progresses from Tank

#2 to Tank #1, our forces will have advanced the site underground utilities to the Booster Pump Station. We will then begin work on the pump cans and the pump station valve vault while work on both tanks progresses.

Once the deeper aspects of the Booster Pump Station are completed, the pump station area will require backfilling to slab subgrade. During backfill of the pump station area, access will become congested between the earthwork subcontractor and the tank builder. This could possibly create a situation where AUBURN's forces have a brief delay in the work until backfill is completed. Some mitigation measures for this challenge include:

- Collaborating closely with our subcontractors when refining our CPM Baseline schedule and work plan to mitigate potential conflicts;
- Reviewing alternative sequencing of the work to ensure the best possible timeline.

CHALLENGE #5: Tank and Pipeline Disinfection and Flushing

Disinfection and flushing of the potable water tanks and pipelines will propose a challenge due to the large-scale infrastructure and sheer volume of water that will be required to make this possible. Discharging this high volume of flushing water and dechlorinated disinfection water to the City's system will require coordination with City utilities. We will prepare a highly detailed Disinfection Plan that draws heavily from AUBURN's and GATEWAY's experience in disinfecting water treatment plants, reservoirs, and pump stations.

CHALLENGE #6: Concrete Delivery

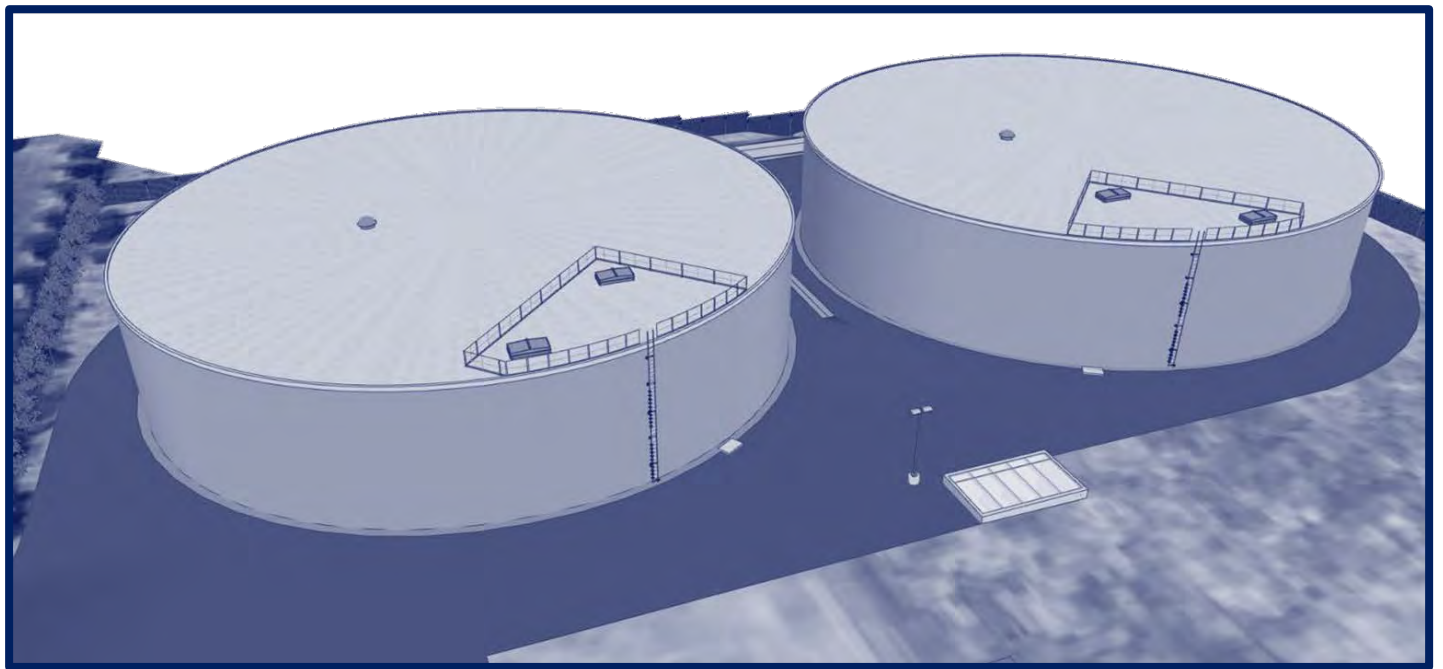
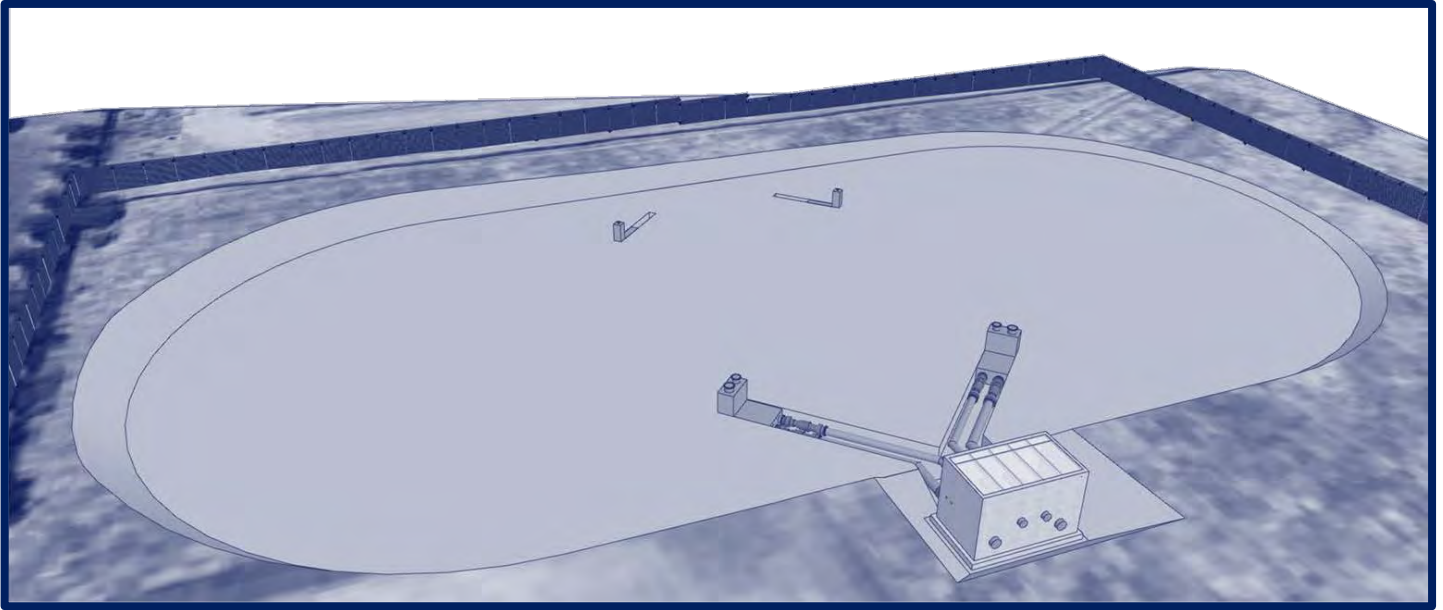
There is a total of two (possibly three) local concrete batch plants that will be able to service this project's demand. Due to the current overwhelming demand, these plants are requiring pours to be scheduled as far out as one month in advance, with delays of up to a week if contractors are unable to meet their originally scheduled pour date. GATEWAY is currently experiencing this challenge as they construct a 6MG prestressed concrete tank in Lincoln, California, to be completed in June of this year. To mitigate this challenge, AUBURN will ensure that lookahead schedules are accurate and to-date and will keep open communication with the plant as work progresses.

CHALLENGE #7: West Park High School Opening, Traffic, and Public Safety

The Roseville High School District has put out a notice stating that the West Park High School, located opposite the project site, will be opening for its first school year in August 2020. Though main access to the school is not off Westpark Dr., this still has the potential to increase traffic, congestion, and public attention at the project.

The tank foundation and structures alone require over 18,000 CY of aggregate base and drain rock and 6,000 CY of ready-mix concrete. Truck traffic to and from the site will be significant. AUBURN will work diligently with our suppliers to develop an efficient truck routing plan and will provide clear communication, access, signage, and traffic control measures when interfacing with the public right of way.

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TAB B



PROJECT APPROACH

PROJECT APPROACH

FOUNDATIONAL ELEMENTS

The following key elements form the foundation of our project approach:

1. **CONFIDENCE:** The City will have the full commitment and involvement of our top-level management throughout the life of the project. This commitment ensures that our best-qualified project team is selected, assembled, and available at the start of the project with the proper focus, organizational backing, and resources to “hit the ground running”.
2. **EXPERTISE:** AUBURN employs a team of proven client-focused construction professionals with current relevant project experience and intimate knowledge of the local construction market; who work well together and possess the mature interpersonal skill sets necessary to work collaboratively as a team; and who are committed to the success of the project.
3. **THE RIGHT PEOPLE:** We have assembled a team of qualified subcontractors, sub-consultants, and vendors, who are quality-focused with the proven expertise and depth of resources to handle a project of this size and complexity. It is worth noting that both AUBURN’s and GATEWAY’s management and skilled craftspeople live locally and have deep roots in the community. Our people are motivated to realize this project’s success.
4. **APPROPRIATE MEANS:** We utilize the most appropriate project scheduling, management and communication tools to provide accurate and real time information for effective decision making, including Primavera P6, ProCore, etc. The key to a successfully run project is not the software, it is the people using the software. We will use the appropriate tools to make this project a success and keep everyone informed and comfortable that our collective goals are being accomplished.
5. **OPEN COMMUNICATION:** Our team ensures effective communications and teamwork at all levels of the project with all stakeholders through a collaborative team approach, partnering with the City Engineering and Operations staff, and Water Works Engineers, to make the project a success for all.
6. **DEPTH OF RESOURCES:** AUBURN has the financial strength and Company-wide depth of resources to ensure the necessary manpower, materials, end equipment are employed on the project when needed.
7. **PREPLANNING:** We will establish a “Critical Path” submittal list at the project onset, working with vendors, the City and Engineer to expedite equipment procurement to ensure timeline objectives are met.

MAJOR PROJECT COMPONENTS

AUBURN has generated a preliminary CPM schedule which identifies the following major project components, the critical path drivers, and our proposed methodologies to accomplish the required tasks within the desired timeline:

1. Pre-Planning and Design Assistance
2. Site Development
3. Foundation Mitigation and Tank Construction
4. Tank Valve Vault
5. Booster Pump Station
6. Electrical, Instrumentation, and Control
7. Sitework Concrete, Paving, and Landscaping
8. Project Startup and Closeout

ITEM #1: PRE-PLANNING AND DESIGN ASSISTANCE

Pre-Planning

Once NTP is issued, pre-planning activities will continue in earnest, which will involve issuing all subcontracts and purchase orders for the project, delivering submittals for long-lead time and critical path items, and performing the required pot holing to confirm the extent of all existing utilities within the project limits. Some of the critical path submittals we will pursue initially include:

- MSE Foundation System
- Tank Liner and Underdrain
- Prestressed Concrete Tank
- Underground Pipe, Valves, Fittings
- Precast manholes and vaults
- Vertical Turbine Pumps and Cans
- Major electrical and instrumentation equipment

Design-Assistance

As a Design-Assist Team member, AUBURN, GATEWAY and their subcontractors will bring their extensive background and expertise to the table alongside the City and Water Works Engineers. Upon NTP, we will conduct a constructability review of the final design, providing our combined insight on construction means and methods to offer potential cost and schedule saving ideas that provide an overall benefit to the project. We will also provide value engineering concepts that seek to improve the overall quality of the project. Some of the concepts we have extrapolated to date are presented in Tab C of this scope of work. These concepts will be refined as we participate in up to eight (8) Final Design Coordination Meetings with the Design-Assist Team.

Item #1 Key Staff:

- Dean Bailey (Project Sponsor) – Oversee all contractual matters
- Luke Smith (Project Manager) – Overall project planning and coordination responsibility, critical early submittals, and design assistance.
- Kevin Couper (Principal-in-Charge) – Resource allocation and planning.
- Darin Van Oosterhout (CPM Scheduler) – Baseline schedule creation and updates.
- Andy Rusk (Electrical PM) – Coordination with Roseville Electric, electrical sequencing and installation.
- Gateway Pacific (Tank Builder) – Tank submittals preparation and design assistance.

ITEM #2: SITE DEVELOPMENT

AUBURN will begin initial site development by establishing our access points to the site, installing temporary security fence, mobilizing facilities and equipment and installing Best Management Practices (BMPs) as identified in our SWPPP plan. After these items have been addressed, clearing and grubbing of the site can proceed followed by earthwork activities.

Critical path of the project schedule runs through construction of the two (2) 6MG storage tanks. As such, it will be our priority after mobilization to perform over-excavation for the tanks' foundation and installation of under-tank utilities to make way for our tank builder. The tank excavation will generate over 15,000 CY of soil that will be used for fill operations on the remainder of the site. Our earthwork subcontractor will backfill the site concurrently while over-excavation is taking place to minimize any double handling of material. Though some of this material will have to be placed under the pump station, we will intentionally try to leave the footprint of the booster pump station low as we will have to excavate back through this material to install the pump cans and valve vault.

Once tank over-excavation is complete and prior to our tank builder beginning MSE installation, our underground crew will install the following underground utilities: the 8" tank drains, the 24" tank fill lines, the 30" tank discharge lines, the duct bank running between the two tanks, and the 30" storm drain located on the south side of the tanks. MSE foundation work can begin once these features are in place.

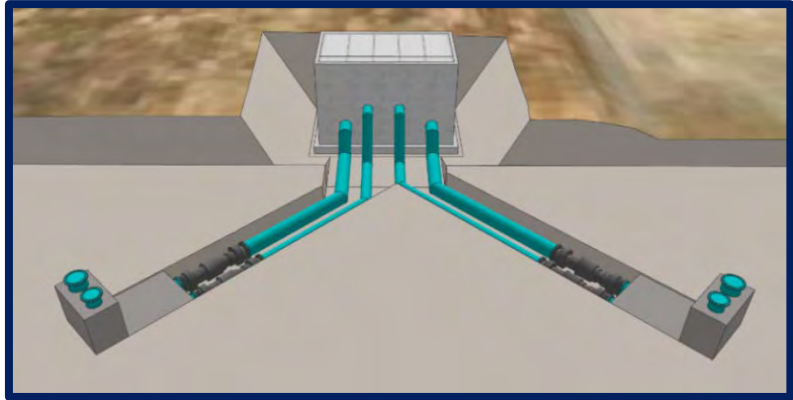


Figure 4: Overview of the 24" and 30" tank fill and discharge lines.

As MSE work begins, our underground crew will advance the 30" and 42" PW lines and electrical from the tank valve vault to the booster pump station. At the pump station, schedule will follow installation of the pump cans and valve vault. Once these features are installed and backfilled, our underground crew will complete installation of the PW pipelines (stopping short of the PW tie-in), the 6" sanitary sewer (SS) line, and underslab electrical. Other notable underground utilities on the site include the 8" storm drain line on the north end of the site, which is not on the critical path of the schedule, and the leak detection pipelines, which will be discussed further in the following section.

It should be noted that Specification Section 01110, Paragraph 1.5.B.1 states that work on the future Operations Building will be under a separate contract following completion of this project. However, Plan Sheet #54, Note 3 states that work on the Ops Building will commence during construction of the West Side Tanks, in accordance with "Project Milestone 2". We will need to confirm the City's intended timeline with this location during the Design Finalization stage so that we are able to build this into our work plan. It will also be critical that the Design-Assist Team finalizes the details for the cathodic protection system so these elements can be installed as the pipe is being installed.

Item #2 Key Staff:

- **Luke Smith (Project Manager)** – Overall project planning, subcontractor coordination, underground utility coordination
- **Don Pearson (Electrical Superintendent)** – Underground electrical coordination
- **Earthwork Subcontractor** – Clearing and grubbing, over-excavation of tank foundation, backfill operations across site

ITEM #3: FOUNDATION MITIGATION & TANK CONSTRUCTION

Our tank builder, GATEWAY, will mobilize and begin work on the MSE foundation once tank underslab utilities are installed. Our schedule shows it will take roughly 16 months to complete work on both tanks, with 2 months committed to MSE installation and the remaining 14 months committed to tank construction, wrapping, and disinfection. Work will proceed at Tank #1 two to three months after beginning work on Tank #2, at which point construction will progress simultaneously on both tanks. This delayed start is to account for the Specialty Tank Pre-stressor's (DN Tanks) work that will occur on the tail end of tank construction. DN Tanks will mobilize one strand wrapping and automated shotcrete machine to the site, which will wrap, prestress, and shotcrete each tank sequentially. This process will take roughly two to three months to finish Tank #2 and relocate the machine to Tank #1.

It should be noted that GATEWAY plans to install the tank slabs and roofs in two pours, as is allowed by the contract structural drawings. This will effectively create a construction joint through the slab and roof of each tank.

GATEWAY will install the 30-mil liner underneath the tanks as they construct the MSE foundation. Once tank construction is completed, AUBURN will backfill the tanks and install the tank leak detection piping and drain rock, bringing up the liner as we backfill and wrapping it back to the tanks for attachment. Leak detection piping will be routed back to the tank valve vault, while the upper drain piping will be routed to the nearby retention basin to the south.



Figure 5: View of one of DN Tanks' pre-stressing machines wrapping a concrete tank.

Final cleaning and disinfection of the tanks will be performed by GATEWAY utilizing AWWA C652, Method 2, as required in Specification Section 03314. Tank disinfection will take place after or in-conjunction with pipeline disinfection. A certified backflow prevention device will be installed at the PW tie-in location so that water can be sent from the City's system through the PW lines to the tanks. Disinfection will, most likely, be performed one tank at a time and utilize the same 6 MG of water for both tanks. Upon passing bacteriological testing, this water will be ready for distribution.

Item #3 Key Staff:

- Luke Smith (Project Manager) – Overall planning, subcontractor coordination
- Gateway Pacific (Tank Builder) – Tank foundation, PVC liner, tank construction, flushing and disinfection
- DN Tanks (Tank Pre-stressor) – Tank wrapping, pre-stressing, & shotcrete

ITEM #4: TANK VALVE VAULT

Because the critical path flows through construction of the storage tanks, there is considerable float for the other structural concrete elements on the site. For example, the Tank Valve Vault is shown with roughly 440 working days (WD's) of float. However, in an effort to maximize efficiency and limit the number of activities requiring completion on the back end of tank construction, AUBURN concrete crews will begin work on the Tank Valve Vault at the same time as our mechanical crews are installing under-tank utilities. Consequently, our concrete and mechanical crews will have completed the valve vault and moved on to the Booster Pump Station area by the time that GATEWAY begins slab work on Tank #1. This will help to limit congestion around the tanks. Concrete construction of the tank valve vault will take an estimated 60 WD's.

Item #4 Key Staff:

- Luke Smith (Project Manager) – Overall project planning and coordination, site supervision of AUBURN concrete and mechanical crews
- Don Pearson (Electrical Superintendent) – Electrical coordination

ITEM #5: BOOSTER PUMP STATION

Our concrete crews will move from the Tank Valve Vault to the Booster Pump Station to install the vertical turbine pump cans and encasement, followed by the pump station valve vault. Once these deeper features have been completed, the pump station footprint will be backfilled to install the underslab piping and electrical, followed by the pump station grade beams and slab on grade. Concrete installation at the Booster Pump Station will take roughly 130 WD's.

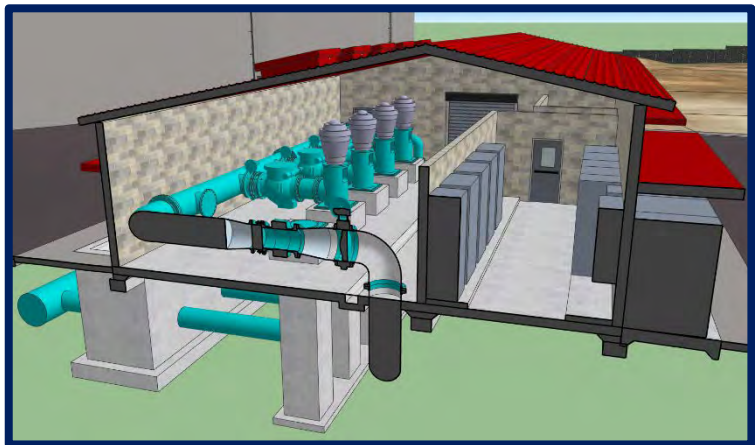


Figure 6: Section view of the Booster Pump Station, facing west.

After the slab has been poured, work at the pump station will follow a series of building trade subcontractors who will construct the CMU block walls, erect the open web steel joist roof structure, install the standing seam metal roof and access hatches, install HVAC, louvers, roll-up door, etc. CMU block buildings, like the one on the West Side Tanks and Booster Pump Station Project, requiring the contribution of numerous building trades are

a standard feature on water conveyance projects completed by AUBURN. Our project manager and site foremen will work closely with our subcontractors to ensure that each step is properly coordinated and executed.

As the building is being completed, our mechanical crew will be present to install the vertical turbine pumps and motors, exposed piping and valves, and the chemical storage and injection system. Completion of the CMU block building and mechanical installation will occur in August 2021, approximately 60 WD's after the slab has been poured. Completion of the Booster Pump Station is currently shown with 250 WD's of float.

Item #5 Key Staff:

- **Luke Smith (Project Manager) – Overall project planning and coordination, site supervision of AUBURN concrete and mechanical crews, subcontractor coordination**
- **Don Pearson (Electrical Superintendent) – Electrical coordination**
- **Building Trade Subcontractors – Construction of CMU block building, steel erection, roof installation, HVAC, roll-up door**

ITEM #6: ELECTRICAL, INSTRUMENTATION, AND CONTROL

As mentioned above, electrical underground installation will begin at the PW tanks after over-excavation of the tank footings is complete. It is our preference to rough-in the duct bank that runs between the two tanks prior to tank construction, as this area will become inaccessible while tank work is in progress and it will prevent us from potentially having to excavate back through the MSE foundation if this work had to occur after the tanks were completed. From the tanks, our electrical crew will follow behind our mechanical crew, roughing-in electrical at the tank valve vault and progressing east to the booster pump station. Underground electrical at the pump station will be completed after the pump cans and pump station valve vault are backfilled. The electrical crew will then focus on the generator area, followed by remaining duct banks onsite.

Once the booster pump station structure is complete, focus will shift to installation of above ground features at the pump station, including the switchboard, ATS, VFD's, soft starters, control panel, instrumentation, etc. Our crews will then install the generator and ancillary equipment at the generator area. They will then return to the PW tanks once tank construction is completed to rough-in any remaining underground and install tank instrumentation.

Our electrical team will be a driving force in helping to coordinate permanent power connection to the site. We will engage with Roseville Electric early on and throughout the

project to ensure that our scheduling and inspection requirements are identified and understood.

Installation of hardware, instrumentation, and I&C infrastructure will be by the Contractor while programming will be provided by the City. Our electrical team and system integrator will work closely with the City to ensure that this is a smooth and successful process.

AUBURN holds a major advantage over our competitors in the electrical field because we perform all electrical work in-house. This not only helps us to keep our costs low, but it effectively houses the electrical scope within the AUBURN family. Work is scheduled seamlessly as our managers from the civil and electrical disciplines work hand-in-hand, and our field crews work together on a daily basis. This helps to severely mitigate scheduling and coordination conflicts that can occur as subcontractors vie for priority or access.

Item #6 Key Staff:

- Luke Smith (Project Manager) – Overall project planning and coordination
- Andy Rusk (Electrical PM) – Electrical sequencing and scheduling, Coordination with Roseville Electric
- Don Pearson (Electrical Superintendent) – Site electrical coordination and supervision
- Integrator – Supply, testing, & startup assist of PLC, control panel, instrumentation, and other I&C hardware.

ITEM #7: SITEWORK CONCRETE, PAVING, AND LANDSCAPING

After the site is developed and some of the major structural features are completed, focus will shift to several sitework related features, including the CMU block wall, installation of three (3) Bioretention Ponds, permanent chain link fencing, sitework concrete, AC paving, and landscaping. Some of these features cannot be completed until the tank work is complete and GATEWAY has demobilized from the site, such as installing the south bioretention pond and grading, paving, and pouring miscellaneous concrete around the tanks.

Item #7 Key Staff:

- Luke Smith (Project Manager) – Overall project planning and coordination, sequencing subcontractor work, managing Auburn forces performing concrete installation.
- Subcontractors – Paving, Landscaping, CMU block installation, Liner installation, & chain link fencing will be performed by subcontractor forces.

ITEM #8: PROJECT STARTUP, COMMISSIONING, AND CLOSEOUT

As we approach project completion, AUBURN will provide a detailed Start-up Plan and Disinfection Plan, along with a Start-up Schedule and Training Schedules in accordance with Technical Specification Section 07750, to coordinate all start-up activities with the City and our suppliers. This plan and schedule will be provided to the City not less than 3 months prior to initial equipment startup to allow ample time for review.

The startup process, in general, will begin with the cleaning, flushing, disinfection, bacteriological testing, and leak testing of the PW Tanks and distribution system, which was discussed briefly in Item #3 above. Once we have water in the system, we can move into Functional and Performance Testing of the plant equipment. Each individual equipment startup will be coordinated by AUBURN and will be supervised onsite by the manufacturers' technical representative. Our Integrator and the City's programmer will

also be required onsite during this process, so they are able to communicate directly with the manufacturers' representatives and ensure that each piece of equipment is communicating properly with the plant PLC. City operators will also be required onsite at this time to participate in essential training for each piece of equipment.

Operational Testing of the plant can proceed once training and individual equipment

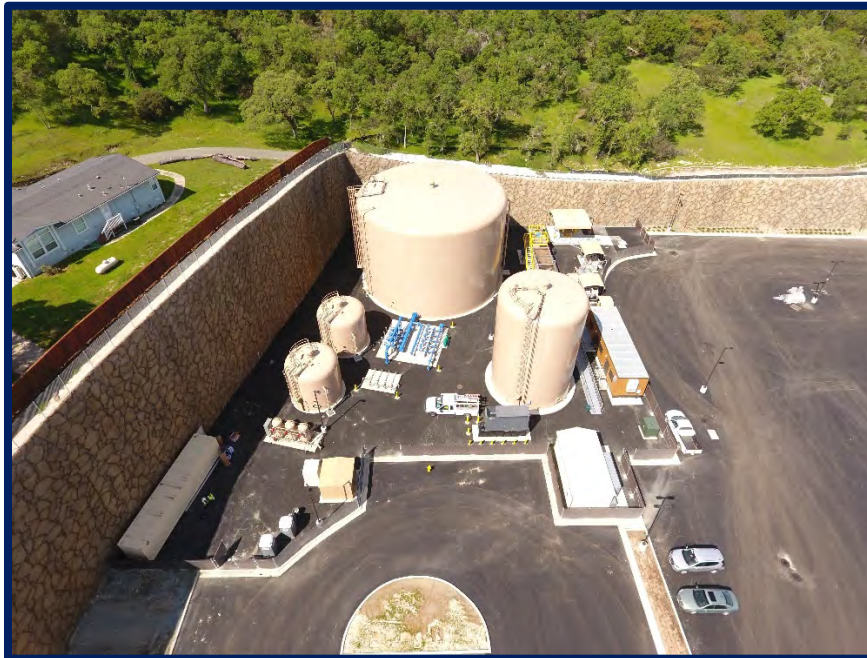


Figure 7: Aerial view of a PW and wastewater treatment facility recently constructed and commissioned by AUBURN for Harrah's Northern California Casino in Lone, CA.

start-ups have been completed. Overall startup of the plant facilities will be demonstrated by conducting a seven (7) day, continuous operational test of the completed facilities. This test will prove to the City's and Engineer's satisfaction that all equipment and systems operate in the manner they are intended to perform.

Our final task will be to ensure that a thorough punch list has been developed and all items have been fully satisfied. AUBURN will then demobilize from the project and turnover the facility to the City's care.

Item #8 Key Staff:

- Luke Smith (Project Manager) – Overall project planning and coordination, sequencing of start-up activities, preparation of start-up plan, coordinating training, development of punch list, and completion of As-Builts.
- Andy Rusk (Electrical PM) – Electrical and I&C startup coordination.
- Gateway Pacific (Tank Builder) – Leak Testing, Disinfection of PW Tanks.
- Integrator – Onsite I&C startup assistance.
- Vendors – Onsite equipment testing and startups.

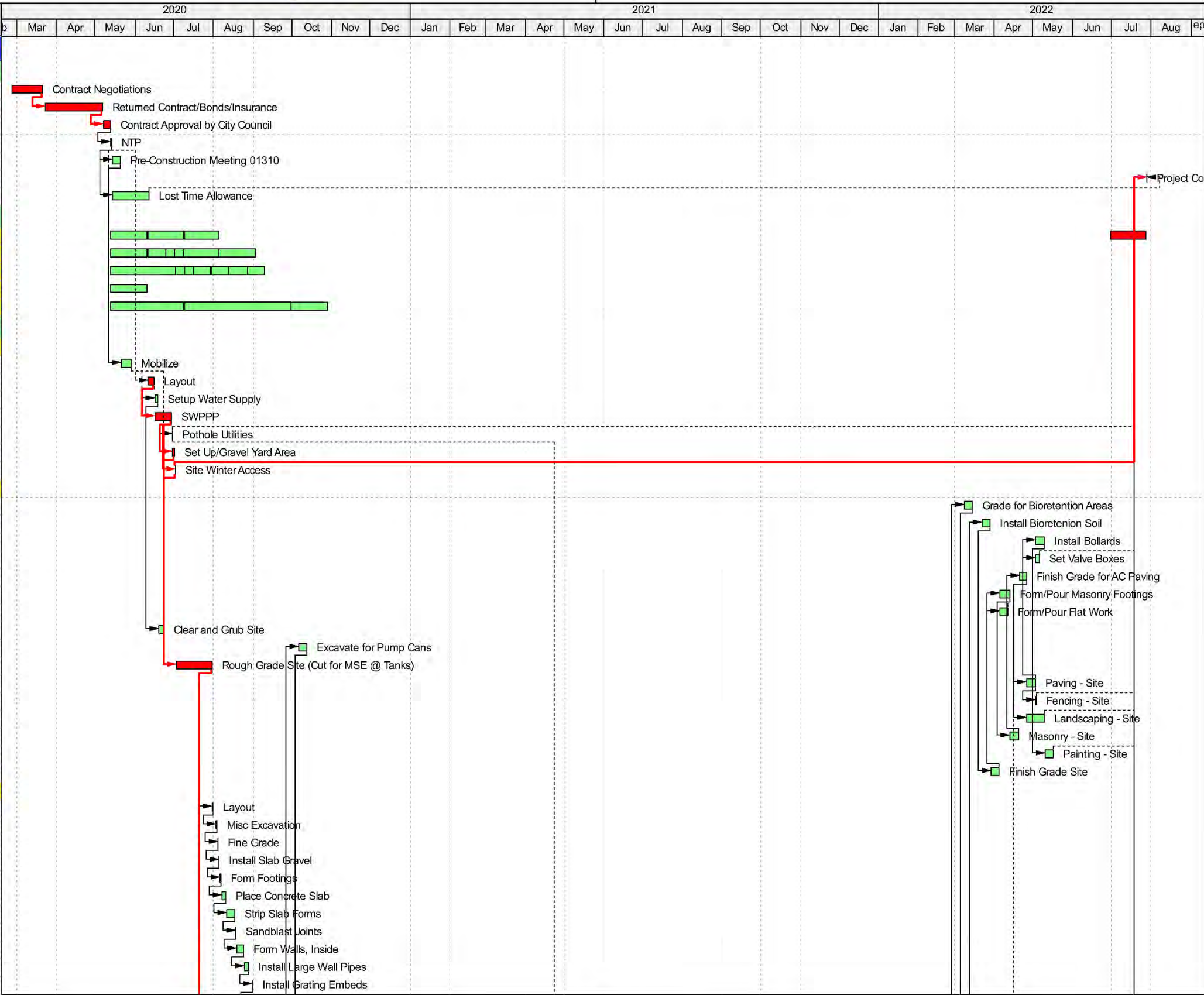
PRELIMINARY PROJECT SCHEDULE

Our proposed work schedule is shown on the pages that follow. This preliminary schedule has been prepared by Darin Van Oosterhout, who is our proposed CPM Scheduler for the project. Please see Tab G of this proposal to review Darin's experience and qualifications.

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Activity ID	Activity Name	Start	Finish	Original Duration	Actual Duration	Total Float
West Side Tanks & Pump Station Project						
Project Administration						
ADM001	Contract Negotiations	26-Feb-20	20-Mar-20	18	0	0
ADM002	Returned Contract/Bonds/Insurance	23-Mar-20	06-May-20	33	0	0
ADM003	Contract Approval by City Council	07-May-20	12-May-20	4	0	0
ADM004	NTP	13-May-20	13-May-20	1	0	12
ADM005	Pre-Construction Meeting 01310	14-May-20	20-May-20	5	0	12
ADM006	Project Complete	28-Jul-22	28-Jul-22	1	0	0
ADM007	Lost Time Allowance	14-May-20	11-Jun-20	20	0	555
Procurement						
Submit/Review/Approve Administration Submittals						
Submit/Review/Approve Long Lead Submittals						
Submit/Review/Approve Prestressed Concrete Tank						
Other Submittals (no procure)						
Submit/Review/Approve Div16 Submittals						
Site Development & Improvements						
Mobilization						
MOB02	Mobilize	21-May-20	28-May-20	5	0	12
MOB04	Layout	11-Jun-20	15-Jun-20	3	0	0
MOB06	Setup Water Supply	16-Jun-20	18-Jun-20	3	0	7
MOB08	SWPPP	16-Jun-20	29-Jun-20	10	0	0
MOB10	Pothole Utilities	30-Jun-20	30-Jun-20	1	0	444
MOB12	Set Up/Gravel Yard Area	30-Jun-20	01-Jul-20	2	0	0
MOB14	Site Winter Access	02-Jul-20	02-Jul-20	1	0	0
Sitework						
STE02	Grade for Bioretention Areas	08-Mar-22	14-Mar-22	5	0	23
STE02.1	Install Bioretention Soil	22-Mar-22	28-Mar-22	5	0	52
STE04	Install Bollards	03-May-22	09-May-22	5	0	52
STE06	Set Valve Boxes	03-May-22	05-May-22	3	0	59
STE14	Finish Grade for AC Paving	20-Apr-22	25-Apr-22	4	0	52
STE16	Form/Pour Masonry Footings	05-Apr-22	12-Apr-22	6	0	52
STE18	Form/Pour Flat Work	05-Apr-22	11-Apr-22	5	0	58
STE30.1	Clear and Grub Site	19-Jun-20	23-Jun-20	3	0	7
STE30.2	Excavate for Pump Cans	06-Oct-20	12-Oct-20	5	0	167
STE30.3	Rough Grade Site (Cut for MSE @ Tanks)	03-Jul-20	30-Jul-20	20	0	0
STE32	Paving - Site	26-Apr-22	02-May-22	5	0	52
STE34	Fencing - Site	03-May-22	03-May-22	1	0	61
STE36	Landscaping - Site	26-Apr-22	09-May-22	10	0	57
STE40	Masonry - Site	13-Apr-22	19-Apr-22	5	0	52
STE42	Painting - Site	10-May-22	16-May-22	5	0	52
STE44	Finish Grade Site	29-Mar-22	04-Apr-22	5	0	52
Valve Vault						
VV02	Layout	31-Jul-20	31-Jul-20	1	0	440
VV04	Misc Excavation	03-Aug-20	03-Aug-20	1	0	440
VV06	Fine Grade	04-Aug-20	04-Aug-20	1	0	440
VV08	Install Slab Gravel	05-Aug-20	05-Aug-20	1	0	440
VV10	Form Footings	06-Aug-20	06-Aug-20	1	0	440
VV12	Place Concrete Slab	07-Aug-20	10-Aug-20	2	0	440
VV14	Strip Slab Forms	11-Aug-20	17-Aug-20	5	0	440
VV16	Sandblast Joints	18-Aug-20	18-Aug-20	1	0	440
VV18	Form Walls, Inside	19-Aug-20	24-Aug-20	4	0	440
VV20	Install Large Wall Pipes	25-Aug-20	28-Aug-20	4	0	440
VV22	Install Grating Embeds	31-Aug-20	31-Aug-20	1	0	440



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 Actual Work
  Critical Remaining Work
 Remaining Work
  Milestone

Actual Work
Critical Remaining Work
Remaining Work
Milestone
Page 5 of 6
TASK filter: All Activities
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Activity ID	Activity Name	Start	Finish	Original Duration	Actual Duration	Total Float	2020												2021												2022											
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
SU12	Field Testing Panelboard & Transformer	30-May-22	31-May-22	2	0	0																																				
	Field Testing VFD's	01-Jun-22	02-Jun-22	2	0	0																																				
	Field Testing Control Panels	03-Jun-22	07-Jun-22	3	0	0																																				
	Field Testing PLC Hardware	08-Jun-22	14-Jun-22	5	0	0																																				
	Field Testing Security System	15-Jun-22	16-Jun-22	2	0	0																																				
	Field Testing Access Control System	17-Jun-22	20-Jun-22	2	0	0																																				
	Field Testing Video Monitoring System	21-Jun-22	22-Jun-22	2	0	0																																				
	Field Testing Instrumentation	23-Jun-22	29-Jun-22	5	0	0																																				
	Final Acceptance	30-Jun-22	06-Jul-22	5	0	10																																				
	Start Up Complete	07-Jul-22	13-Jul-22	5	0	10																																				



TAB C



**PROJECT COST REDUCTION
OPPORTUNITIES**

PROJECT COST REDUCTION OPPORTUNITIES

Based on AUBURN's thorough proposal preparation and our firm's extensive experience constructing projects of similar scope, we have identified the following items we believe can improve the existing plan for the new facilities while also potentially creating a savings both during construction and for long term operation and maintenance.

OPPORTUNITY #1: STANDBY GENERATOR

Some disadvantages to the current generator arrangement are the large footprint consumed, the generator will most likely require proprietary parts for servicing and maintenance, and, if the generator were to go down, there is no redundancy built into the system. We would like to propose the installation of three (3) 500 kW generators in parallel. Some advantages to this proposed system include: less up-front costs, less maintenance costs, much faster starting than the 1500 kW size generator, no proprietary parts needed, some amount of redundancy built into the system if one generator fails, and the ability to add a future generator should the plant load increase in the future.

Another inherent opportunity with this change would be to install belly fuel tanks under each generator. This would greatly diminish the footprint of the generator and eliminate the need to run additional plumbing and electrical to a remote tank. Costs would be greatly reduced by eliminating the need for third-party components in the tank fabrication, eliminating the extra concrete footing, and eliminating the stairs and landings.

To initiate this opportunity's review the generator manufacturer will provide documentation in submittal format showing the benefits of changing to multiple smaller generators along with some of the frequently asked questions and examples of other projects which have made similar changes.



Figure 8: Overview of the current design for a 1500 kW diesel engine generator, load bank, and remote fuel tank located on the east side of the Booster Pump Station.

OPPORTUNITY #2: TANK FOUNDATION

GATEWAY has been involved in several Design-Build pre-stressed concrete storage tank projects that included foundation improvements similar to the one designed for this project. One of these past projects utilized the same Geogrid and MSE system specification as the West Side Tanks. It is our professional opinion that it may be possible to utilize Rammed Earth Rock Columns, or alternatively, substitute CLSM in place of Geogrid in order to realize a significant cost savings. We recommend hiring an outside geotechnical engineer to examine soil borrowings to assist us in developing a cost saving alternative, which will also potentially lessen future settlement. Upon receiving initial design information (load diagram) from the Engineer of Record, we would then consult with potential Rammed Earth Pier Contractors to determine if the change is feasible. If feasible and works with other conditions and requirements for the project we would then have this reviewed and approved by our own subconsultant geotechnical engineer.

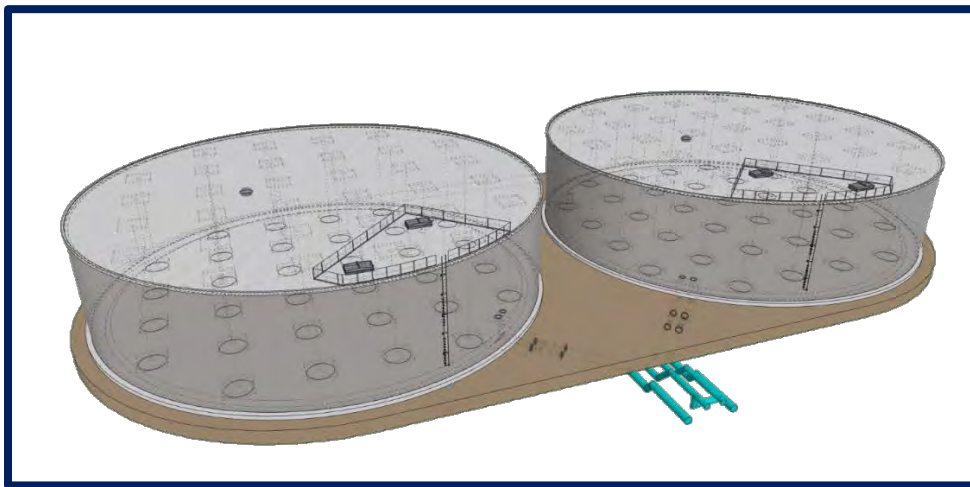


Figure 9: Isometric, x-ray view through the two 6.0 MG potable water storage tanks and the MSE foundation.

OPPORTUNITY #3: HYDRODYNAMIC MIXING SYSTEM

Specification Section 11268 requires that the tank mixing system in the two potable water tanks be the Tideflex Mixing System sole sourced by Tideflex Technologies. The cost of this system is extremely expensive because it is proprietary equipment with no competition. This type of mixing system functions well when there is only one common inlet and outlet pipe designed in the tank; however, the West Side Tanks are designed with individual inlet and outlet pipes. There are other ways of providing water mixing without using duckbill valves and stainless-steel piping. For example, the City has a mixing system in their 7.2mg North East tank utilizing a perforated inlet pipe on the tank floor.

Aside from its inflated cost, a key disadvantage to the Tideflex passive mixing system is it only mixes when water is being pumped into the tank. During the winter months when water use is greatly reduced, an active mixing system using a stand-alone mixer inside the tank is much more efficient. The continuous, powerful circulation of an active mixer provides the most thorough mixing for tanks and enables operators to keep tanks full without sacrificing water quality. Utilizing an active mixing system for the West Side Tanks could present a significant cost savings to the project and will improve water quality.

Additional input and information will be provided from follow-up meetings with the operations staff and Engineer of Record to determine if this opportunity is further discussed (pursuant to our meeting of 3-Mar.-20).



Figure 10: View of a Tideflex Passive Mixing System



TAB D



**CONTRACTOR'S MINIMUM QUALIFICATIONS
AND CERTIFICATIONS**

CONTRACTOR'S MINIMUM QUALIFICATIONS AND CERTIFICATIONS

ATTACHMENT 1 – Proposer's Certification and Evidence of Authority to Sign

Attachment 1- PROPOSER'S CERTIFICATION

West Side Tanks and Pump Station

In response to the Request for Proposals (RFP), dated November 15, 2019, the undersigned hereby proposes to City to furnish all plant, labor, technical and professional services, supervision, materials, and equipment (other than materials and equipment specified as furnished by City), and to perform all operations necessary and required for construction of the West Side Tanks and Pump Station Project, in accordance with the Contract Documents, and any Addenda thereto, for the Total Guaranteed Maximum Price (GMP) and all other terms submitted in the Proposal.

This Proposal constitutes a firm offer to City, which cannot be withdrawn for 120 days from and after the date set for receiving Proposals, or until the Agreement is fully executed by City, whichever is earlier.

It is understood that this Proposal is based upon completion of the Work within a period outlined in Exhibit H-COMPLETION TIMES AND LIQUIDATED DAMAGES, of the Agreement commencing on the date specified in the Notice to Proceed.

The undersigned Proposer hereby certifies that it has examined and is fully familiar with all of the provisions of the Contract Documents; has carefully checked all of the words and figures shown on its Proposal; has carefully reviewed the accuracy of all statements in this Proposal and attachments hereto; and understands and agrees that City will not be responsible for any errors or omissions on the part of the undersigned in preparing this Proposal.

The undersigned Proposer has, by careful examination of the Contract Documents, and by examination of the actual Site conditions, satisfied itself as to the nature and location of all Work, the general and local conditions to be encountered in the performance of any Work, the requirements of the Contract Documents, and all other matters that can in any way affect the Work or the cost thereof.

The undersigned agrees to execute the Agreement and provide City the executed Agreement, the required insurance certificates, endorsements, and waivers of subrogation, and the required surety bonds within fifteen (10) business days after the undersigned's receipt of the City's unsigned Agreement.

I further certify that this proposal is made without prior understanding, agreement, connection, discussion, or conspiracy with any other person, firm or corporation submitting a proposal for the same product or service; that this proposal is fair and made without outside control, collusion, fraud or illegal action; that no officer, employee or agent of the City or any other proposer is financially interested in said proposal; that no undue influence or pressure was used against or in concert with any officer, employee or agent of the City in connection with the award or terms of the contract that will be executed as a result of this RFP; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

Type of Organization:

☐ Sole Proprietorship ☐ Corporation ☐ State of Incorporation
☐ Partnership ☒ Limited Liability Company

The undersigned Proposer acknowledges receipt, understanding, and full consideration of the following Addenda:

RFP West Side Tanks and Pump Station
Attachment 1 – Proposers Certification

Page 38 of 98

Table 1.1 – Acknowledgement of Addenda

Addendum Number	Addendum Date	Signature of Proposer
1	12/12/19	
2	01/09/20	
3	01/22/20	

Certification if proposing firm is a Sole Proprietorship:

Name (typed or printed):			
By:			
		(Individual's signature)	
Doing business as:			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

Certification if proposing firm is a Partnership

Partnership Name (typed or printed):			
By:			
		(Signature of general partner- attach evidence of authority to sign)	
Name (typed or printed):			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

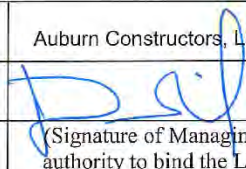
Certification if proposing firm is a Corporation:

Corporation Name (typed or printed):	
State of Incorporation:	
By:	
	(Signature - attach evidence of authority to sign – Board Resolution)
Name (typed or printed):	
Title:	
(CORPORATE SEAL)	

Attest:			
		(Signature of Corporate Secretary)	
Name:			
Date of Qualification to do business:			
Business Address:			
Phone Number:	()	FAX Number:	()
Email Address of Authorized Representative:			

***If person executing on behalf of a Corporation is not the President or Vice President, evidence of authority to sign on behalf of Corporation must be attached.**

Certification if proposing firm is a Limited Liability Company:

Limited Liability Company Name :		Auburn Constructors, LLC	
By:			
		(Signature of Managing Member - attach evidence of authority to bind the LLC under the LLC's articles of organization)	
Name (typed or printed):		J. Dean Bailey	
Title:		President	
Business Address:		730 West Stadium Lane, Sacramento, CA, 95834	
Phone Number:	(916) 924-0344	FAX Number:	(916) 924-1800
Email Address of Authorized Representative:		dbailey@auburnconstructors.com	

****END OF ATTACHMENT 1****

LIMITED LIABILITY COMPANY – SIGNATURE AUTHORITY
AUBURN CONSTRUCTORS, LLC

The special meeting of the Members of Auburn Constructors, LLC was held at Sacramento, CA on January 17, 2020 at 2:00 p.m., all Members present, J. Dean Bailey, Managing Member, presided over the meeting.

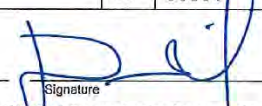
RESOLVED, that J. Dean Bailey, as Managing Member, shall be duly authorized to sign all legal documents on behalf of Auburn Constructors, LLC.



John West
Member

Brian Couper
Member

Rich White
Member

	Secretary of State Statement of Information (Limited Liability Company)	LLC-12	19-A23281 FILED In the office of the Secretary of State of the State of California JAN 18, 2019		
IMPORTANT — Read instructions before completing this form. Filing Fee — \$20.00 Copy Fees — First page \$1.00; each attachment page \$0.50; Certification Fee — \$5.00 plus copy fees			This Space For Office Use Only		
1. Limited Liability Company Name (Enter the exact name of the LLC. If you registered in California using an alternate name, see instructions.) AUBURN CONSTRUCTORS, LLC					
2. 12-Digit Secretary of State File Number 201815110028		3. State, Foreign Country or Place of Organization (only if formed outside of California) CALIFORNIA			
4. Business Addresses					
a. Street Address of Principal Office - Do not list a P.O. Box 730 W. Stadium Lane		City (no abbreviations) Sacramento	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">State CA</td> <td>Zip Code 95834</td> </tr> </table>	State CA	Zip Code 95834
State CA	Zip Code 95834				
b. Mailing Address of LLC, if different than item 4a 730 W. Stadium Lane		City (no abbreviations) Sacramento	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">State CA</td> <td>Zip Code 95834</td> </tr> </table>	State CA	Zip Code 95834
State CA	Zip Code 95834				
c. Street Address of California Office, if item 4a is not in California - Do not list a P.O. Box 730 W. Stadium Lane		City (no abbreviations) Sacramento	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">State CA</td> <td>Zip Code 95834</td> </tr> </table>	State CA	Zip Code 95834
State CA	Zip Code 95834				
5. Manager(s) or Member(s) If no managers have been appointed or elected, provide the name and address of each member. At least one name and address must be listed. If the manager/member is an individual, complete items 5a and 5c (leave item 5b blank). If the manager/member is an entity, complete items 5b and 5c (leave item 5a blank). Note: The LLC cannot serve as its own manager or member. If the LLC has additional managers/members, enter the name(s) and addresses on Form LLC-12A (see instructions).					
a. First Name, if an individual - Do not complete item 5b		Middle Name	Last Name		
b. Entity Name - Do not complete item 5a Auburn Constructors, Inc.		Suffix			
c. Address 730 W. Stadium Lane		City (no abbreviations) Sacramento	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">State CA</td> <td>Zip Code 95834</td> </tr> </table>	State CA	Zip Code 95834
State CA	Zip Code 95834				
6. Service of Process (Must provide either Individual OR Corporation.) INDIVIDUAL — Complete items 6a and 6b only. Must include agent's full name and California street address.					
a. California Agent's First Name (if agent is not a corporation) JACK		Middle Name Dean	Last Name BAILEY		
b. Street Address (if agent is not a corporation) - Do not enter a P.O. Box 730 W. Stadium Lane		City (no abbreviations) Sacramento	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">State CA</td> <td>Zip Code 95834</td> </tr> </table>	State CA	Zip Code 95834
State CA	Zip Code 95834				
CORPORATION — Complete item 6c only. Only include the name of the registered agent Corporation.					
c. California Registered Corporate Agent's Name (if agent is a corporation) - Do not complete item 6a or 6b					
7. Type of Business					
a. Describe the type of business or services of the Limited Liability Company General Engineering Contractor					
8. Chief Executive Officer, if elected or appointed					
a. First Name JACK		Middle Name Dean	Last Name BAILEY		
b. Address 730 W. Stadium Lane		City (no abbreviations) Sacramento	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">State CA</td> <td>Zip Code 95834</td> </tr> </table>	State CA	Zip Code 95834
State CA	Zip Code 95834				
9. The information contained herein, including any attachments, is true and correct.					
01/18/2019	JACK Dean BAILEY	President			
Date	Type or Print Name of Person Completing this Form	Title			
Return Address (Optional) (For communication from the Secretary of State related to this document, or if purchasing a copy of the filed document enter the name of a person or company and the mailing address. This information will become public when filed. SEE INSTRUCTIONS BEFORE COMPLETING.)					
Name: _____					
Company: _____					
Address: _____					
City/State/Zip: _____					
Signature: 					
LLC-12 (REV 01/2017)					

	Attachment to Statement of Information (Limited Liability Company)	LLC-12A Attachment	19-A23281
A. Limited Liability Company Name AUBURN CONSTRUCTORS, LLC		This Space For Office Use Only	
B. 12-Digit Secretary of State File Number 201815110028		C. State or Place of Organization (only if formed outside of California) CALIFORNIA	

D. List of Additional Manager(s) or Member(s) - If the manager/member is an individual, enter the individual's name and address. If the manager/member is an entity, enter the entity's name and address. Note: The LLC cannot serve as its own manager or member.

First Name Brian	Middle Name	Last Name Couper	Suffix
Entity Name			
Address 730 W. Stadium Lane		City (no abbreviations) Sacramento	State CA Zip Code 95834
First Name John	Middle Name	Last Name West	Suffix
Entity Name			
Address 730 W. Stadium Lane		City (no abbreviations) Sacramento	State CA Zip Code 95834
First Name Richard	Middle Name	Last Name White	Suffix
Entity Name			
Address 730 W. Stadium Lane		City (no abbreviations) Sacramento	State CA Zip Code 95834
First Name	Middle Name	Last Name	Suffix
Entity Name			
Address		City (no abbreviations)	State Zip Code
First Name	Middle Name	Last Name	Suffix
Entity Name			
Address		City (no abbreviations)	State Zip Code
First Name	Middle Name	Last Name	Suffix
Entity Name			
Address		City (no abbreviations)	State Zip Code
First Name	Middle Name	Last Name	Suffix
Entity Name			
Address		City (no abbreviations)	State Zip Code
First Name	Middle Name	Last Name	Suffix
Entity Name			
Address		City (no abbreviations)	State Zip Code

ATTACHMENT 2 – Certification of Proposer’s Experience and Qualifications

Attachment 2 – MINIMUM EXPERIENCE AND QUALIFICATIONS REQUIREMENTS

West Side Tanks and Pump Station Project

The undersigned Proposer represents that it is duly licensed, competent, and knowledgeable and has the special skills on the nature, extent and inherent conditions of the work to be performed on this Project. Proposer further acknowledges that the conditions inherent in the construction of particular facilities may create, during construction, unusual or unsafe conditions hazardous to persons and property. Proposer expressly acknowledges that it is aware of such risks and that it has the skill and experience to foresee and to adopt and implement protective measures to adequately and safely perform the construction work with respect to such hazards. The prospective Proposer’s qualifications and responses to the questions set forth below are part of the City’s evaluation of the Proposer’s eligibility to receive the award based on the Proposer’s responsibility and responsiveness. The Owner has determined that only Proposers meeting the mandatory minimum experience and qualification requirements set forth below will have the requisite quality, fitness, capacity and experience to perform the highly complex and vital construction work on this Project.

QUESTIONS REGARDING PROPOSER’S RESPONSIBILITY AND FITNESS TO CONTRACT FOR THE WORK.

An answer of “False” to any of the Statements 1 through 9 will be rated a “Fail” and the Prospective Proposer will be immediately disqualified.

Table 2.1 Minimum Qualifications and Experience Questionnaire

No.	True	False	Statement
1	X		Prospective Proposer possesses a valid and current California Contractor’s license -Class A, General Engineering Contractor) for the project for which it intends to submit a Proposal.
2	X		Proposer’s company’s contractor’s license HAS NOT been revoked at any time in the last five years.
3	X		Prospective Proposer is registered with the California Department of Industrial Relations pursuant to California Labor Code Section 1725.5.
4	X		Prospective Proposer has not had a surety finish the work on any contract in the past five years.
5	X		Prospective Proposer has current workers’ compensation insurance policy as required by the Labor Code or is legally self-insured pursuant to Labor Code section 3700 et. seq. OR Prospective Proposer is exempt from this requirement because it has no employees.

ATTACHMENT 2 - Certification of Proposer's Experience and Qualifications

No.	True	False	Statement
6	☒	☐	At the time of submitting this RFP, company is eligible to bid on or be awarded a public works contract, or perform as a subcontractor on a public works contract, pursuant to California Labor Code §1777.1 and Labor Code §1777.7.
7	☒	☐	At no time during the last five (5) years, has Proposer's company, or any of its officers or partners been convicted of a crime involving the awarding of a contract for a government construction project, or the bidding or performance of any federal, state or local government contract.
8	☒	☐	Prospective Proposer agrees to perform with its own organization and with the assistance of workers under its immediate superintendence, work of a value not less than 30% of the Proposer's Total Guaranteed Maximum Price.
9	☒	☐	Proposer's Firm has completed at least \$75 Million in construction value on no more than seven (7) projects completed since January 1, 2009.

Auburn Constructors LLC

NAME OF BUSINESS

SIGNATURE

J. Dean Bailey, President

NAME & TITLE, TYPED OR PRINTED

****END OF ATTACHMENT 2****

ATTACHMENT 3 – License Information

Attachment 3 - LICENSES and DIR REGISTRATION

West Side Tanks and Pump Station Project

List the licenses held by your company and/or employees. The following representations are made under penalty of perjury.

A. CONTRACTOR'S LICENSES

CA State License No.	Name on License	Class/Type	Expiration Date
1043407	Auburn Constructors, LLC	A, B, C-10	08/31/2020

B. CITY OF ROSEVILL BUSINESS LICENSE

Contractors are not required to have a City of Roseville Business license to submit a proposal; however, it will be required before executing a contract. Contractors may apply for a business license at: <https://www.roseville.ca.us/government/departments/finance/licensing/business>

Do you currently have a City of Roseville Business License? ☒ Yes ☐ No

License No. 00838961

C. DEPARTMENT OF INDUSTRIAL RELATIONS CONTRACTOR REGISTRATION

***For Public Works Projects (SB854):** Contractors must register with the Department of Industrial Relations (DIR) pursuant to Labor Code section 1725.5. The Contractor shall provide proof of current registration with the Department of Industrial Relations for both itself and all listed subcontractors with their proposal. Contractors may register at: <http://www.dir.ca.gov/public-works/publicworks.html>

DIR contractor registration number and expiration date:

No.: 100060543 Expiration Date: 06/30/2020

****END OF ATTACHMENT 3****

ATTACHMENT 4 – Corporate Tree

Attachment 4 – CORPORATE TREE

(Proposer to Provide)

**NOT
APPLICABLE**

****END OF ATTACHMENT 4****



TAB E



**PROJECT TEAM QUALIFICATIONS
AND EXPERIENCE**

PROJECT TEAM QUALIFICATIONS AND EXPERIENCE

AUBURN CONSTRUCTORS

Auburn Constructors, LLC (AUBURN) is a General Engineering contractor that has been providing a wide range of construction services for Clients/ Owners in California and Nevada since 1990. AUBURN specializes in the construction of water and wastewater treatment facilities, storm water and freshwater pump stations, water storage facilities, and other water resource/recovery projects. Each project is approached as a joint effort between the client, design, and construction teams. We consistently deliver the highest quality and best value to our clients by integrating teamwork, dedicated project management, and outstanding craftsmanship.

AUBURN self-performs much of all field work with its own experienced crews, including structural concrete, mechanical and process piping, equipment installation and associated earthwork as well as all electrical and instrumentation installations. Many of the company's craftspeople are skilled in several trades which makes the crews versatile and efficient. AUBURN supports its projects with a corporate staff that is thoroughly experienced in all aspects of construction accounting, contracts, risk-management and employee administration services.



Figure 11: Auburn personnel installing vertical turbine pumps at the Los Osos Water Recycling Facility Project.

Throughout our history, AUBURN has completed numerous construction projects under alternative contracting methods. This list includes projects for the Calaveras County Water District, Kirkwood PUD, California American Water Company, Sacramento Regional County Sewer District, Modesto Irrigation District and numerous water and wastewater facilities for Indian Gaming Facilities throughout Northern California. We have also successfully completed the following projects with the City of Roseville:

- Dry Creek WWTP Cogeneration and Nitrate Reduction Improvements Project (Design Assist)
- Dry Creek WWTP Effluent Cooling Towers (Design Build)
- Pleasant Grove WWTP UV Disinfection (Design Assist)
- Dry Creek WWTP Secondary Clarifier(s) Rehabilitation (Design Assist)
- Roseville WTP Concrete & Clarifier Coating and Rehabilitation (Design Assist)

AUBURN has also completed the following projects under alternative contracting methods with Water Works Engineers:

- Dry Creek WWTP Secondary Clarifier(s) Rehabilitation (Design Assist)
- Folsom Water Treatment Plant - Solids Dewatering Project (Design Build)

AUBURN maintains an in-house Electrical Division, which is an integral member of the contracting team for all municipal projects we pursue. The magnitude of the electrical and instrumentation scope on a typical water delivery project requires the Contractor to possess, ideally with its own personnel, expertise of this industry in order to successfully construct, test and implement all of the electrical scope. AUBURN, through its in-house Electrical Division, can provide the City with assurance these requirements will be met. Andy Rusk is the Electrical Project Manager assigned to this project and will be assisting Don Pearson, the Electrical Superintendent, with procurement, RFI's, submittals, QC and safe work practices with respect to the electrical scope of work on this project. Both Mr. Rusk and Mr. Pearson have experience working with the City of Roseville in this capacity on the recently constructed Dry Creek WWTP Design-Assist Project.

The civil, mechanical, and electrical capabilities of AUBURN are unmatched within the treatment plant construction industry. AUBURN takes pride in continually earning positive comparisons when our completed work is seen next to that of another contractor. We see this superior craftsmanship as a direct result of our culture to train and promote from within the organization. We have promoted from within more than 80% of the foremen currently employed by AUBURN. This enables AUBURN to hand pick each foreman based on his leadership capabilities, craftsmanship, attention to safety and ethical character. Motivation and loyalty breed success in our company culture.

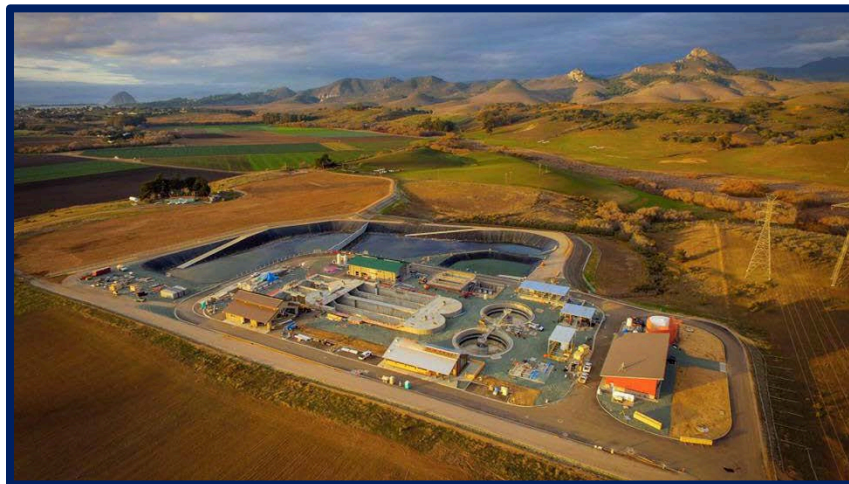


Figure 12: Aerial view of the Los Osos Water Recycling Facility Project. Auburn completed construction of this \$47.8M contract in September of 2016.

We believe that people are our most valuable asset. As such, safety is considered the Company's top priority. All new employees are thoroughly trained in safe work practices as it pertains to their respective work assignments and must pass pre-employment drug and alcohol screening. Safety is the key consideration when activities are planned, and our subcontractors are required to follow strict safety protocols as well. It is our focus that all our employees retire in good health with no injuries along the way. AUBURN believes

its strict attitude toward safety is the reason the company has an excellent safety record and has never received an OSHA citation.

The goal of AUBURN is to deliver the West Side Tanks and Booster Pump Station project to the City before its expected completion date and for a lower cost than budgeted. Our Project Manager (PM) plays a critical role in making this goal a reality. The PM assigned to this project, Luke Smith, will be onsite full-time and will be responsible for all aspects of the project. Mr. Smith is eager to join the Design-Assist team to collaborate with the City, Engineer, Subcontractors and Suppliers to deliver a quality project as cost-effectively as possible. Mr. Smith will be assisted by Kyle Hutchens with daily activities including daily QC inspection logs, RFI's, subcontractor scheduling, safety meetings/inspections, submittals, etc. Mr. Hutchens has experience working with the City of Roseville in this capacity on the recently constructed Dry Creek WWTP Design-Assist Project. Mr. Smith will also have the support from Kevin Couper, Safety Director, with respect to the company safety program. Mr. Couper provides all our Project Manager's with weekly safety meetings which are conducted on-site, as well as ensures that all Cal-OSHA safety and health requirements are in compliance.

MAJOR SUBCONTRACTOR: GATEWAY PACIFIC CONTRACTORS



Construction of the pre-stressed concrete potable water storage tanks will be performed by our Major Subcontractor, Gateway Pacific Contractors, Inc. (GATEWAY). Since 1987, Gateway has built over 90 AWWA D110 Type 1 prestressed reservoirs with DN Tanks, their designated tank pre-stressor. President Evan Lundin oversaw the construction of his first prestressed concrete reservoir in 1981 and has been actively involved in the prestressed tank industry for 39 years. As Gateway's President, Evan has been involved in many improvements in design and construction of these tanks, working closely with DN Tanks' owners and engineers.

GATEWAY is the only local qualified prestressed tank contractor in Northern California. Headquartered in Sacramento, California, GATEWAY has 60 full-time employees including 5 experienced tank superintendents. Although it is critical to have highly-experienced project managers and superintendents building prestressed tanks, it is just as important to have well-seasoned craftsman, including operators, carpenters, finishers and labors with the knowledge of what it takes to construct watertight structure with thin concrete slabs and 40-foot tall walls. These are the details that make a successful concrete prestressed tank.



Figure 13: Aerial view of the Bay Street Reservoir Replacement - Phase 2 project in Santa Cruz, CA constructed by Gateway Pacific. This project included the construction of a 6MG prestressed concrete potable water storage tank.

Because of the building boom in Northern California, all contractors are experiencing a shortage of skilled construction workers. GATEWAY is well aware of this and has been very selective not to take on more work than they have skilled craftsmen available to complete. The timing of these two particular 6MG tanks would be especially beneficial to GATEWAY as they are currently constructing a 6MG prestressed concrete tank in Lincoln, California which will be completed by June of this year. This crew of experienced craftsmen would be available for the West Side Tanks and Pump Station project.

Over our 32 years, GATEWAY has developed a great working relationship with the local subcontracting community. They select only subcontractors who have a proven record to be part of the team. GATEWAY self-performs all the concrete work with their experienced crews, while subcontracting the furnishing and placing of rebar to a qualified rebar Subcontractor with whom they are familiar. GATEWAY will also subcontract the deck shoring to an experienced shoring contractor who has done many of their tanks in the past. As mentioned above, GATEWAY will contract with DN Tanks, Inc. to provide the prestressing and shotcrete work.

GATEWAY's attention to safety has resulted in an EMR 3-year average of 0.90, Recordable Incident Rate 3-year average of 0.656 and "0" Lost Workday Incident Rate for the last 3 years. Gary Bechtel is Gateway Pacific's Safety Manager. He, along with the tank superintendent and GATEWAY's highly experienced craftsmen, will ensure that this project is constructed in a safe, healthy and responsible manner.

GATEWAY and AUBURN have worked together in the past on several projects in the area. We have a history of successful partnerships on projects, several of which were performed directly for the City of Roseville.

THE PROJECT TEAM

The following is a brief description of the duties, qualifications and availability of the management team assigned to this project. Each team member is readily available for this project once Contractor selection has been made. Please refer to the Appendix for the professional resumes of each team member listed below.



Dean Bailey, President (Project Sponsor) - Mr. Bailey, the majority shareholder of AUBURN, holds a degree in Construction Management from California State University, Chico and has over 28 years of experience with AUBURN constructing water and wastewater treatment facilities in the Western United States. Mr. Bailey will oversee all contractual matters for this project. As President and Managing Member for AUBURN, Mr. Bailey has an intimate knowledge of the project requirements as well as the intrinsic liabilities as they relate to the balance of Auburn's corporate structure. Project availability: On demand and will attend monthly meetings.



Kevin Couper, Senior Vice President (Principle-in-Charge) - Mr. Couper holds a Construction Management Certificate from the University of California, Davis and has over 27 years of experience with AUBURN constructing water and wastewater treatment facilities in the Western United States. Mr. Couper manages all field operations for AUBURN, assuring proper manpower and equipment are always assigned to all projects and works closely with each manager as needs arise. Additionally, Mr. Couper holds the position of AUBURN Safety Director. Kevin will ensure all safety training, inspections, meetings, and Cal-OSHA requirements are in compliance. Project availability: On demand and will attend weekly coordination meetings.



Luke Smith, P.E. Project Manager - Mr. Smith will be the on-site project manager for AUBURN, as well as serve in the role of Job Superintendent and Quality Control Manager. Mr. Smith holds a Bachelor of Science in Civil Engineering from California State University, Chico, as well as Professional Engineer licensure with the State of California. Mr. Smith has successfully completed several projects for AUBURN since joining the company in 2015. Project availability is 100%.

Kyle Hutchens, Assistant Project Manager - Mr. Hutchens will be the on-site assistant project manager for AUBURN. Mr. Hutchens holds a Bachelor of Science in Construction Management from Everglades University. Mr. Hutchens will assist the project manager with daily activities including daily QC inspection logs, RFI's, subcontractor scheduling, safety meetings/inspections, submittals, etc. Project availability is 100%.



Darin Van Oosterhout, CPM Scheduler - Mr. Van Oosterhout is AUBURN's proposed CPM Scheduler for the West Side Tanks and Pump Station Project. Darin has been a Project Manager and the lead scheduler with our Company on 18 projects since 1996. As the Construction Scheduler, Darin will work closely with all the Project stakeholders to ensure critical path activities are well identified, all potential delays are quickly addressed, and any project concerns are remedied. Project availability is 20%.



Andy Rusk, Electrical Project Manager - Mr. Rusk will assist AUBURN project management staff on all electrical matters. Mr. Rusk will direct all manpower workforce utilization for the Electrical Division on this project. Mr. Rusk will develop, process and review electrical material and equipment submittals for this project, generate electrical RFI's and will perform overall electrical coordination with all trades. Mr. Rusk commenced his employment with AUBURN in 2016. Project availability is 20%.



Don Pearson, Electrical Superintendent - Mr. Pearson will assist AUBURN project management staff on all electrical matters. Responsibilities include management of field crews to self-perform electrical and equipment installations. Coordination with project management, subcontractors, and suppliers. Oversee safety, quality control, and project scheduling. Assist project foreman with RFI's, design changes, material and equipment procurement, manpower, and equipment data information. Mr. Pearson commenced his employment with AUBURN in 2016. Project availability is 100%.



Gary Bechtel, Vice President, GATEWAY - Mr. Bechtel is an engineering and construction management industry veteran having served in multiple senior level positions over a distinguished 30-year career. Mr. Bechtel's career includes a broad and diversified project portfolio including an \$800 million Liquefied Natural Gas (LNG) Plant in Indonesia and a \$5.5 billion U.S. Nuclear Power Plant while with Bechtel International, as well as \$500M in successful wastewater and water treatment and storage projects for GATEWAY where he currently serves as VP Safety Manager. Project availability is 10%.



Jay Hall, Project Manager, GATEWAY - As Northern California Operations Manager, Mr. Hall is responsible for establishing and monitoring the budget of each Northern California project, including the preparation of monthly progress draws. At the beginning of each project, Jay selects the subcontractors and suppliers based on their capabilities, scopes of work and total cost. Jay orders all permits, organizes the work force, and ensures the project complies with the specifications and industry codes. He then tracks the project CPM schedule closely, monitoring progress and delays. Availability is 20%.



Gary Heim, Tank Superintendent Option #1, GATEWAY - Mr. Heim is responsible for managing project budget and schedule. His daily duties include planning, workforce management, coordination of subcontractors and deliveries, and interaction with representatives of the Owners and Engineer. Other duties include updating CPM schedule and weekly cost accounting. Additionally, Gary ensures that employees are provided with proper equipment, PPE, training, and

safe work procedures so they can make informed decisions and achieve our objective of no lost time incidents. Availability is 100%.

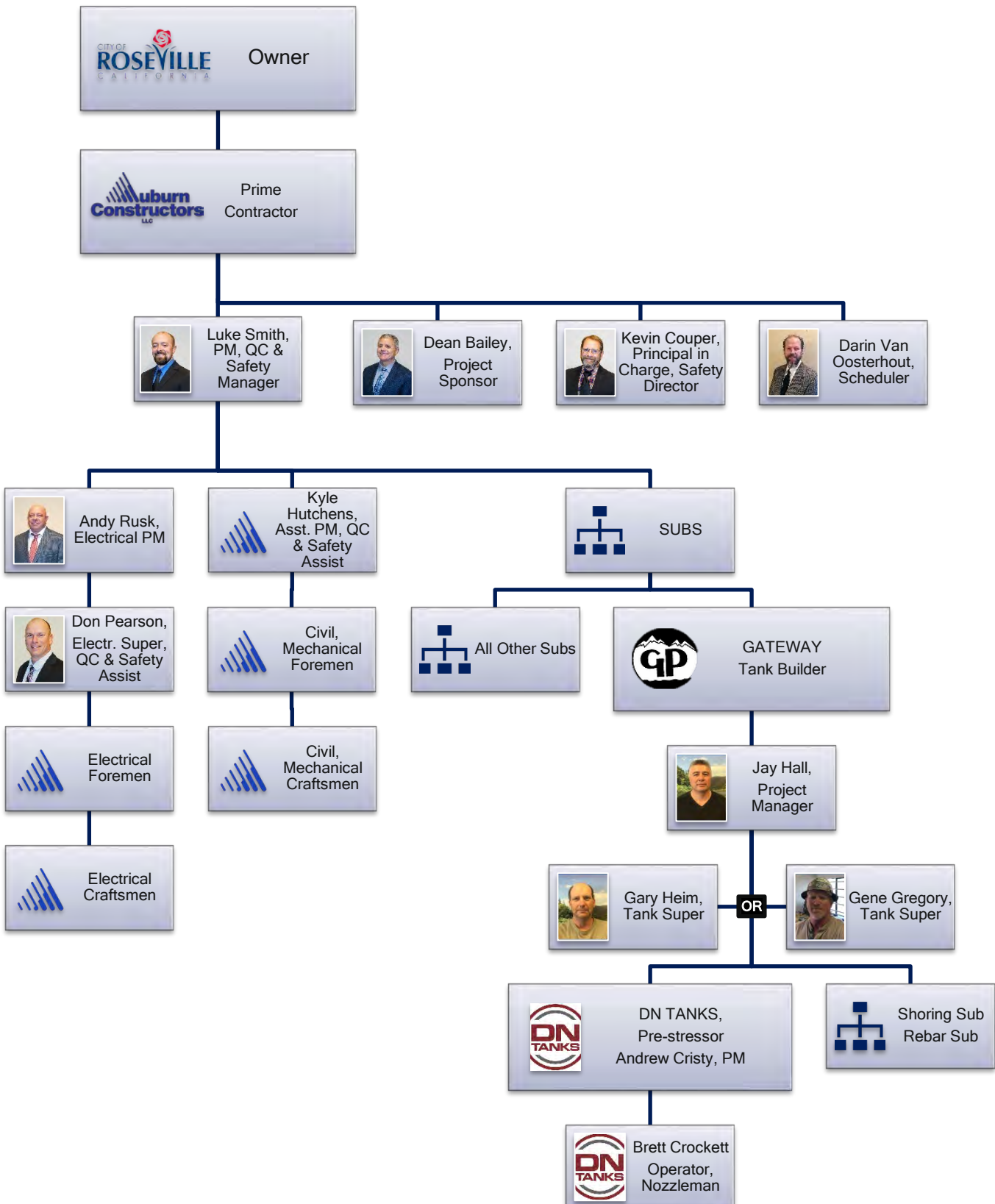


Gene Gregory, Tank Superintendent Option #2, GATEWAY - Mr. Gregory will be responsible for completing this project under budget and on time. His daily duties include planning, workforce management, coordination of subcontractors and deliveries, and interaction with representatives of the Owners and Engineer. Additionally, Gene ensures that employees are provided with proper equipment, PPE, training, and safe work procedures so they can make informed decisions and achieve our objective of no lost time incidents. Project availability is 100%.



Andrew Christy, Project Manager, DN Tanks - Mr. Christy is responsible for project management and construction operations for DN Tanks. His primary responsibility is profitable and timely project completion consistent with quality standards. He will provide support to field staff during the course of the project as necessary.

Brett Crockett, Pre-Stressing Superintendent, DN Tanks - Mr. Crockett is responsible for project completion within budget, in compliance with contract specifications, with high quality, and on time. He will consult with the PM and provide recommendations as necessary to improve project performance. Mr. Crockett will be DN Tanks' company representative at the job site and is in charge of all operations including DN Tanks' safety program. Mr. Crockett will act as the ACI Certified shotcrete nozzleman. Project availability is 100%.



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TAB F



**SUBCONTRACTOR LIST AND ASSURANCE OF
DESIGNATED PROJECT TEAM**

SUBCONTRACTOR LIST AND ASSURANCE OF DESIGNATED PROJECT TEAM

ATTACHMENT 7 – SUBCONTRACTOR LIST

Attachment 7 - STATEMENT OF SUBCONTRACTORS

Westside Tanks and Pump Station Project

Table 7-1: Statement of Subcontractors

Work to be done by Subcontractor	Percent of Total GMP	Name of Subcontractor	Place of Business (City and State)	CSLB Contractor License Number	DIR Registration Number, and Expiration Date
Prestressed Concrete Tanks	47%	Gateway Pacific Contractors, Inc.	Sacramento, CA	517988	1000000364
Earthwork	2.1%	Dewitt Brothers & Co. Inc.	Yuba City, CA	794030	1000006844
Masonry	0.6%	David Hall Masonry	Ripon, CA	379966	1000006976
Security System	0.6%	Johnson Controls, Inc.	Folsom, CA	022445	1000000593
Painting	1.9%	Mason Painting	Orangevale, CA	819987	1000008947
HVAC	0.06%	James Long Construction Services	Sacramento, CA	821827	1000000065
Chain Link Fence & Gates	0.5%	Pisor Fence Division, Inc.	Citrus Heights, CA	316128	1000003166
Landscaping	1.1%	Marina Landscape, Inc.	Lathrop, CA	492862	1000000079

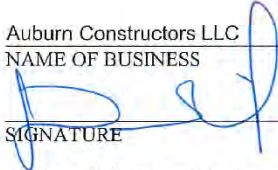
ATTACHMENT 8 – ASSURANCE OF DESIGNATED PROJECT TEAM

Attachment 8 – ASSURANCE OF DESIGNATED PROJECT TEAM

West Side Tanks and Pump Station Project

The undersigned Proposer certifies that the designated project team, including subcontractors, will be used for this Project. Departure or reassignment of, or substitution for, any member of the designated project team or subcontractors shall not be made without the prior written approval of the City.

Auburn Constructors LLC
NAME OF BUSINESS


SIGNATURE

J. Dean Bailey, President

NAME & TITLE, TYPED OR PRINTED

730 West Stadium Lane, Sacramento, CA 95834

MAILING ADDRESS

(916) 924-0344

TELEPHONE NUMBER

dbailey@auburnconstructors.com

EMAIL

****END OF ATTACHMENT 8****

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TAB H



SAFETY PROGRAM AND
RECORDS

SAFETY PROGRAM AND RECORDS

AUBURN believes that our people are our most valuable asset and anyone visiting or working at an AUBURN project must be kept safe from the intrinsic danger of a construction site. As such, safety is considered the Company's top priority. AUBURN commences with safety training when each person is hired. All new employees must pass a pre-employment drug and alcohol screen and sign up to the Drug & Alcohol Prevention Policy as a condition of employment. All new employees are thoroughly trained in safe work practices as it pertains to their respective work assignments. In the event of any accident causing personal injury or property damage, all individuals involved are subjected to additional drug and alcohol testing. Any violation of the Drug & Alcohol Prevention Policy is grounds for immediate discharge.



Figure 14: Auburn crews installing tank piping on a steel PW storage tank for Harrah's NorCal casino.

Safety is the key consideration when activities are planned, and our subcontractors are required to follow strict safety protocols as well. AUBURN believes its strict attitude towards safety is the reason the company has an excellent safety record and **has never received an OSHA citation** since the founding of the company in 1990 despite several OSHA visits over the years. More important than a good safety record; we want all employees to retire in good health with no injuries along the way.

Kevin Couper is the Company Safety Director and coordinates all required safety training and compliance. Luke Smith will be responsible for conducting weekly safety meetings, site inspections, subcontractor safety and all PPE compliance. Both Mr. Couper's and Mr. Smith's resumes are attached in the Appendix. An electronic copy of our company Safety Program has been provided on the thumb drives provided with this proposal.

AUBURN's Workers Compensation Insurance Carrier contact information is as follows:

The Hartford
12009 Foundation Place
Rancho Cordova, CA 95762
Tessa Lopes, (916) 294-1368

AUBURN SAFETY POLICY STATEMENT

The Occupational Safety and Health Act of 1970 clearly states our common goal of safe and healthful working conditions. Safety and health of the employees of **AUBURN** must be part of every operation. Without question, this is the responsibility of everyone at any and all levels.

It is our intent to comply with all laws. To do this, we must constantly be aware of conditions in all work areas that can produce injuries. No employee of this company is required to work at a job he/she knows is not safe or healthful. Your cooperation in the detection of hazards and, in turn, controlling or eliminating them, is a condition of your employment. Inform your supervisor immediately of any situation beyond your ability or authority to correct.

AUBURN will maintain a safety and health program conforming to or exceeding the best practices and standards of this industry. To be successful, such a program must embody proper attitudes toward injury and illness prevention on the part of supervisors and employees. It also requires cooperation in all safety and health matters, not only between supervisor and employee, but also between each employee and his/her co-worker. Only through such a cooperative effort, can a safety program in the best interest of all be established and preserved.



Figure 15: Auburn crew installs a 72" cement coated steel pipe manifold in Lathrop, CA.

The safety and health program is expected to reduce the number of injuries and illnesses to an absolute minimum. In order to accomplish this, the responsibilities for safety and health are shared by each and every one of us.

- ✓ **As the employer**, we accept responsibility for the guidance and implementation of the safety and health program and for providing the safeguards required to ensure safe conditions.
- ✓ **As the supervisor**, we accept responsibility for the development of proper attitudes toward safety and health within ourselves and those we supervise and for ensuring that all operations are performed with the utmost regard for the safety and health of all personnel involved, including ourselves.
- ✓ **As the employee**, we accept responsibility for the genuine and wholehearted operation of all aspects of the safety and health program, including compliance with all rules and regulations and for continuously practicing safety while performing our duties.

ATTACHMENT 9 – SAFETY RECORD: AUBURN CONSTRUCTORS

Attachment 9 – SAFETY RECORD

West Side Tanks and Pump Station Project

Contractor/Firm completing this report: Auburn Constructors LLC

List any Occupational Safety Health Administration (OSHA) citation for violations of OSHA Standards and Requirements within the past five (5) years. Please explain each violation and the resulting penalties, if any.

None.

Has CONTRACTOR earned any industry safety awards in the past five (5) years? If so, please provide an explanation of award(s).

AUBURN has received the STEP Safety Award from Associated Builders and Contractors in each of the past five years. STEP is a world-class safety management system that dramatically improves safety performance among participants.

Workers Compensation

Identify if your firm is self-insured for Workers Compensation Insurance in California. If self-insured provide the self-insurance number and attach a certification in the Appendix to the proposal.

Provide the name of your Worker's Comp. Insurance Carrier(s) as well as their address, agent's name and telephone number.

The Hartford

12009 Foundation Place, Rancho Cordova, CA 95762

Tessa Lopes, (916) 294-1368

Provide the Average Lost Workday Incident Rates (LWIR), Average Recordable Incident Rates (RIR) and most recent Experience Modification Rate (EMR) in the format presented below.

Contractor's Average Lost Workday Incident Rates (LWIR) and the Average Recordable Incident Rates (RIR) are requested for evaluation of the safety history relating to the CONTRACTOR's construction operations only. Home office staff labor hours and the corresponding injury and illness figures for home office staff shall not be included in the calculation of these rates. Similar information for parent

RFP – West Side Tanks and Pump Station
Attachment 9 – Safety Record

Page 61 of 98

companies, subsidiaries, or other company divisions not directly engaging in construction activities shall not be considered in these rate calculations. All data used in the calculations shall be specific to the company operation who will construct this Project if awarded the Contract.

Average Lost Workday Incident Rate (LWIR)

Calculate and provide your company's LWIR for the past three (3) complete years in the format presented below. The lost workday information is listed on your OSHA forms No. 300 and 300A and is available from your workers' compensation insurance carrier.

LWIR = Total number of lost workday incidents X 200,000 Total employee hours worked

Table 9-1: LWIR

Year	# of Lost Workday Incidents	Total Employee Hours Worked	Lost Workday Incident Rate
1-2018	0	146,184	0
2-2017	0	172,505	0
3-2016	0	154,357	0
3 Year Average	0	157,682	0

Average Recordable Incident Rate (RIR)

Calculate and provide your firm's RIR for the past three (3) complete years in the format presented below. The Incident Rate information is listed on your OSHA forms No. 300 and 300A and is available from your workers' compensation insurance carrier.

RIR = Total number of recordable incidents X 200,000 Total employee hours worked

Table 9-2: RIR

Year	# of Recordable Incidents	Total Employee Hours Worked	Recordable Incident Rate
1-2018	0	146,184	0
2-2017	3	172,505	3.48
3-2016	5	154,357	6.48
3 Year Average	2.67	157,682	3.38

The Experience Modification Rate (EMR)

The EMR is established by the CONTRACTOR's workers' compensation insurance carrier and is based on the CONTRACTOR's loss history. CONTRACTOR can provide either its Intrastate or Interstate EMR.

Identify either: ☒ Intrastate () Interstate: _____

Provide your firm's EMR for the last three (3) complete years (this information is provided by your worker's comp. insurance carrier) in the format presented below.

Table 9-3: EMR

Year	EMR
1-2018	.82
2-2017	.77
3-2016	.81
3 Year Average	.80

END OF ATTACHMENT 9**

ATTACHMENT 9 – SAFETY RECORD: GATEWAY PACIFIC

Attachment 9 – SAFETY RECORD

West Side Tanks and Pump Station Project

Contractor/Firm completing this report: Gateway Pacific Contractors, Inc.

List any Occupational Safety Health Administration (OSHA) citation for violations of OSHA Standards and Requirements within the past five (5) years. Please explain each violation and the resulting penalties, if any.

Please see attached.

Has CONTRACTOR earned any industry safety awards in the past five (5) years? If so, please provide an explanation of award(s).

Not applicable

Workers Compensation

Identify if your firm is self-insured for Workers Compensation Insurance in California. If self-insured provide the self-insurance number and attach a certification in the Appendix to the proposal.

Gateway Pacific is not self-insured.

Provide the name of your Worker's Comp. Insurance Carrier(s) as well as their address, agent's name and telephone number.

<u>Zurich American Insurance Company</u>	<u>Agency: Marsh & McLennan Agency LLC</u>
<u>1299 Zurich Way</u>	<u>P.O. Box 85638</u>
<u>Schaumburg, IL 60196</u>	<u>San Diego, CA 92186</u>
<u>Policy #WC339720200</u>	<u>Brenda Kennerly (858) 875-3085</u>

Provide the Average Lost Workday Incident Rates (LWIR), Average Recordable Incident Rates (RIR) and most recent Experience Modification Rate (EMR) in the format presented below.

Contractor's Average Lost Workday Incident Rates (LWIR) and the Average Recordable Incident Rates (RIR) are requested for evaluation of the safety history relating to the CONTRACTOR's construction operations only. Home office staff labor hours and the corresponding injury and illness figures for home office staff shall not be included in the calculation of these rates. Similar information for parent

RFP – West Side Tanks and Pump Station
Attachment 9 – Safety Record

Page 61 of 98

companies, subsidiaries, or other company divisions not directly engaging in construction activities shall not be considered in these rate calculations. All data used in the calculations shall be specific to the company operation who will construct this Project if awarded the Contract.

Average Lost Workday Incident Rate (LWIR)

Calculate and provide your company's LWIR for the past three (3) complete years in the format presented below. The lost workday information is listed on your OSHA forms No. 300 and 300A and is available from your workers' compensation insurance carrier.

LWIR = Total number of lost workday incidents X 200,000 Total employee hours worked

Table 9-1: LWIR

Year	# of Lost Workday Incidents	Total Employee Hours Worked	Lost Workday Incident Rate
1-2018	0	101,722	0
2-2017	0	77,957	0
3-2016	0	86,248	0
3 Year Average			0

Average Recordable Incident Rate (RIR)

Calculate and provide your firm's RIR for the past three (3) complete years in the format presented below. The Incident Rate information is listed on your OSHA forms No. 300 and 300A and is available from your workers' compensation insurance carrier.

RIR = Total number of recordable incidents X 200,000 Total employee hours worked

Table 9-2: RIR

Year	# of Recordable Incidents	Total Employee Hours Worked	Recordable Incident Rate
1-2018	1	1012722	1.97
2-2017	0	77,957	0
3-2016	0	86,248	0
3 Year Average			.656

The Experience Modification Rate (EMR)

The EMR is established by the CONTRACTOR's workers' compensation insurance carrier and is based on the CONTRACTOR's loss history. CONTRACTOR can provide either its Intrastate or Interstate EMR.

Identify either: () Intrastate (x) Interstate: Interstate

Provide your firm's EMR for the last three (3) complete years (this information is provided by your worker's comp. insurance carrier) in the format presented below.

Table 9-3: EMR

Year	EMR
1-2018	.83
2-2017	.87
3-2016	1.00
3 Year Average	.90

END OF ATTACHMENT 9**

GPC OSHA CITATIONS IN PAST 5 YEARS

INSPECTION #1183055

DATE: OCTOBER 10, 2016

WHERE: CITY OF MODESTO – DOWNSTREAM TIER 1 NORTH TANK 11 AND PUMP STATION

Citation 1 Item 1 – Type of Violation: General

On or around 10-10-16 Employer allowed subcontracted employee to work in an excavation with an angle steeper than one and one-half horizontal to one vertical (34 degrees measured from the horizontal)

Outcome: Corrected during inspection

Fee: \$900.00

INSPECTION #1269736

DATE: OCTOBER 12, 2017

WHERE: CITY OF SOUTH SAN FRANCISCO – S. SF. STATION 1 WATER TREATMENT PLANT UPGRADE

Citation 1 Item 1 – Type of Violation: General

Prior to and during the course of the inspection, including, but not limited to October 12, 2017, the employer failed to document safety inspections at the job site.

Outcome: Appealed and Reclassified to Notice in Lieu of Citation.

Fee: Penalty eliminated.

Citation 1 Item 2 – Type of Violation: General

Prior to and during the course of the inspection, including but not limited to October 12, 2017, the employer failed to establish a written Heat Illness Prevention Plan that contained all of the required elements.

Outcome: Revised Heat Illness Prevention Program has been submitted and awaits approval.

Fee: \$300.00

Citation 1 Item 3 – Type of Violation: General

Prior to and during the course of the inspection, including, but not limited to October 12, 2017, the employer failed to provide the OSHA Form 300 for the year 2017 to the Division.

Outcome: Appealed and Reclassified to Notice in Lieu of Citation

Fee: Penalty eliminated

ATTACHMENT 9: SAFETY RECORD
GATEWAY PACIFIC, Major Subcontractor - Tank Builder



Workers' Compensation Experience Rating Form

GATEWAY PACIFIC CONTRACTORS INC
FREEPORT VENTURE LLC
8055 FREEPORT BOULEVARD
SACRAMENTO CA 95832

Bureau Number 5-59-34-33-R Page 1 of 2
Effective Date 01/01/2017
Issue Date 10/18/2016
Experience Modification 87%
Insurer TRAVELERS PROP CAS CO OF AM
Insurer Group TRAVELERS GRP #2
Policy Number DTJUB365K759016
Issuing Office HARTFORD
Experience Period 04/01/2012 to 04/01/2015

5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE
5205 CONCRETE/CEMENT WORK-SIDEWALKS-HIGH WAGE
5213 CONCRETE CONSTRUCTION
5403 CARPENTRY-LOW WAGE
5432 CARPENTRY-HIGH WAGE
5606 CONTRACTORS-EXECUTIVE LEVEL SUPERVISORS
6218 GRADING LAND-LOW WAGE
6220 GRADING LAND-HIGH WAGE
#5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE

Summary of Payroll and Expected Losses

Summary of Claims and Actual Losses Primary Threshold: 24,000

Class Code	Payroll	Expected Loss Rate per \$100 payroll	Expected Losses	D-Ratio	Expected Primary Losses	Expected Excess Losses	Claim Number	Injury Type / # of Claims	Open / Closed	Actual Losses	Actual Primary Losses	Actual Excess Losses
Insurer: 697 Policy Period : 01/01/2015 to 01/01/2016												
5187	42,023	1.45	609	0.349	213	396						
5205	1,770,410	1.89	33,461	0.339	11,343	22,118						
5432	24,866	2.21	550	0.335	184	366						
5606	957,917	0.33	3,161	0.397	1,255	1,906						
6220	68,330	1.59	1,086	0.309	336	750						
8742	223,464	0.16	358	0.441	158	200						
8810	305,340	0.15	458	0.488	224	234						
9015	92,280	2.43	2,242	0.435	975	1,267						
Totals	3,484,630		41,925		14,688	27,237	Totals	0		0	0	0

Insurer: 697 Policy Period : 01/01/2014 to 01/01/2015

5140	2,640	1.01	27	0.354	10	17	E1A0698	04	Closed	85,318	24,000	61,318
5187	73,481	1.45	1,065	0.349	372	693	EZG9349	06	Closed	3,005	3,005	0
5205	1,787,862	1.89	33,791	0.339	11,455	22,336	UNDER \$2,001	1		69	69	
5213	43,688	2.51	1,097	0.353	387	710						
5432	14,229	2.21	314	0.335	105	209						
5606	644,545	0.33	2,127	0.397	844	1,283						
6220	143,458	1.59	2,281	0.309	705	1,576						
8742	218,400	0.16	349	0.441	154	195						
8810	439,027	0.15	659	0.488	322	337						
9015	92,085	2.43	2,238	0.435	974	1,264						
Totals	3,459,415		43,948		15,328	28,620	Totals	3		88,392	27,074	61,318

Insurer: 697 Policy Period : 01/01/2013 to 01/01/2014

5187	83,140	1.45	1,206	0.349	421	785						
5205	1,417,927	1.89	26,799	0.339	9,085	17,714						
5213	35,921	2.51	902	0.353	318	584						
5432	15,885	2.21	351	0.335	118	233						
5606	678,920	0.33	2,240	0.397	889	1,351						
6220	293,892	1.59	4,673	0.309	1,444	3,229						
8742	213,200	0.16	341	0.441	150	191						
8810	428,838	0.15	643	0.488	314	329						
Totals	3,167,723		37,155		12,739	24,416	Totals	0		0	0	0

* Not Physically Inspected: # If Any; F = Federal
(S) Subrogation; (J) Joint Claim; (P) Partially Fraudulent, if any
CNR5563396

Workers' Compensation Insurance Rating Bureau of California

10/17/2016

ATTACHMENT 9: SAFETY RECORD
GATEWAY PACIFIC, Major Subcontractor - Tank Builder



Workers' Compensation Experience Rating Form

GATEWAY PACIFIC CONTRACTORS INC
FREEPORT VENTURE LLC
8055 FREEPORT BOULEVARD
SACRAMENTO CA 95832

5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE
5205 CONCRETE/CEMENT WORK-SIDEWALKS-HIGH WAGE
5213 CONCRETE CONSTRUCTION
5403 CARPENTRY-LOW WAGE
5432 CARPENTRY-HIGH WAGE
5806 CONTRACTORS-EXECUTIVE LEVEL SUPERVISORS
6218 GRADING LAND-LOW WAGE
6220 GRADING LAND-HIGH WAGE
#5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE

Bureau Number 5-59-34-33-R Page 2 of 2
Effective Date 01/01/2017
Issue Date 10/18/2016
Experience Modification 87%
Insurer TRAVELERS PROP CAS CO OF AM
Insurer Group TRAVELERS GRP #2
Policy Number DTJUB365K759016
Issuing Office HARTFORD
Experience Period 04/01/2012 to 04/01/2015

	Expected Losses	Expected Primary Losses	Expected Excess Losses	# of Claims	Actual Losses	Actual Primary Losses	Actual Excess Losses
Experience Period Totals	A 123,028	B 42,755	C 80,273	3	D 88,392	E 27,074	F 61,318

Credible Primary Loss				Credible Excess Loss					
$\left[\left(\frac{\text{Total Actual Primary Losses (D)}}{\text{Total Expected Primary Losses (B)}} \times \text{Credibility Primary} \right) + \left(\frac{\text{Total Expected Primary Losses (B)}}{\text{Total Expected Primary Losses (B)}} \times (1 - \text{Credibility Primary}) \right) \right]$		$\left[\left(\frac{\text{Total Actual Excess Losses (F)}}{\text{Total Expected Excess Losses (C)}} \times \text{Credibility Excess} \right) + \left(\frac{\text{Total Expected Excess Losses (C)}}{\text{Total Expected Excess Losses (C)}} \times (1 - \text{Credibility Excess}) \right) \right]$		$\frac{\text{Total Adjusted Losses}}{\text{Total Expected Losses (A)}}$					
D 27,074	1.00	B 42,755	0.00	E 61,318	0.00	C 80,273	1.00	107,347	A 123,028
Loss-Free Rating: 65%								= Experience Modification 87%	

* Not Physically Inspected; # If Any; F = Federal
(S) Subrogation; (J) Joint Claims; (P) Partially Fraudulent, if any
CN#RS563396

Workers' Compensation Insurance Rating Bureau of California

10/17/2016

ATTACHMENT 9: SAFETY RECORD
GATEWAY PACIFIC, Major Subcontractor - Tank Builder



Workers' Compensation Experience Rating Form

GATEWAY PACIFIC CONTRACTORS INC
FREEPORT VENTURE LLC
8055 FREEPORT BOULEVARD
SACRAMENTO CA 95832

Bureau Number 5-59-34-33-R Page 1 of 2
Effective Date 01/01/2018
Issue Date 09/14/2017
Experience Modification 83%
Insurer TRAVELERS PROP CAS CO OF AM
Insurer Group TRAVELERS GRP #2
Policy Number DTJUB365K759017
Issuing Office HARTFORD
Experience Period 04/01/2013 to 04/01/2016

5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE
5205 CONCRETE/CEMENT WORK-SIDEWALKS-HIGH WAGE
5213 CONCRETE CONSTRUCTION
5403 CARPENTRY-LOW WAGE
5432 CARPENTRY-HIGH WAGE
5606 CONTRACTORS-EXECUTIVE LEVEL SUPERVISORS
8218 GRADING LAND-LOW WAGE
6220 GRADING LAND-HIGH WAGE
#5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE

Summary of Payroll and Expected Losses

Summary of Claims and Actual Losses Primary Threshold: 26,000

Class Code	Payroll	Expected Loss Rate per \$100 payroll	Expected Losses	D-Ratio	Expected Primary Losses	Expected Excess Losses
Insurer: 697 Policy Period : 01/01/2016 to 01/01/2017						
5213	1,880,370	2.66	50,018	0.374	18,707	31,311
5606	1,071,607	0.38	3,858	0.405	1,562	2,296
8742	249,172	0.15	374	0.468	175	199
8810	305,784	0.13	398	0.510	203	195
9015	94,606	2.76	2,611	0.454	1,185	1,426
Totals	3,601,539		57,259		21,832	35,427

Claim Number	Injury Type / # of Claims	Open / Closed	Actual Losses	Actual Primary Losses	Actual Excess Losses
Totals					
	0		0	0	0

Insurer: 697 Policy Period : 01/01/2015 to 01/01/2016						
5187	42,023	1.53	643	0.371	239	404
5205	1,770,410	1.94	34,346	0.353	12,124	22,222
5432	24,866	2.23	555	0.363	201	354
5606	957,917	0.36	3,449	0.405	1,397	2,052
6220	68,330	1.67	1,141	0.320	365	776
8742	223,464	0.15	335	0.468	157	178
8810	305,340	0.13	397	0.510	202	195
9015	92,280	2.76	2,547	0.454	1,156	1,391
Totals	3,484,630		43,413		15,841	27,572

Totals					
	0		0	0	0

Insurer: 697 Policy Period : 01/01/2014 to 01/01/2015						
5140	2,640	0.92	24	0.360	9	15
5187	73,481	1.53	1,124	0.371	417	707
5205	1,787,862	1.94	34,685	0.353	12,244	22,441
5213	43,688	2.66	1,162	0.374	435	727
5432	14,229	2.23	317	0.363	115	202
5606	644,545	0.36	2,320	0.405	940	1,380
6220	143,458	1.67	2,396	0.320	767	1,629
8742	218,400	0.15	328	0.468	154	174
8810	438,027	0.13	571	0.510	291	280
9015	92,085	2.76	2,542	0.454	1,154	1,388
Totals	3,459,415		45,469		16,526	28,943

E1A0698	04	Closed	85,318	26,000	59,318
EZG9349	06	Closed	3,005	3,005	0
UNDER \$2,001	1		69	69	
Totals	3		88,392	29,074	59,318

* Not: Physically Inspected # If Any: F = Federal
(S) Subrogation; (J) Joint Claim; (P) Partially Fraudulent, if any
CN#RS030067

Workers' Compensation Insurance Rating Bureau of California®

09/13/2017

ATTACHMENT 9: SAFETY RECORD
GATEWAY PACIFIC, Major Subcontractor - Tank Builder



Workers' Compensation Experience Rating Form

GATEWAY PACIFIC CONTRACTORS INC
FREEPORT VENTURE LLC
8055 FREEPORT BOULEVARD
SACRAMENTO CA 95832

Bureau Number 5-59-34-33-R Page 2 of 2
Effective Date 01/01/2018
Issue Date 09/14/2017
Experience Modification 83%
Insurer TRAVELERS PROP CAS CO OF AM
Insurer Group TRAVELERS GRP #2
Policy Number DTJUB365K759017
Issuing Office HARTFORD
Experience Period 04/01/2013 to 04/01/2016

5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE
5205 CONCRETE/CEMENT WORK-SIDEWALKS-HIGH WAGE
5213 CONCRETE CONSTRUCTION
5403 CARPENTRY-LOW WAGE
5432 CARPENTRY-HIGH WAGE
5606 CONTRACTORS-EXECUTIVE LEVEL SUPERVISORS
6218 GRADING LAND-LOW WAGE
6220 GRADING LAND-HIGH WAGE
#5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE

Experience Period Totals	Federal Losses	Expected Primary Losses	Expected Excess Losses	# of Claims	Actual Losses	Actual Primary Losses	Actual Excess Losses
	A 146,141	B 54,199	C 91,942	3	88,392	D 29,074	E 59,318

Credible Primary Loss				Credible Excess Loss															
$\left[\left(\frac{\text{Total Actual Primary Losses (D)} \times \text{Credibility Primary}}{\text{Credibility Primary}} \right) + \left(\frac{\text{Total Expected Primary Losses (B)} \times (1 - \text{Credibility Primary})}{(1 - \text{Credibility Primary})} \right) \right]$				$\left[\left(\frac{\text{Total Actual Excess Losses (E)} \times \text{Credibility Excess}}{\text{Credibility Excess}} \right) + \left(\frac{\text{Total Expected Excess Losses (C)} \times (1 - \text{Credibility Excess})}{(1 - \text{Credibility Excess})} \right) \right]$				$\frac{\text{Total Adjusted Losses}}{\text{Total Expected Losses (A)}}$											
D	29,074	1.00		B	54,199	0.00		E	59,318	0.00		C	91,942	1.00			121,016	A	146,141
Loss-Free Rating: 63%															= Experience Modification		83%		

* No: Physically Inspected; # 1: Any; F - Federal
(S) Subrogation; (J) Joint Claim; (P) Partially Fraudulent, if any
CN#RS030067

Workers' Compensation Insurance Rating Bureau of California

09/13/2017

ATTACHMENT 9: SAFETY RECORD
GATEWAY PACIFIC, Major Subcontractor - Tank Builder



Workers' Compensation Experience Rating Form

GATEWAY PACIFIC CONTRACTORS INC
FREEPORT VENTURE LLC
8055 FREEPORT BOULEVARD
SACRAMENTO CA 95832

Bureau Number 5-59-34-33-R Page 1 of 2
Effective Date 01/01/2018
Issue Date 09/14/2017
Experience Modification 83%
Insurer TRAVELERS PROP CAS CO OF AM
Insurer Group TRAVELERS GRP #2
Policy Number DTJUB365K759017
Issuing Office HARTFORD
Experience Period 04/01/2013 to 04/01/2016

5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE
5205 CONCRETE/CEMENT WORK-SIDEWALKS-HIGH WAGE
5213 CONCRETE CONSTRUCTION
5403 CARPENTRY-LOW WAGE
5432 CARPENTRY-HIGH WAGE
5606 CONTRACTORS-EXECUTIVE LEVEL SUPERVISORS
8218 GRADING LAND-LOW WAGE
6220 GRADING LAND-HIGH WAGE
#5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE

Summary of Payroll and Expected Losses

Summary of Claims and Actual Losses Primary Threshold: 26,000

Class Code	Payroll	Expected Loss Rate per \$100 payroll	Expected Losses	D-Ratio	Expected Primary Losses	Expected Excess Losses
Insurer: 697 Policy Period : 01/01/2016 to 01/01/2017						
5213	1,880,370	2.66	50,018	0.374	18,707	31,311
5606	1,071,607	0.38	3,858	0.405	1,562	2,296
8742	249,172	0.15	374	0.468	175	199
8810	305,784	0.13	398	0.510	203	195
9015	94,606	2.76	2,611	0.454	1,185	1,426
Totals	3,601,539		57,259		21,832	35,427

Claim Number	Injury Type / # of Claims	Open / Closed	Actual Losses	Actual Primary Losses	Actual Excess Losses
Totals					
	0		0	0	0

Insurer: 697 Policy Period : 01/01/2015 to 01/01/2016						
5187	42,023	1.53	643	0.371	239	404
5205	1,770,410	1.94	34,346	0.353	12,124	22,222
5432	24,866	2.23	555	0.363	201	354
5606	957,917	0.36	3,449	0.405	1,397	2,052
6220	68,330	1.67	1,141	0.320	365	776
8742	223,464	0.15	335	0.468	157	178
8810	305,340	0.13	397	0.510	202	195
9015	92,280	2.76	2,547	0.454	1,156	1,391
Totals	3,484,630		43,413		15,841	27,572

Totals					
	0		0	0	0

Insurer: 697 Policy Period : 01/01/2014 to 01/01/2015						
5140	2,640	0.92	24	0.360	9	15
5187	73,481	1.53	1,124	0.371	417	707
5205	1,787,862	1.94	34,685	0.353	12,244	22,441
5213	43,688	2.66	1,162	0.374	435	727
5432	14,229	2.23	317	0.363	115	202
5606	644,545	0.36	2,320	0.405	940	1,380
6220	143,458	1.67	2,396	0.320	767	1,629
8742	218,400	0.15	328	0.468	154	174
8810	438,027	0.13	571	0.510	291	280
9015	92,085	2.76	2,542	0.454	1,154	1,388
Totals	3,459,415		45,469		16,526	28,943

E1A0698	04	Closed	85,318	26,000	59,318
EZG9349	06	Closed	3,005	3,005	0
UNDER \$2,001	1		69	69	
Totals	3		88,392	29,074	59,318

* Not: Physically Inspected # If Any: F = Federal
(S) Subrogation; (J) Joint Claim; (P) Partially Fraudulent, if any
CN#RS030067

Workers' Compensation Insurance Rating Bureau of California®

09/13/2017

ATTACHMENT 9: SAFETY RECORD
GATEWAY PACIFIC, Major Subcontractor - Tank Builder



Workers' Compensation Experience Rating Form

GATEWAY PACIFIC CONTRACTORS INC
FREEPORT VENTURE LLC
8055 FREEPORT BOULEVARD
SACRAMENTO CA 95832

5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE
5205 CONCRETE/CEMENT WORK-SIDEWALKS-HIGH WAGE
5213 CONCRETE CONSTRUCTION
5403 CARPENTRY-LOW WAGE
5432 CARPENTRY-HIGH WAGE
5606 CONTRACTORS-EXECUTIVE LEVEL SUPERVISORS
8218 GRADING LAND-LOW WAGE
8220 GRADING LAND-HIGH WAGE
#5201 CONCRETE/CEMENT WORK-SIDEWALKS-LOW WAGE

Bureau Number 5-59-34-33-R Page 2 of 2
Effective Date 01/01/2018
Issue Date 09/14/2017
Experience Modification 83%
Insurer TRAVELERS PROP CAS CO OF AM
Insurer Group TRAVELERS GRP #2
Policy Number DTJUB365K759017
Issuing Office HARTFORD
Experience Period 04/01/2013 to 04/01/2016

Experience Period Totals	Federal Losses	Expected Primary Losses	Expected Excess Losses	# of Claims	Actual Losses	Actual Primary Losses	Actual Excess Losses
	A 146,141	B 54,199	C 91,942	3	88,392	D 29,074	E 59,318

Credible Primary Loss				Credible Excess Loss															
$\left[\left(\frac{\text{Total Actual Primary Losses (D)}}{\text{Credibility Primary}} \right) + \left(\frac{\text{Total Expected Primary Losses (B)}}{(1 - \text{Credibility Primary})} \right) \right]$				$\left[\left(\frac{\text{Total Actual Excess Losses (E)}}{\text{Credibility Excess}} \right) + \left(\frac{\text{Total Expected Excess Losses (C)}}{(1 - \text{Credibility Excess})} \right) \right]$				Total Adjusted Losses	Total Expected Losses (A)										
D	29,074	1.00		B	54,199	0.00		E	59,318	0.00		C	91,942	1.00			121,016	A	146,141
Loss-Free Rating: 63%															= Experience Modification		83%		

* No: Physically Inspected; # 1: Any; F - Federal
(S) Subrogation; (J) Joint Claim; (P) Partially Fraudulent, if any
CN#RS030067

Workers' Compensation Insurance Rating Bureau of California

09/13/2017



Explanation of Your Experience Rating Form

Following is a brief explanation of your Experience Rating Form. The WCIRB's website (www.wcirb.com) contains additional information about the calculation of your experience modification. See the *Employers* information box on the home page. Electronic versions of the *California Workers' Compensation Experience Rating Plan - 1995 (ERP)* and the *California Workers' Compensation Uniform Statistical Reporting Plan - 1995 (USRP)* are available on the WCIRB's website on the "Manuals and Plans" tab under "Publications and Filings." These publications are part of the California Insurance Commissioner's regulations and govern experience rating and the reporting of payroll and losses by insurers, respectively.

About Experience Rating

Experience rating provides employers a direct financial incentive to reduce the number of work-related accidents and helps to objectively distribute the cost of workers' compensation insurance among employers assigned to the same industry classification. The USRP contains approximately 500 standard classifications used to describe all types of California businesses. A business that is not specifically described is assigned by analogy to a classification that is most similar in terms of processes and hazards.

Businesses assigned to your standard industry classification are relatively similar to your business; however, there are differences and those differences can have an impact on workers' compensation claims costs. To address these variations and encourage workplace safety, experience rating adjusts the premium you pay either upward or downward based on a comparison of your company's history of payroll and claims (collectively referred to as your "experience") to what is expected for businesses of similar size within the same industry classification. This comparison results in your **experience modification**.

An experience modification greater than 100 results from less favorable loss experience compared to the average of other similar businesses. An experience modification less than 100 results from more favorable loss experience. The data used to calculate your experience modification and the experience modification formula are shown on the Experience Rating Form (often referred to as a "worksheet" or "rate sheet").

Since the experience modification is intended to reflect differences in anticipated *future claims* costs, the formula reflects several standard "actuarial" adjustments so that past loss experience is used in a way that is predictive of future loss levels. For those employers who have sufficient historical experience to qualify, experience rating is mandatory and used by all insurers.

Data Used for Experience Rating and the Experience Period

The data used to calculate your experience modification is determined by your company's rating effective date, which generally is the inception date, or start date, of your policies. For example, if your policies always start on January 1, your rating effective date would be January 1.

The rating effective date determines the **experience period**, which is a three-year period beginning four years and nine months prior to your rating effective date and terminating one year and nine months prior to the rating effective date. With few exceptions, the payroll and losses arising from all policies incepting within the experience period are used in the calculation of your experience modification.

The payroll and loss information used in the experience rating calculation are reported by your insurer to the WCIRB on *unit statistical reports* in accordance with the USRP. Factors used in the experience rating calculation, such as the Expected Loss Rates, D-Ratios and Credibility (Primary and Excess), are developed by the WCIRB, approved by the Insurance Commissioner as part of the ERP and based on analysis of statewide data.

Experience Rating Form

The Experience Rating Form provides detailed information about the calculation of your experience modification, including the payroll reported by your insurer for each applicable classification and the claim experience reported by your insurer and used in the experience modification calculation. Your company name, address and other business names that are included under your insurance policy are captured from the policy information page. Some information may not be shown due to space limitations.

Terms Used on the Form

Actual Excess Losses ("E") – The experience modification calculation splits the Actual Losses for each claim into two components – a primary amount called Actual Primary Losses and an excess amount called Actual Excess Losses. The Actual Excess Losses are the amount of each claim shown on the form that is above the Primary Threshold, if any.

Actual Losses – The total medical and indemnity paid plus estimated future payments on a claim reported to the WCIRB by your insurer as of the latest required claim valuation date. In order to mitigate the impact of a single claim on your experience modification, the amount of a single loss is limited to \$175,000 in the experience rating calculation. The total of the Actual Losses is shown for informational purposes and is not used in the experience rating calculation.

Actual Primary Losses ("D") – Primary losses represent the more predictable and controllable portion of a claim. Actual Primary Losses are the reported incurred cost of the claim limited to the Primary Threshold applicable to your experience modification. The total of all Actual Primary Losses is used in the experience rating calculation. The Primary Threshold applicable to your experience modification is based on your total expected losses for the experience period and is in Table II of the ERP.

Bureau Number – A unique file number assigned by the WCIRB to your company.

Claim Number – The claim number reported to the WCIRB by your insurer.

Class Code – The code number of the standard classification applicable to the Payroll shown on the form and which determines the Expected Loss Rate and D-Ratio to be used in the experience rating calculation.

Credibility Excess – The weight given to your total Actual Excess Losses in the experience modification calculation. It is a function of your total Expected Losses and is in Table II of the ERP.

Credibility Primary – The weight given to your total Actual Primary Losses in the experience modification calculation. It is a function of your total Expected Losses and is in Table II of the ERP.

D-Ratio – The ratio used to split Expected Losses into "Primary" and "Excess" amounts. This split accounts for differences in the average severity of claims by classification. D-ratios are in Table I of the ERP.

Effective Date – The date your experience modification applies to your policy.

Expected Excess Losses ("C") – The difference between your Expected Losses and your Expected Primary Losses. The total of all Expected Excess Losses is used in the experience rating calculation.

Expected Loss Rate (ELR) – The average rate of losses per \$100 of payroll that is expected for a standard classification during the experience period. ELRs are in Table I of the ERP.

Expected Losses ("A") – The amount of losses expected to arise for businesses of your size and industry classification(s) during the experience period. Expected Losses are determined by multiplying your total payroll for each classification by the corresponding Expected Loss Rate and then dividing by 100. The total of all Expected Losses is used in the experience rating calculation.

Expected Primary Losses ("B") – Determined by multiplying your Expected Losses for each classification by the D-Ratio for that classification. The total of all Expected Primary Losses is used in the experience rating calculation.

Identifying Information in Upper Left Corner – The employer name, address and classifications that apply to your California operations according to WCIRB records may be displayed; however, in some cases, some of this information may not be shown or may or may not be complete due to space constraints.

Injury Type / # of Claims – On individually-listed claims, this provides some detail about the type of injury associated with a claim. Injury types include Death (01), Permanent Total (02), Permanent Partial Disability Rating 25% or Greater (03), Permanent Partial Disability Rating Less than 25% (04), Temporary Disability (05), Medical Only (06), or Compromised Death Claim (08). For claims shown as grouped, this provides the number of claims included in the group.

Insurer – A code used to identify the insurer that reported the payroll and claims data.

Issue Date – The date this Experience Rating Form was released.

Loss-Free Rating – Shown at the bottom of the Experience Rating Form is the experience modification that would have been calculated if \$0 (zero) actual losses were incurred during the experience period. This hypothetical rating calculation is provided for informational purposes only. Note that when there is only a single claim in the experience period, the experience modification is limited to be no higher than 25 points above the Loss-Free Rating.

Open/Closed – The claim status that is reported to the WCIRB.

Payroll – The payroll reported to the WCIRB by your insurer.

Policy Period – The effective date and expiration or cancellation date of the policy to which the payroll and claims apply.

Primary Threshold – Based on the total expected losses for the experience period and is in Table II of the ERP.

Workers' Compensation Insurance Rating Bureau of California
1221 Broadway, Suite 900
Oakland, CA 94612
888.229.2472
www.wcirb.com

ATTACHMENT 9 – SAFETY RECORD: DN TANKS

Attachment 9 – SAFETY RECORD

West Side Tanks and Pump Station Project

Contractor/Firm completing this report: DN Tanks

List any Occupational Safety Health Administration (OSHA) citation for violations of OSHA Standards and Requirements within the past five (5) years. Please explain each violation and the resulting penalties, if any.

See attachment

Has CONTRACTOR earned any industry safety awards in the past five (5) years? If so, please provide an explanation of award(s).

No

Workers Compensation

Identify if your firm is self-insured for Workers Compensation Insurance in California. If self-insured provide the self-insurance number and attach a certification in the Appendix to the proposal.

No

Provide the name of your Worker's Comp. Insurance Carrier(s) as well as their address, agent's name and telephone number.

Carrier: Zurich. 1400 American Lane, Schaumburg, IL 60196

Agent: Marsh & McLennan Agency LLC. (800) 321-4696

Provide the Average Lost Workday Incident Rates (LWIR), Average Recordable Incident Rates (RIR) and most recent Experience Modification Rate (EMR) in the format presented below.

Contractor's Average Lost Workday Incident Rates (LWIR) and the Average Recordable Incident Rates (RIR) are requested for evaluation of the safety history relating to the CONTRACTOR's construction operations only. Home office staff labor hours and the corresponding injury and illness figures for home office staff shall not be included in the calculation of these rates. Similar information for parent

RFP – West Side Tanks and Pump Station
Attachment 9 – Safety Record

Page 61 of 98

companies, subsidiaries, or other company divisions not directly engaging in construction activities shall not be considered in these rate calculations. All data used in the calculations shall be specific to the company operation who will construct this Project if awarded the Contract.

Average Lost Workday Incident Rate (LWIR)

Calculate and provide your company's LWIR for the past three (3) complete years in the format presented below. The lost workday information is listed on your OSHA forms No. 300 and 300A and is available from your workers' compensation insurance carrier.

LWIR = Total number of lost workday incidents X 200,000 Total employee hours worked

Table 9-1: LWIR

Year	# of Lost Workday Incidents	Total Employee Hours Worked	Lost Workday Incident Rate
1-2018	2	873,284	0.46
2-2017	3	864,753	0.69
3-2016	1	879,312	0.23
3 Year Average	2	872,450	0.46

Average Recordable Incident Rate (RIR)

Calculate and provide your firm's RIR for the past three (3) complete years in the format presented below. The Incident Rate information is listed on your OSHA forms No. 300 and 300A and is available from your workers' compensation insurance carrier.

RIR = Total number of recordable incidents X 200,000 Total employee hours worked

Table 9-2: RIR

Year	# of Recordable Incidents	Total Employee Hours Worked	Recordable Incident Rate
1-2018	13	873,284	2.98
2-2017	18	864,753	4.16
3-2016	15	879,312	3.41
3 Year Average	15	872,449	3.52

The Experience Modification Rate (EMR)

The EMR is established by the CONTRACTOR's workers' compensation insurance carrier and is based on the CONTRACTOR's loss history. CONTRACTOR can provide either its Intrastate or Interstate EMR.

ATTACHMENT 9: SAFETY RECORD
DN TANKS, Key Subcontractor - Specialty Tank Pre-Stressor

Identify either: () Intrastate (x) Interstate: _____

Provide your firm's EMR for the last three (3) complete years (this information is provided by your worker's comp. insurance carrier) in the format presented below.

Table 9-3: EMR

Year	EMR
1-2018	0.66
2-2017	0.69
3-2016	0.89
3 Year Average	0.75

END OF ATTACHMENT 9**

ATTACHMENT 9: SAFETY RECORD

DN TANKS, Key Subcontractor - Specialty Tank Pre-Stressor

Summary of OSHA Citations

Date	Company	Inspection #	Location	Department	Citation	Violation Type	Abated?	Penalty	Corrective Action
10/31/2016	DN Tanks	1192636	Stockbridge, MA	OSHA	Failure to provide ladder	Serious: Reduced	Abated	\$ 2,850.00	We worked with OSHA to identify a solution, and ultimately OSHA determined that we were in compliance.
9/16/2019	DN Tanks	1433192	Baltimore, MD	MOSH	No eye wash station within immediate work area	Serious	Abated/ Being contested	\$ 2,250.00	Eye wash implemented
9/16/2019	DN Tanks	1433192	Baltimore, MD	MOSH	Hazardous chemical container not labeled	Other Than Serious	Abated/ Being contested	\$ -	Container was labeled
9/16/2019	DN Tanks	1433192	Baltimore, MD	MOSH	SDS not readily available (electronic only) for hazardous chemicals	Other Than Serious	Abated/ Being contested	\$ -	SDS was printed

Date: 12/20/2019

Authorized Signature:



DN Tanks
Accident Prevention Safety Program
Corporate Safety Statement

DN Tanks is committed to the goal of having a work environment for all employees that is free of any unsafe acts, behaviors, work practices, or conditions, and is an environment that complies with all applicable safety and health regulations. To do this, employees must be aware of conditions in all work areas that can cause injuries or accidents to persons or property. No employee is required to work on a task that he or she recognizes as unsafe or unhealthy.

The objective of the DN Tanks Accident Prevention Safety Program is to create a culture that does not tolerate unsafe acts or conditions, resulting in the reduction of the number of injuries and illnesses, not merely in keeping with, but surpassing, the best experience of operations within the industry.

DN Tanks recognizes that the responsibilities for safety and health are shared as follows

- **DN Tanks** management accepts the responsibility for leadership of its Accident Prevention Safety Program, consistent implementation of its Accident Prevention Safety Program, for its effectiveness and improvement, and for providing the safeguards required to ensure safe working conditions. DN Tanks is committed to complying with applicable health and safety requirements and providing training to our employees, to ensure awareness, understanding, and responsibility of this important effort.
- **Supervisors and Managers** bear responsibility for the health of each employee under their direction and their individual commitment to eliminating potential hazards. Supervisors and Managers are responsible for developing the proper attitude toward safety and health for themselves and those they supervise, and for ensuring that all operations are performed with the utmost regard for the safety and health of all personnel.
- **Employees** are responsible for their wholehearted and genuine cooperation in all aspects of the safety and health program. These responsibilities include their compliance with all rules and regulations, consistently practicing safety while performing their job function, and reporting any unsafe work conditions, acts, or behaviors to their supervisors immediately.

Rev. 1-1-19

DN Tanks
Accident Prevention Safety Program
Corporate Safety Statement

Safety requires a sustained conscious effort and is regarded as the responsibility of each and every one of our employees.

DN Tanks recognizes that there are three components of any successful project:

Safety *Quality* *Production*

During the planning and execution of the work, these three elements shall share equal weight; however, it should be clear that the personal safety and health of each employee of DN Tanks, its sub-contractors and their employees, and any other persons doing business with DN Tanks or visiting a DN Tanks site or facility is of primary importance; "Their safety is our moral obligation." Prevention of injuries and illnesses is of such consequence that it will be given precedence over productivity and quality whenever necessary.

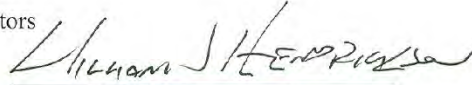
Our Employees are our most important asset—

their safety, our greatest responsibility.

DN Tanks Board of Directors

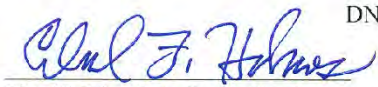

Charles F. Crowley, President & CEO


David R. Gourley, Executive VP - Operations


William J. Hendrickson, Executive VP, Engineering & R&D

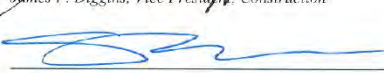

William F. Crowley, Executive VP, Sales & Marketing

DN Tanks Construction Management

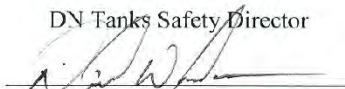

Edward F. Holmes, Senior Vice President, Construction


Robert J. Walsh, Vice President, Construction

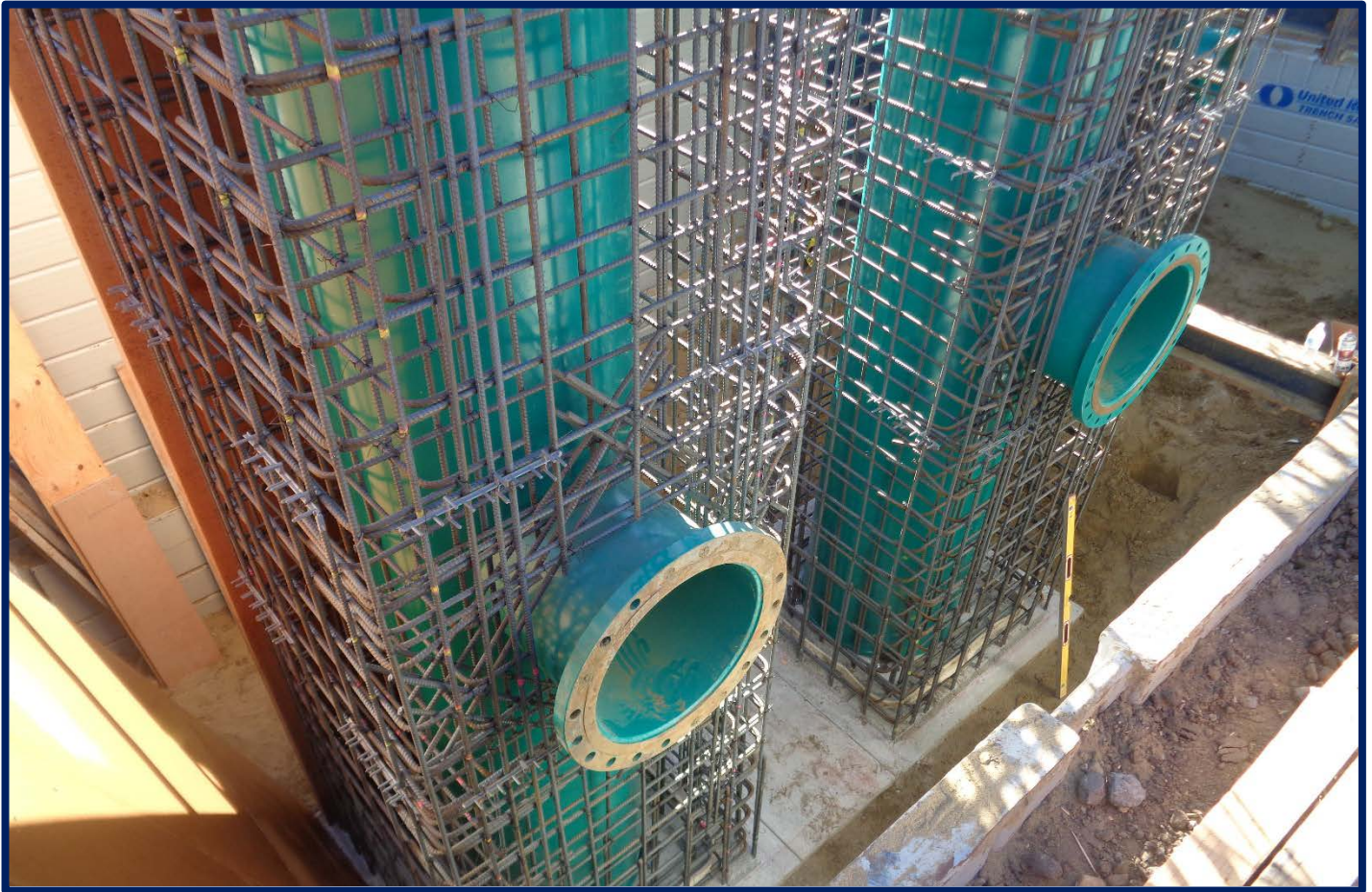

James P. Diggins, Vice President, Construction


Shelly Anderson, Construction Manager

DN Tanks Safety Director


Daniel G. Wallace, Safety Director

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TAB I



QUALITY CONTROL PROGRAM

QUALITY CONTROL PROGRAM

Auburn Constructors, LLC (AUBURN) will be responsible for the quality control of their respective work. This is accomplished by administering an effective quality control, assurance, and inspection system established and carried out to ensure compliance with the Plans and Specifications. AUBURN will coordinate with Water Works Engineers to facilitate all on-site inspections, sampling and special testing requirements.

Long after construction is completed, this project will be highly visible to the public and provide a critical service to the surrounding community. AUBURN recognizes the great importance of this project to the City and will provide our distinguished attention to detail that we bring to every project we perform. AUBURN has an excellent track record of doing work right the first time and going the extra mile to ensure that all parties are satisfied with both function and aesthetics.



Figure 16: Auburn crew installing vertical turbine pumps at the West Hills Water Treatment Plant.

AUBURN's approach to quality control (QC) is a team effort that involves all levels of management from the project manager down to the foremen. Our QC Manager will be the onsite PM, Luke Smith. Mr. Smith will coordinate the overall QC efforts of AUBURN, our subcontractors, and vendors in complying with AUBURN's QC program and the project's specific QC requirements. Mr. Smith will also be responsible for the review and processing of submittals, O&M manuals, and as-built record drawings; coordinating quality control planning and review meetings; coordinating site visits by manufacturers' representatives to provide training and/or site inspections/observations; and stop work authority if workmanship or materials do not conform with project requirements.

As QC Manager, Mr. Smith will be ultimately responsible for the review and processing of submittals. AUBURN will never act as a "pass-through" for submittals but will carefully review each vendor or subcontractor submittal for completeness and conformity to the contract documents prior to submission. If deficiencies are discovered, they will be returned and corrected prior to being submitted for the Engineer's review. If necessary, the QC Manager will schedule and conduct QC review meetings between involved parties to ensure that known conflicts are resolved prior to submission.

Assistant PM Kyle Hutchens will be the link between the QC Manager and our civil/mechanical field foremen and subcontractors by performing daily inspections of work and materials, identifying and monitoring correction of non-conforming work items, providing feedback to the QC Manager on the effectiveness of QC activities, and stop work authority if workmanship or materials do not conform with project requirements.

Electrical Superintendent Don Pearson will fulfill this same role for our electrical field foremen and subcontractors.

AUBURN foremen are the boots-on-the-ground responsible for direct supervision of craftsmen onsite and maintaining quality workmanship. Our foremen review work-in-place for conformance with submittals, manufacturer's installation instructions and project specifications, attend quality control meetings, and have authority to stop work if workmanship or materials do not conform with project requirements.

AUBURN will ensure that all subcontractor work conforms to project requirements. It is our policy that subcontractor selection not solely be based on cost, but also based on quality, experience and ability to successfully complete the scope of work as intended. Mr. Hutchens will conduct a subcontractor pre-construction meeting at the jobsite for each subcontractor prior to the start of their work. These meeting review project specific safety and quality requirements related to the subcontractors' specific work activities. Mr. Hutchens will meet with onsite subcontractor staff daily to inspect work, discuss and help resolve outstanding issues, and assist in coordinating future work.

AUBURN will ensure that all purchased building materials, equipment, and supplies conform to project requirements. Vendors will be selected --- in part --- on their ability to provide the items specified on-time and packaged to ensure that they are appropriately protected during loading, unloading and storage at the jobsite. Mr. Hutchens will verify that 100% of the items delivered to the jobsite are those specified and in strict conformance with approved submittals prior to installation. Bills of materials will be checked against supplies actually delivered and will be cross checked with approved submittals. Any deficiencies will be returned to the supplier for correction. If necessary, photos, video, or shop inspections of corrections made will be requested prior to shipment.

Beyond providing testing for our own quality control purposes, Specification Section 01400 outlines several project specific requirements that AUBURN and our subcontractors will adhere to. Of special note is the requirement that we will be responsible for scheduling all tests and inspections pertaining to the earthwork scope. AUBURN will hire a third-party accredited laboratory and geotechnical consultant for approval by the City during the preplanning process.

INTRODUCTION TO AUBURN'S QC PROGRAM

The introduction to our QC Program provided below, affords the City with a concept of how our QC program will be structured on the project site:

1. Introduction

1.1. The 3 Phases of Quality Control (QC):

Construction quality depends on effective planning, coordination, communication, supervision and testing. AUBURN's Project Team (PT) will use the following tools to achieve quality:

- o Quality planning meetings
- o Confirm that materials meet project requirements at the time of purchase and delivery to the jobsite.
- o Daily inspections during construction

Quality Control (QC) consists of pre-planning activities before installation commences, as well as inspection and testing before, during and upon completion of work.

The 3 phases of Quality Control (QC) are:

- o Pre-Planning Phase
- o Construction Phase
- o Post-Construction Phase

The 3 phases of QC allow AUBURN to plan, schedule and install work in an orderly, consistent way that minimizes rework.

1.2. Zero Defect Program (ZDP):

Goals for AUBURN's Zero Defects Program (ZDP) are:

- o To complete AUBURN's scope of work and the work of subcontractors with a zero punch list at the time of substantial completion of AUBURN's scope of work,
- o To correct outstanding non-conformances during the course of construction as soon as practicable.

1.3. Roles and Responsibilities for Quality Control (QC)

AUBURN's Site Project Manager - (PM) Duties:

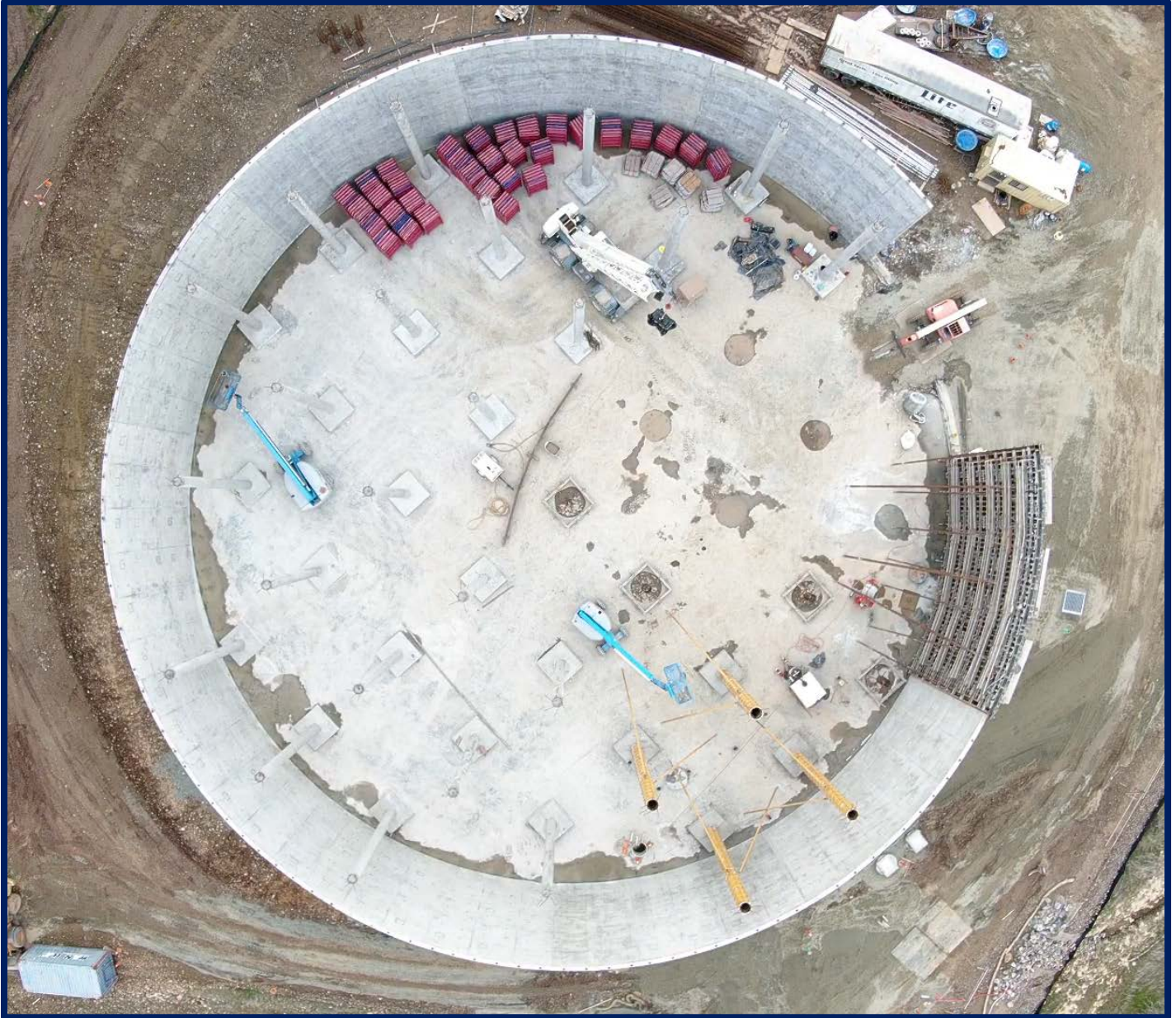
- o Acts as Quality Control Manager
- o Coordinate and conduct quality meetings and inspections
- o Coordinate visits by manufacturer or distributor representatives to provide training and/or site inspections/observations
- o Coordinate the QC efforts of AUBURN, subcontractors and owner QA in complying with project- specific requirements
- o Provide direct feedback and advise AUBURN's PT on the effectiveness of QC activities
- o PM will have authority to stop work if workmanship or materials do not conform with project requirements
- o Review work-in-place for conformance with submittals, manufacturer's installation instructions and project specifications
- o Confirm all inspections and tests are performed in conformance with project requirements
- o Inspect AUBURN's and subcontractor's work and monitor correction and completion of non- conforming work items.

AUBURN's Electrical Superintendent (ES) Duties:

- o Reports to PM
- o Responsible for all electrical and instrumentation scope Quality Control activities
- o ES will have authority to stop work if workmanship or materials do not conform with project requirements related to electrical scope
- o Provide direct feedback and advise AUBURN's PT on the effectiveness of QC activities

AUBURN's Foremen (FM) Duties:

- o Concrete and Mechanical FM Report to PM
- o Electrical FM reports to ES
- o Responsible for direct supervision of craftsman on site and maintaining quality workmanship
- o Review work-in-place for conformance with submittals, manufacturer's installation instructions and project specifications
- o Attend quality control meetings
- o FM will have authority to stop work if workmanship or materials do not conform with project requirements
- o Provide direct feedback and advise to AUBURN's PT on the effectiveness of QC activities



TAB J



**OTHER REQUIRED STATEMENTS
& DOCUMENTS**

OTHER REQUIRED STATEMENTS & DOCUMENTS

ATTACHMENT 10 – NO CONFLICT OF INTEREST DECLARATION

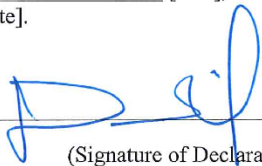
Attachment 10 – NO CONFLICT OF INTEREST DECLARATION

West Side Tanks and Pump Station Project

The undersigned Proposer certifies that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the resulting agreement, nor that any such person will be employed in the performance of such work without immediate divulgence of such fact to the City. Proposers submitting a Proposal in response to this RFP must disclose any actual, apparent, direct, indirect, or potential conflicts of interest that may exist with respect to the Proposer or the Proposer's management or employees relative to the services to be provided to the City. Conflict of interest issues may require consultation with legal counsel. **If a Proposer has no conflicts of interest, a statement to that effect must be added to this ATTACHMENT 10.** Violation of this section shall be a material breach of the Agreement entitling the City to any and all remedies by law or in equity.

The undersigned Proposer certifies that no undue influence or pressure is used against or in concert with any officer or employee of the City in connection with the award or terms of the Agreement that will be executed as a result of this RFP, including any method of coercion, confidential financial arrangement or financial inducement. No officer or employee of the City shall receive compensation, directly or indirectly, from the Proposer, or from any officer, employee or agent of the Proposer, in connection with the award of the Agreement or any Work to be conducted as a result of this RFP. Violation of these requirements shall be a material breach of the contract entitling the City to any and all remedies by law or in equity.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on 01/29/2020 [date], at Sacramento [city], California [state].


(Signature of Declarant)

****END OF ATTACHMENT 10****

City of Roseville
Design-Assist and Construction of
West Side Tanks and Pump Station
Attachment 10 Supplement

Assurance of Absence of Conflict of Interest

Auburn Constructors, LLC (AUBURN) hereby assures the City that no official or employee of the City has an interest, has been employed or retained to solicit or aid in the procuring of the resulting contract, nor that any such person will be employed in the performance of such contract without immediate divulgence of such fact to the City. AUBURN does not have any actual, apparent, direct, or potential conflicts of interest that may exist with respect to AUBURN or AUBURN's management or employees relative to the services to be provided to the City. AUBURN understands that any violation of the conflict of interest clause shall be a material breach of the contract entitling the City to any and all remedies by law or in equity.

I declare under the penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on 01/29/2020 at Sacramento, California.


J. Dean Bailey, President

ATTACHMENT 11 – NON-COLLUSION DECLARATION

Attachment 11 – NON-COLLUSION DECLARATION

West Side Tanks and Pump Station Project

NONCOLLUSION DECLARATION TO BE EXECUTED BY BIDDER AND SUBMITTED WITH PROPOSAL

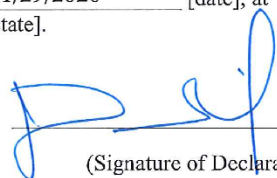
The undersigned declares:

I am the President of Auburn Constructors LLC, the party making the foregoing Proposal.

The Proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The Proposal is genuine and not collusive or sham. The Proposer has not directly or indirectly induced or solicited any other Proposer to put in a false or sham Proposal. The Proposer has not directly or indirectly colluded, conspired, connived, or agreed with any Proposer or anyone else to put in a sham Proposal, or to refrain from proposing. The Proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the Proposal price of the Proposer or any other Proposer, or to fix any overhead, profit, or cost element of the Proposer price, or of that of any other Proposer. All statements contained in the Proposal are true. The Proposer has not, directly or indirectly, submitted his or her Proposal price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham Proposal, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a Proposer that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the Proposer.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on 01/29/2020 [date], at Sacramento [city], California [state].


(Signature of Declarant)

****END OF ATTACHMENT 11****

ATTACHMENT 13 – IRAN CONTRACTING ACT DISCLOSURE FORM

Attachment 13 - IRAN CONTRACTING ACT DISCLOSURE FORM

GENERAL REQUIREMENTS

Pursuant to the Iran Contract Act of 2010 (California Public Contract Code, Sections 2202-2208), Proposers are ineligible to propose on projects with a public entity for goods or services of one million dollars (\$1,000,000) or more if the Proposer engages in investment activities in Iran.

Proposers must provide the below disclosure form as a mandatory submittal for all projects in excess of \$1,000,000. The Iran Contracting Act Disclosure Form shall be submitted by all Proposers as a mandatory submittal.

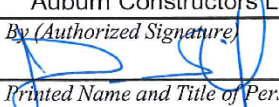
(California Public Contract, Sections 2202-2208)

When responding to a bid or proposal or executing a contract or renewal for a City contract for goods or services of \$1,000,000 or more, a vendor must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d).

To comply with this requirement, please provide your vendor or financial institution name and complete **one** of the options on the following page. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code section 2205.)

OPTION #1 – CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Vendor Name/Financial Institution (Printed)	
Auburn Constructors LLC	
By (Authorized Signature)	
	
Printed Name and Title of Person Signing	
J. Dean Bailey, President	
Date Executed	Executed in
01/29/2020	Sacramento, CA

OPTION #2 – EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

<i>Vendor Name/Financial Institution (Printed)</i>	
<i>By (Authorized Signature)</i>	
<i>Printed Name and Title of Person Signing</i>	
<i>Date Executed</i>	<i>Executed in</i>

****END OF ATTACHMENT 13****

ATTACHMENT 14 – INDEMNIFICATION AND INSURANCE REQUIREMENTS

Attachment 14 – INDEMNIFICATION AND INSURANCE REQUIREMENTS

Statement indicating your ability and agreement to fulfill the indemnification and insurance requirements contained in the sample CONTRACT (Reference Section 11.7). Provide notarized statement from insurance carrier. Please note that actual certificates of insurance are not required as part of your submittal.

****END OF ATTACHMENT 14****



Insurance | Risk Management | Consulting

Arthur J. Gallagher & Co. Insurance Brokers of California, Inc.
 3697 Mt. Diablo Blvd., Suite 300
 Lafayette, CA 94549
 CA Lic # 0726293
 United States

P 925.299.1112
 F 925.299.0328
 ajg.com

January 24, 2020

City of Roseville

Attn: City Clerk Department

311 Vernon Street

Roseville, CA 95678

RE: Prequalification for Auburn Constructors, LLC: Project: RFP 08-058 Design-Assist and Construction of West Side Tanks and Pump Station Project

To Whom It May Concern: As the Commercial Insurance Broker for Auburn Constructors, LLC we can confirm the following coverages are in place and can confirm the limits of insurance with the listed Insurers. The limits of insurance in Exhibit 11.7.1 can be fulfilled or be endorsed to contain the required provisions.

Coverage:	Limits	Deductible/SIR	Insurer
Commercial General Liability	\$1,000,000 Per Occurrence \$2,000,000 Per Aggregate \$2,000,000 Products Completed Operations Aggregate Limit	Per Occurrence \$5,000	Hartford Fire Insurance Company
Commercial Business Automobile Liability	\$1,000,000 Liability	Comp/Coll: \$1,000 Medium & Heavy \$1,000 Trailers: \$500	Hartford Underwriters Insurance Company
Workers Compensation and Employers Liability	\$1,000,000 Each Accident \$1,000,000 Policy Limit \$1,000,000 Each Employee	None	Hartford Insurance Company of Midwest
Professional Liability & Pollution Liability	\$2,000,000 Professional \$2,000,000 Job Site Pollution	Self-Insured Retention: Professional \$25,000 Pollution \$25,000	Indian Harbor Insurance Company
Commercial Umbrella	\$24,000,000 Per Occurrence \$24,000,000 Per Aggregate	Self-Insured Retention: \$10,000	Travelers Property Casualty Co of America

If you need any further, please do not hesitate to contact our office directly.

Sincerely,

Nicole Scott

Client Service Manager

Nicole.Scott@ajg.com

Direct: 925-953-5278

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Contra Costa)

On January 24, 2020 before me, Sharon D. Mitchell, Notary Public
(insert name and title of the officer)

personally appeared *****Nicole Scott*****
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Sharon D. Mitchell (Seal)



ATTACHMENT 19 – PROPRIETARY INFORMATION STATEMENT

Attachment 19 – PROPRIETARY INFORMATION STATEMENT

Complete and sign one of the following statements.

No Proprietary Information

Contractor hereby certifies that nothing contained in the submitted Proposal is to be proprietary information.

NAME OF BUSINESS

SIGNATURE

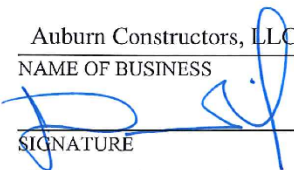
NAME & TITLE, TYPED OR PRINTED

Existence of Proprietary Information.

Contractor desires to claim a privilege against public disclosure for a trade secret or other proprietary information.

Auburn Constructors, LLC

NAME OF BUSINESS



SIGNATURE

J. Dean Bailey, President

NAME & TITLE, TYPED OR PRINTED

****END OF ATTACHMENT 19****



TAB K



EXCEPTIONS

EXCEPTIONS

NOT APPLICABLE



TAB L



PART 1 APPENDIX

PART 1 APPENDIX

SIGNED ADDENDA #1 THROUGH #3

IMPORTANT

Date: December 12, 2019

TO: Proposers

FROM: Janice Gainey, Senior Engineer, Environmental Utilities Dept.

RE: RFP 08-058 Design-Assist and Construction of West Side Tanks and Pump Station Project

*******ADDENDUM ONE*******

This Addendum 1 includes the following attachments:

Pre-Proposal Meeting Presentation
Pre-Proposal Meeting Sign in Sheet
WWE STD 15205-Hose Rack

This Addendum 1 consists of the following revisions or answers to questions:

1. PRE-PROPOSAL MEETING AND SITE WALK STATEMENTS AND RESPONSES TO QUESTIONS

Question 1: When will you notify the contractor that they have the winning proposal?

Answer: We anticipate notifying apparent winner or those who will be invited for interviews sometime between February 18th and February 20th 2020.

Question 2: When are questions going to be answered?

Answer: **Questions will be answered in batches as received via addendum postings on Public Purchase. Final questions are due January 13th and final addendum will be January 24th 2020.**

Question 3: Will the questions and presentation be uploaded to Public Purchase?

Answer: **Yes. Pre-proposal PowerPoint presentation and questions received during the meeting/job walk are being posted December 12th 2020.**

Question 4: How much time is anticipated for the contractor to participate in the design assist process?

Answer: The scope of work outlined in the contract documents; Volume 1 RFP specifies that the Contractor should anticipate up to eight (8) meetings of four (4) hours each for design assist meetings. Contractor should also consider what time they will need for preparation and follow-up for these meetings.

Question 5: Given the formula for scoring Guaranteed Maximum Price (GMP) with any GMP greater than 8% of the lowest GMP receiving zero points, how would the City handle a cost proposal that intentionally gave a “low ball” price in order to deprive all other proposals of any points for GMP?

Answer: First, the total scoring of the proposal is heavily weighted in favor of the Part 1-technical proposal. Second, if the City reasonably believes that GMP does not support ability to construct the project as designed, and the proposer’s Part 1 technical proposal is short listed, contractor will be given the opportunity during interviews to justify their GMP, or withdraw the proposal. Final determination will be made by City attorney if proposal is responsive or not.

Question 6: What are some of the important things you are looking for in the proposal?

Answer: The City is looking for evidence that the Contractor has thought carefully about project approach, has enough knowledge and experience with these types of projects to be able to anticipate issues and present valuable potential solutions.

Question 7: Are there any design items that are not open to alternatives/deviations?

Answer: The City has explored and studied multiple options for the tank tops and are set on a flat roof. Additionally the City would like to maintain access to valves for maintenance in vaults instead of direct bury. We are open to all other ideas.

Question 8: Part 1 has a maximum score of 250, Part 2 has a maximum score of 70. Why is there a total score of 310?

Answer: This is an error. The total potential score for proposal parts 1 and 2 should be 320.

Question 9: Do plans show the existing grading?

Answer: Yes, plans show existing grading.

Question 10: Can more area outside of the fence be used for storage?

Answer: It is our belief that there is adequate laydown and storage area for the project within the project site; however, if Contractor believes they need additional area, this can be discussed as the City does own property around the project site.

2. PRE-PROPOSAL MEETING POWER POINT PRESENTATION

Attached to this Addendum 1 is the pre-proposal meeting presentation

3. PRE-PROPOSAL MEETING SIGN-IN SHEET

Attached to this Addendum 1 is the pre-proposal meeting sign-in sheet.

4. SUBMITTED QUESTION: STEEL

Question: Is there any funding via America Iron & Steel or Buy America. We need to know if you are looking for Domestic or Import Material on this project.

Answer: Project is completely funded by City of Roseville. There are no requirements for buy America.

5. SUBMITTED QUESTION: WD00-C103

Question: Per Dwg WD00-C103, 106, etc., we saw 20 Bollards. Are they new Bollards? If so, are they Fixed or Removable? Also, please confirm which detail they should refer to: 2600 / WD00-G038 or ST-38 / WG00-G022?

Answer: Final placement of new bollards to be determined during design assist. For GMP cost proposal assume all are Removable per Detail 2600 on sheet WD00-G038.

6. SUBMITTED QUESTION: WD20-M005 AND DETAIL 15205

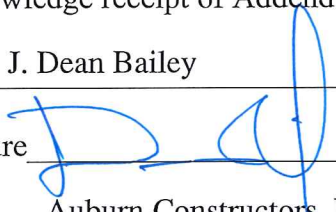
Question per Dwg WD20-M005, we saw a wall mounted Hose Rack calling out to 15205. However, it looks like the plans don't have detail 15205...

Answer: See attached detail 15205 which will be added to Volume 4 – Drawings.

Please include a signed copy of this addendum with your proposal.

I acknowledge receipt of Addendum One

Name J. Dean Bailey

Signature 

Company Auburn Constructors, LLC

Date 01/29/2020

IMPORTANT

Date: January 9, 2020

TO: Proposers

FROM: Janice Gainey, Senior Engineer, Environmental Utilities Dept.

RE: RFP 08-058 Design-Assist and Construction of West Side Tanks and Pump Station Project

***** ADDENDUM TWO *****

This Addendum 2 includes the following attachments:

Attachment 1: 0093^WD20-M-003 Booster Pump Station Section
Attachment 2: Question 11 – RFP Scoring

This Addendum 2 consists of the following revisions or answers to questions:

Note that questions 1-3 were addressed in Addendum 1.

4. SUBMITTED QUESTION: WD20-M001 and M003 - Pipe Size

Question: Can you confirm what size of Pipe is required as the details are calling out 24" In the Plan view Sheet M-001 and 30" in the Section view Sheet M-003.

Answer: The pump suction piping to each suction barrel and associated valves should be 24" as noted on drawings WD00-G-15 and WD20-M-001, and specification section 15200 VS-Valve Schedule. The piping is incorrectly called out as 30" on drawing WD20-M-003, and should be revised to 24". WD20-M003 has been corrected to show 24". See attached revised sheet 0093^WD20-M-003 Booster Pump Station Section

5. SUBMITTED QUESTION: SCADA

Question: Will the City be purchasing new SCADA software as part of this project. Or will work be implemented into an existing platform? Thank you for any information you can provide, I'm interested in sending the RFP to an integrator to submit a bid.

Answer: The City will be implementing on an existing platform.

6. SUBMITTED QUESTION: WD20-M-001 and M-003 - Pipe Size

Question: The potable water lines entering the pump barrels are called out as 24" PW on Drawing WD20-M-001 and 30" PW on Drawing WD20-M-003. Please clarify.

Answer: See response to question 4.

7. SUBMITTED QUESTION: WD00-G-026 and WD00-G-027 – Standard Details

Question: We could not locate a callout or reference for Standard Details W-17 thru W-22 on Drawing WD00-G-026 and WD00-G-027. If used, please indicate locations.

Answer: These are cathodic protection details that are not yet referenced from the Drawings and are currently placeholders. Cathodic protection design will be completed during the Design-Assist process for piping material selected for the project.

8. SUBMITTED QUESTION: WD20-AS-001 and Section 04200, Paragraph 1.4.C.1 – Color of CMU Block

Question: Drawing WD20-AS-001 states CMU is gray split face block and Specification Section 04200, Paragraph 1.4.C.1 states to submit the complete selection of manufacturer's standard and custom colors. Please clarify if gray block is correct.

Answer: City would like to select from the manufacturer's standard colors during the submittal approval process. For purposes of developing your GMP cost proposal assume "Tan Block".

9. SUBMITTED QUESTION: WD00-C-202 – Coupling on 72" Manhole

Question: Drawing WD00-C-202 references a 72" manhole, Detail W-35 where the new 30" PW ties into the existing water main. The connection point appears to be a flex coupling outside the manhole, but the manhole is shaded dark. Please clarify if the 72" manhole and accompanying butterfly valve is new or existing.

Answer: The point of connection with the existing 30" water pipeline is an existing buried 30" butterfly valve. Provide new piping and flex coupling as shown on the right side of the butterfly valve on Detail W-35, and new manhole as shown on Detail E-35.

10. SUBMITTED QUESTION: 16010 1.01 6 and WD20-I-003 – SCADA View Node

Question: Can you please provide specification and drawings for the SCADA View Node referenced in 16010 1.01 6 and also on drawing number WD20-I-003?

Answer: The wall mount SCADA terminal (View Node) hardware, software, and configuration is provided by City.

11. SUBMITTED QUESTION: RFP Scoring

Question: Addendum 1, Question 8, corrects a math error in the addition of Part 1, value (max)250, part 2, value(max) 70 =320 not 310 as shown.

This answer in addendum 1 does not address volume 1, section 7.1, page 14, TAB A: "Project Understanding"(30 Points), however, below the heading, first line states maximum score= 40 points, this could have produced the math error.

Page 15, TAB E, "Project Team" (40 points) however, page 22 proposal scoring matrix list TAB E as 50 points (max), this could be the cause of the 10 point error. Regardless, taking values from pages 14 & 15 does not match page 22.

Answer: See Attachment 2: Question 11 – RFP Scoring. Attachment shows edits to the RFP in three places to correct scoring totals.

Tab A: Project Understanding (40) Points)

Tab E: Project Team Qualifications and Experience (50 Points)

Total Maximum Possible Score for RFP Parts 1 and 2: 320

12. SUBMITTED QUESTION: HDPE3 Specification

Question: There is a call out for “UD” Pipe on the drawings, this Pipe is called out on the Schedule as HDPE3. There is no spec section provided for HDPE3? Can you please provide?

Answer: This is a typo. Revise pipe material for “UD” in Pipe Schedule on Drawing WD00-G-013 to “HDPE2”.

13. SUBMITTED QUESTION: Cost Proposal Format

Question: I don’t see any Bid items on this project. Is a lump Sum Price all that is required?

Answer: This is a Design Assist Contract with a Guaranteed Maximum Price. Please review the RFP for additional information; specifically section 7.2 and Attachment 15.

14. SUBMITTED QUESTION: WD00-G-013 and 15100- Lining for DIP

Question: The Piping Schedule is calling for Potable Water to be CM, Section 15100 PSDS DIP Lining for Water Pipe is asking for Ceramic Epoxy. Please confirm the correct lining.

Answer: Technical Specification Section 15100 covers multiple types of lining. The appropriate lining for each pipe segment is identified in the piping schedule on WD00-G-013.

15. SUBMITTED QUESTION: WD20-M-001 and M-003 - Pipe Size

Question: Please confirm if the couplings identified on Sheet 72 are to be Restraint Couplings. Specs only call out Flexible Couplings.

Answer: All piping specified to be pressure tested shall be restrained with appropriate joint and fitting restraints for the piping system and connection types.

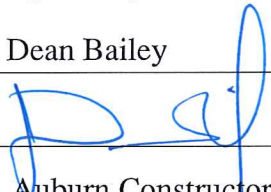
16. ENGINEER REVISION: 16210 Generator Data Sheet

Change: Revise Diesel Fuel tank capacity from 24 hours to 48 hours.

Please include a signed copy of this addendum with your proposal.

I acknowledge receipt of Addendum 2

Name J. Dean Bailey

Signature 

Company Auburn Constructors, LLC

Date 01/29/2020

IMPORTANT

Date: January 22, 2020

TO: Proposers

FROM: Janice Gainey, Senior Engineer, Environmental Utilities Dept.

RE: RFP 08-058 Design-Assist and Construction of West Side Tanks and Pump Station Project

***** ADDENDUM THREE *****

This Addendum 3 includes the following attachments:

There are no Attachments to Addendum 3.

This Addendum 3 consists of the following revisions or answers to questions:

Note that questions 1-3 were addressed in Addendum 1, questions 4-16 were addressed in Addendum 2.

SPECIAL NOTE: Although the delivery address for the proposals is provided in the RFP, it was not shown in Public Purchase. The delivery address has now been posted to Public Purchase.

City of Roseville
Attn: City Clerk Department
311 Vernon Street
Roseville, CA 95678

17. SUBMITTED QUESTION: WD20-M-001 ARV

Question: The drawing WD20-M-001, Note 5 calls out for Detail 15300 for ARV. The same item (ARV) is called out on Sheet WD20-M-003 as Detail 15234.

The standard Sheet WD00-G-054, has indicated Detail 15230? Please confirm if this Detail 15230 is correct or provide Detail. 15234

Answer: Detail 15230 is the correct detail to use for this installation. Revise Note 5 on Drawing WD20-M-001 to reference Detail 15230. Change the reference in the callout on Drawing WD20-M-003 from Detail 15234 to Detail 15230. See attached revised drawings.

18. SUBMITTED QUESTION: UTILITY TRANSFORMER

Question: Please confirm if the standalone Utility Transformer is to be furnished by the contractor or the Electric Utility company (Roseville Electric). If the Transformer is to be provided by the contractor, please confirm that "Section 16470-Panelboard and Power Transformer" of the spec will govern utility transformer requirements.

Answer: The City will furnish the Utility transformer and primary wire. Additionally, per Specification Section 16010 1.05A, the City pays the Utility Fees as a function of the new service application process. The Fees include the transformer and primary wire costs so they should not be included in the contract.

19. SUBMITTED QUESTION: SECTION 01110 – CATHODIC PROTECTION SYSTEM

Question: Specs section 01110 Part 1.2-B-6c mentions Contractor Design and Installation of a cathodic protection system. There is no other specification that provides any detail of the requirements of the cathodic system. If cathodic is required, please provide a cathodic protection specification to base our estimate on. Please advise.

Answer: These are cathodic protection details that are not yet referenced from the Drawings and are currently placeholders. Cathodic protection design will be completed during the Design-Assist process for piping material selected for the project. See response to Question 7, Addendum 2.

20. SUBMITTED QUESTION:

Question: Can you confirm if the 4" & 6" Sanitary Sewer DI Yard Piping should have NO Lining or Coating per Schedule.

Answer: The coating Information was unintentionally left off the pipe schedule, Dwg WD00-G-013. SS DIP shall be coated per Section 15100 PSDS DIP.

21. SUBMITTED QUESTION:

Question: Per Volume 2, Article 11 - Insurance and Bonds; Indemnification, 11.13 - Please confirm the indemnity will exclude the willful misconduct of the City pursuant to California Civil Code 2782.

Answer: Yes, the indemnity will exclude the willful misconduct of the City. This language will be edited in the final contract before execution as shown in text below.

11.13 Indemnification

To the fullest extent allowed by law, CONTRACTOR shall defend, indemnify, and hold harmless, CITY, its officers, employees, agents, and volunteers, and each and every one of them, from and against all actions, damages, claims, losses, expenses or other liabilities of every type and description, including reasonable attorney fees, to which they may be subjected or put, by reason of, or resulting from, the performance of the Work, whether upon or off the Work, including the loss of use thereof, that is caused in whole or in part by willful or reckless misconduct and/or any negligent or wrongful act or omission of CONTRACTOR, any Subcontractor, and anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, whether or not it is caused in part by a party indemnified hereunder, except for such claims arising from the sole negligence, or active negligence, or willful misconduct of CITY. The parties intend that this provision shall be broadly construed.

CONTRACTOR's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.

22. SUBMITTED QUESTION:

Question: Per Volume 2, Article 11 - Insurance and Bonds; Indemnification, 11.11.C - The Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of the Contract, including the indemnity and insurance requirements. The required General Liability limits of \$5M per occurrence and \$10M aggregate is not commercially reasonable for subcontractors not defined as Major Subcontractors or Key Subcontractors. Please confirm the Contractor can accept lower General Liability insurance limits from subcontractors that are not defined as Major Subcontractors or Key Subcontractors that are commercially reasonable based on their scope of work.

Answer: All LISTED contractors (those with a scope of work greater than one half of one percent (0.5%) of the GMP) have the same insurance requirements as the General Contractor.

For smaller (not LISTED) we are adding the following section to Article 11.4 Summary of Insurance Requirements.

11.4.1 Subcontractors

Minimum Amount of Coverage for Subcontractors who are NOT Listed Contractors included in Attachment 7 to the RFP "Statement of Subcontractors": The bodily injury, personal injury and property damage liability of the Commercial General Liability insurance shall provide coverage in the following limits of liability: \$2,000,000 on account of any one occurrence for bodily injury and property damage, \$2,000,000 personal and advertising injury limit with an annual general aggregate limit of not less than \$4,000,000, and \$2,000,000 products and completed operations aggregate, combined single limit. The Automobile Liability insurance policy shall provide minimum limits of \$1,000,000 per accident as a combined single limit arising out of the ownership, maintenance, or use of any owned or non-owned vehicles. These minimum amounts of insurance coverage do not preclude the Contractor from requiring higher limits or additional insurance coverage as it deems necessary.

23. SUBMITTED QUESTION:

Question: For the Booster Pump Station Roof and Canopy, there are no down spouts shown on the contract drawings. Spec section 07600-2, section 2.4 states "Form downspouts and gutters in maximum lengths as practicable to sizes and shapes indicated on Drawings or to field-fit the locations shown on the drawings."

Spec Section 10340-3, section 2.4 states "Concealed drainage at canopies: Water shall drain from covered surfaces into intermediate trough and be directed to downspouts."

The drawings do not show gutters or down spouts. Please confirm there are no down spouts at the booster pump station for either the roof or the canopy.

Answer: Gutters and downspouts are not required.

24. SUBMITTED QUESTION:

Question: The contract documents state "Contractor should anticipate up to eight (8) meetings of four (4) hours each for design assist meetings." The contract documents do not indicate the anticipated schedule duration for the design assist period from NTP to release of Final Design Drawings and Specifications for Construction. It is our understanding that all project submittals and shop drawings are to be based off the Final Project Drawings and Specifications for Construction, and not those drawings included in the RFP set. For an accurate bid schedule and understanding of the design assist requirements, what is the City's anticipated duration (in days) after NTP that

will be needed to complete the design assist and issue the Plans and Specifications for construction? Please advise.

Answer: The Design-Assist process is throughout the project. Drawings will not necessarily all be finalized at the same time and will depend on what ideas Contractor has, and schedule prioritization.

It is anticipated that the Final Project Drawings and Specifications for Construction will be released as they are finalized and approved through the Design-Assist process. Contractor shall assume the first package of Final Project Drawings and Specifications for Construction detailing approved mobilization and grading work, including the tank and pump station building subgrade and piping shall be released for construction 30 calendar days after NTP. To meet this schedule, Contractor shall be prepared and participated in first design-assist meeting within 5 days of NTP. The schedule for release of the remaining Final Project Drawings and Specifications for Construction will be a function of the speed with which items A-E of Article 2.1, Scope of Work Summary, can be completed by Contractor, submitted to Design Team and a comprehensive construction plan to address project risks can be completed and agreed to via the remaining Final Design Coordination Meetings.

25. SUBMITTED QUESTION:

Question: We would like to request adding by addendum the DeZURIK Model BAW AWWA Butterfly valve as an acceptable manufacturer in BFV-10 Spec section 15200, 2.3, it would be considered an equal and normally allowed on Waterworks Engineering projects specifications.

The listed manufacturers are actually one company not two different ones thus not having any competition for these major items on the project.

The importance of this is that the bidding contractors will only take listed manufacturers and no "or equals" without being listed by addendum only the Mueller products will sole sourced.

We understand that DeZURIK Model BAW AWWA Butterfly valve is an acceptable manufacturer for the City of Roseville and has been supplied on past projects.

See below Pratt website shows it's a Mueller brand (url for website omitted).

Answer: DeZURIK Model BAW AWWA butterfly valves are acceptable for BFV-10 valve types. Revise Section 15200, 2.3.A.3 to add new item "c" as follows and change current item "c" to item "d":

"c. DeZURIK Water Controls; Model BAW."

26. SUBMITTED QUESTION:

Question: There appears to be a discrepancy in the definitions of “Key” and Major” subcontractors between the RFP and Sample Agreement.

Answer: Please revise the following definitions in Volume 2 Article 1 (Agreement) to read as follows:

- 1.89. **“Subcontractor-KEY”.** Key subcontractors are defined as a subcontractor who will perform greater than or equal to twenty-five percent (25%~~5%~~) of the GMP.
- 1.90. **“Subcontractor-MAJOR”.** Major subcontractors are defined as a subcontractor who will perform greater than five percent (~~20~~5%) of the GMP.

27. SUBMITTED QUESTION (contains 4 parts identified as a, b, c, and d):

- a. **Question:** Sheet 00-E-008 show a conduit identified as “21-E-615” in the group of conduits from the Load Bank to the Generator. This conduit does not show up in the Conduit and Wire Routing Schedule. Please provide the required information.

Answer: Add conduit to the Conduit and Wire Routing Schedule as follows: Tag No.: 21-E-615, Size: 1", Type "SPEC", From: Generator, To: Load Bank, Wire Fill: Pull Rope.

- b. **Question:** Conduit identifiers 23-P-603A thru 23-P-603H are identified wrong and should be 21-P-603A thru 21-P-603H. Please confirm.

Answer: Revise conduit numbers 23-P-603A thru 23-P-603H to 21-P-603A thru 21-P-603H on plan drawing WD20-E-001.

- c. **Question:** Sheet WD40-E-001 has a conduit shown as “21-S-501L” feeding LITx-252 at the Valve Vault. This conduit does not appear in the Conduit and Wire Routing Schedule. The Conduit and Wire Routing Schedule does show in the notes that that conduit “21-S-501J is supposed to feed LITx-252 but the conduit identifier on WD40-E-001 is pointing to the conduit feeding LITx-152. Please clarify or provide the required information.

Answer: Revise Conduit and Wire Routing Schedule as follows:

21-S-501J From: PBX-CO2, To: Level Transmitter Jbox, Wire fill: 2 #16 TSPR.

21-S-501K From: Level Transmitter Jbox, To: Tank 1 Level Transmitter, Wire Fill: 1 #16 TSPR Note: (LIT-*152) .

Add conduit Tag No.: 21-S-501L, Size: 3/4", Type "SPEC", From: Level Transmitter Jbox, To: Tank 2 Level Transmitter Wire Fill: 1 #16 TSPR, Note: (LIT-*252).

- d. **Question:** On Sheet WD20-M-001, Note 7 calls for a Portable Hoist for installing and removing valves. Does this Hoist require a dedicated electrical

circuit or will it utilize the 120v convenience outlets located in the general vicinity?

Answer: This is a non-motorized hoist.

28. SUBMITTED QUESTION:

Question: Are bidders entitled to rely upon the Geotechnical Report for West Side Tank & Pump Station Project Phase 2, Roseville, California dated January 9, 2019 prepared by Bajada Geosciences, Inc. identified in 2.2 of the RFP?

Answer: The Geotechnical Report for West Side Tank & Pump Station Project Phase 2, Roseville, California dated January 9, 2019 prepared by Bajada Geosciences, Inc., is supplemental information available to proposers as detailed in paragraph 2.2 of the RFP. The Contractor shall rely on the Intent of Contract Documents, as detailed in paragraph 2.4.2 of Agreement. Subsurface or concealed conditions that are materially different than information provided in the Contract Documents, including but not limited to the referenced Geotechnical Report, will be reviewed for relief in accordance with the requirements set forth in Section 2.7 of the Agreement and in accordance with California Public Contract Code section 7104.

29. SUBMITTED QUESTION:

Question: Please confirm that Public Contract Code section 7104 applies to this project.

Answer: California Public Contract Code section 7104 applies to this project and the applicable provisions will be incorporated into Section 2.7 of the final Agreement prior to execution with the successful Contractor.

30. SUBMITTED QUESTION:

Question: Is the Contractor entitled to Change Order relief under 2.7.1 (Local Conditions) of the Agreement if encountered subsurface or concealed conditions are materially different than information provided with the RFP, including the Geotechnical Report for West Side Tank & Pump Station Project Phase 2, Roseville, California dated January 9, 2019 prepared by Bajada Geosciences, Inc. identified in 2.2 of the RFP?

Answer: Subsurface or concealed conditions that are materially different than information provided in the Contract Documents, including but not limited to the referenced Geotechnical Report, will be reviewed for relief in accordance with the requirements set forth in Section 2.7 of the Agreement and in accordance with California Public Contract Code section 7104.

31. SUBMITTED QUESTION:

Question: Please confirm that LD's are the sole and exclusive remedy for delays.

Answer: Liquidated Damages are one available remedy for delays, in addition to those stated in provisions of Articles 13 and 14 of the Agreement.

32. SUBMITTED QUESTION:

Question: Please provide a waiver of all consequential damages, including lost profits/revenue.

Answer: The City will not provide a waiver of all consequential damages, including lost profits/revenue. Any proposed requests to waive damages shall be addressed in the Contractor's response to this RFP and shall be evaluated accordingly by the City.

33. SUBMITTED QUESTION:

Question: Section 11.5.3 Claims Made coverage - Special Notice, states liability coverage may not be written on a claims-made basis. Occurrence base Professional Liability is not commercially available. Please amend to:

"Liability insurance coverage may not be written on a "claims made" basis, except for Professional Liability insurance. The Certificate of Insurance must clearly provide that the coverage is on an "occurrence" basis."

Answer: Revise Volume 2 Article 11.5.3 to read as follows:

11.5.3 Claims Made Coverage – Special Notice

SPECIAL NOTICE - CLAIMS MADE COVERAGE:

Liability insurance coverage may not be written on a "claims made" basis, with the exception of Professional Liability. The Certificate of Insurance must clearly provide that the coverage is on an "occurrence" basis.

34. SUBMITTED QUESTION:

Question: Section 11.8 Builder's Risk of the Agreement, states the maximum deductible allowable under the Builder's All Risk policy shall be five percent (5%) of the Contract amount. Deductibles are the sole responsibility of the first named insured on the policy and not the responsibility of the City or any other additional insureds on the policy. Because there is no financial exposure to the City, Contractor's deductibles should be at the sole discretion of the Contractor. Please strike this sentence in its entirety.

Answer: Revise Volume 2 Article 11.8, second paragraph to read as follows:

The policies providing such insurance shall name CITY as a loss payee as its respective interests may appear, and certified copies of such policies shall be filed with CITY. ~~The maximum deductible allowable under the Builder's All Risk policy shall be five percent (5%) of the Contract amount.~~

35. SUBMITTED QUESTION:

Question: Section 11.11 Other Insurance Provision (B.) of the Agreement, states any self-insurance or self-insured retentions must be declared and approved by City in writing. Self-insured retentions and deductibles are the sole responsibility of the first named insured on the policy and not the responsibility of the City or any other additional insureds on the policy. Because there is no financial exposure to the City, Contractor's deductibles should be at the sole discretion of the Contractor. Please strike this paragraph in its entirety.

Answer: All insurance requirements must be met before contract award. Insurance will be reviewed as part of final contract negotiation and execution. Any waivers can be considered by the City at that time.

36. SUBMITTED QUESTION:

Question: Drawing WD40-S-009, Detail 1 notes the required floor joint, should one be needed by contractor. Please note that if a floor joint is required, a roof joint will most likely be required as well. The detail shown appears to be a floor slab joint used for concrete floor slabs that are placed at grade. Please confirm, similar to the floor slab, should the contractor require a construction joint to facilitate the schedule, a construction joint in the roof slab would be allowed. Please provide additional details for a construction joint in the roof slab, as it will likely be necessary for a reservoir of this size.

Answer: Floor slab and roof slab joints are not explicitly required, but can be included if the contractor determines that they are needed to accommodate their concrete placement schedules. Floor and roof slab joints, if used, need to include a waterstop and galvanized rebar across the joint. Final joint detail will be finalized as part of Design-Assist process.

37. SUBMITTED QUESTION:

Question: Project specification section 03251.2.8.A notes that bonding agents used that are subject to contact with potable water, shall be NSF-61 certified. Please confirm Scotch-Grip 1300 Rubber adhesive by the 3M company can be applied on bearing pad that is located on the "outside-of-tank" side of water stop that does not come into contact with potable water, and Sikaflex - 1A can be applied to bearing pad on the "inside-of-tank" side of water stop that does come into contact with potable water.

Answer: Scotch-Grip 1300 is used as a bonding agent where it will not be subjected to contact with potable water, i.e. outside of the waterstop. Sikaflex 1A is applied to hold the bearing pad in place while the walls are poured. The inside face of the bearing pad is coated with the NSF 61 CIM coating to meet compliance.

38. SUBMITTED QUESTION:

Question: The tank drawings (WD40-S-002) show two floor sumps however the tank site civil drawings (WD40-M-001) only show piping to one sump. Please confirm the number of sumps required per tank.

Answer: Only one sump is required.

39. SUBMITTED QUESTION:

Question: The project specification 03300.3.3.D.2 states that in no case shall free fall of concrete exceed 8 feet. In the case of a circular spirally tied columns, as is designed for the prestressed concrete tank, columns can be poured from the top as they are not water retaining. Please review and determine whether it is acceptable for concrete to free fall from heights greater than 8 feet, and to use direct discharge for the column pours on this project.

Answer: Concrete free fall shall NOT exceed 8 feet. Concrete free fall greater than 8 feet is NOT acceptable.

40. SUBMITTED QUESTION:

Question: Please confirm if project inspector will be a resident inspector providing inspections continuously and ongoing throughout tank construction.

Answer: The Construction Manager is full-time and shall provide services as described in paragraph 1.19 of Agreement, including select inspection and testing services as described in the Contract Documents. The Contractor is also required to provide select inspection and testing services as described in the Contract Documents. The Contractor shall provide notice / request for inspection and schedule all inspections and testing in accordance with the requirements of the Contract Documents.

41. SUBMITTED QUESTION:

Question: With respect to pre-existing hazardous materials/hazardous waste or hazardous materials/hazardous waste not brought onto the site by the Contractor, please confirm that the City will be considered the "generator" of such hazardous materials/hazardous waste and sign any necessary generator manifests.

Answer: Hazardous materials and hazardous waste shall be handled by the Contractor in accordance with the provisions of the Agreement at "Exhibit E –

Hazardous Materials.” It is possible that the City may not be considered the “generator” of such hazardous materials/waste. Please note the limitation on Contractor’s liability in Sections D.3 and D.4 of Exhibit E to the Agreement.

42. SUBMITTED QUESTION:

Question: Note 3, Drawing WD00-C-302 states to install 3" layer of mulch over weed barrier, which could not be located. Please clarify if applicable.

Answer: Weed Barrier (i.e. 20-yr landscape fabric) shall be black polypropylene polyester blend, 28 mills, 3.33 ounces/sq.yard, Mullen burst strength: 250 lbs. Permeability is 28 gals/s.f./min. per fallen head method. Weed barrier shall be DeWitt Pro 5 Weed Barrier or approved equal. Contractor proposed weed barrier shall be submitted for approval in accordance with Section 02950, paragraph 1.4.A.1.

43. SUBMITTED QUESTION:

Question: Bioretention Section E, Drawing WD00-C-103 and Landscaping Plan, Drawing WD00-C-302 do not indicate plant material within Bioretention Basins. Section 02950, Paragraph 2.1 outlines planting requirements for bioretention areas. Please clarify plant material is required.

Answer: Plant material is required in Bioretention Basins as detailed in Specification 02950 and West Placer Storm Water Quality Design Manual Final Draft, Fact Sheet TR 1, Sacramento Valley Native Plant List.

44. SUBMITTED QUESTION:

Question: We represent Xylem Goulds Vertical Turbine Pumps and would like to be listed as an equal product in specification section 11200, 2.2, Product and Manufacturer. Goulds Pump Model 16DMC-2 Stages is a good fit for the design conditions.

Attached for your review is a pump curve, Goulds Vertical Turbine Brochure, ISO 9001 Certification and an NSF 61 Brochure. We are confident Goulds can meet the specifications and would like an opportunity to quote the contractors. Goulds Pumps are made in America.

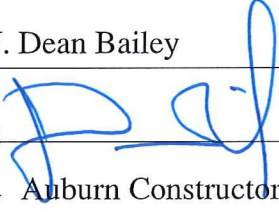
Answer: Xylem Goulds is an acceptable manufacturer for the vertical turbine pumps specified in Section 11200, provided they meet all specified requirements. Modify Section 11200, 2.2 to add new item “D” as follows and change current item “D” to item “E”.

“D. Xylem Goulds”

Please include a signed copy of this addendum with your proposal.

I acknowledge receipt of Addendum 3

Name J. Dean Bailey

Signature 

Company Auburn Constructors, LLC

Date 01/29/2020



EXHIBIT C - GUARANTEED MAXIMUM PRICE, COST OF WORK, AND FEE

- A. GUARANTEED MAXIMUM PRICE:** The Guaranteed Maximum Price as of the date of execution of this Agreement is Twenty three Million Four Hundred Eighty One Thousand Three Hundred and no/100ths (\$23,481,300), U.S. Currency.
- B. FEE AND CONTINGENCY:** The Fee and Contingency amounts, if any, are as detailed in the CONTRACTOR'S Proposal Part 2-Cost Proposal and Financials as Attachment 15-GUARANTEED MAXIMUM PRICE, COST OF WORK, and FEE and is incorporated at the end of this Exhibit C.
- C. PROPOSED SHARED SAVINGS:** The proposed shared savings are detailed in the CONTRACTOR'S Proposal Part 2-Cost Proposal and Financials as Attachment 16-Proposed shared Savings and is incorporated at the end of this Exhibit C.

D. COST OF THE WORK:

Cost of the Work. The term "Cost of the Work" shall mean costs incurred by CONTRACTOR in the performance of the Work, that do not exceed the GMP. The following are categories of cost and expense to be paid by CITY to CONTRACTOR as Cost of the Work:

1. Construction Costs.

1.1. Labor Costs.

- 1.1.1. Wages of construction workers directly employed by CONTRACTOR to perform the construction of the Work at the Site or, with CITY'S agreement, at off-site workshops.
- 1.1.2. Wages or salaries of CONTRACTOR's supervisory and administrative personnel when stationed at the Site and wages, salaries and other costs of project management, pre-construction services, form design, foundation engineering, manpower planning, purchasing, estimating and data processing, whether performed at the Site or in CONTRACTOR's offices, including, but not limited to services rendered during the Design Phase of the Project.
- 1.1.3. Wages and salaries of CONTRACTOR's supervisory or administrative personnel engaged at factories, workshops or on the road, in expediting the production or transportation of materials or equipment required for the Work, but only for that portion of their time required for the Work.
- 1.1.4. Costs paid or incurred by CONTRACTOR for taxes, insurance, contributions, assessments and benefits required by law or collective bargaining agreements and, for personnel not covered by such agreements, customary benefits such as sick leave, medical and health benefits, holidays, vacations and pensions, provided such costs are based on wages and salaries included in subsections 1.1.1 through 1.1.3 above.

- 1.2. **Subcontract Costs.** Amounts due Subcontractors in accordance with the requirements of the Subcontracts.

- 1.3. **Costs of Materials and Equipment Incorporated in the Completed Construction.** Costs, including transportation, of materials and equipment

incorporated or to be incorporated in the completed construction.

1.4. Costs of other Materials and Equipment, Temporary Facilities, and Related Items.

1.4.1. Costs, including transportation, installation, maintenance, dismantling and removal of materials, supplies, temporary facilities, machinery, equipment and hand tools not customarily owned by the construction workers, which are provided by CONTRACTOR at the Site and fully consumed in the performance of the Work; and cost, less salvage value, on such items if not fully consumed, whether sold to others or retained by CONTRACTOR. Costs for items previously used by CONTRACTOR shall mean fair market value.

1.4.2. Rental charges for temporary facilities, machinery, equipment and hand tools not customarily owned by the construction workers, which are provided by CONTRACTOR at the Site, whether rented from CONTRACTOR or others, and costs of transportation, installation, minor repairs and replacements, dismantling and removal thereof. Rental charges for equipment owned by CONTRACTOR shall be at then prevailing rates.

1.4.3. Costs of removal of debris from the Site.

1.4.4. Costs of facsimiles, telegrams and long distance telephone calls, postage and delivery charges (whether originating at the Site or at the offices of CONTRACTOR or CONTRACTOR), telephone service at the Site and reasonable petty cash expenses of the Site office.

1.5. Premiums; Taxes; Fees; Royalties.

1.5.1. That portion directly attributable to this Agreement of premiums for insurance and the Payment and Performance Bonds.

1.5.2. Sales, use, gross receipts or similar taxes imposed by a governmental authority, which are related to the Work and for which CONTRACTOR is liable.

1.5.3. Fees and assessments for any permits, licenses and inspections required by the Contract Documents.

1.5.4. Fees of testing laboratories for tests required by the Contract Documents or government authorities.

1.5.5. Royalties and license fees paid for the use of a particular design, process or product required by the Contract Documents. The costs of defending suits or claims for infringement of patent rights arising from such requirement by the Contract Documents; payments made in accordance with legal judgments against CONTRACTOR or CONTRACTOR resulting from such suits or claims and payments of settlements in connection therewith.

1.5.6. Deposits lost for cause other than CONTRACTOR's negligence.

1.6. Emergencies. Costs incurred in taking action to prevent threatened damage, injury or loss in case of emergency affecting the safety of persons and property, as provided in Article 12.10-EMERGENCIES of this Agreement.

- 1.7. **Other Costs.** Other costs incurred in the performance of the Work, if and to the extent approved in writing by CITY, which approval shall not be unreasonably withheld.

2. Items not Included in Cost of the Work.

- 2.1. Salaries and other compensation of CONTRACTOR's personnel stationed at CONTRACTOR's principal office or offices other than the Site, except as specifically provided in subsection 1 above.
- 2.2. Expenses of CONTRACTOR's principal office and offices, other than the Site office.
- 2.3. Overhead and general expenses, except as may be included in subsection 1 above.
- 2.4. The capital expenses of CONTRACTOR, including interest on capital employed for the Work.
- 2.5. Costs that would cause the GMP to be exceeded.

Attachments to Exhibit C incorporated on following pages:

CONTRACTOR'S Proposal Part 2-Cost Proposal and Financials: Attachment 15-
GUARANTEED MAXIMUM PRICE, COST OF WORK, and FEE

CONTRACTOR'S Proposal Part 2-Cost Proposal and Financials: Attachment 16-Proposed
shared Savings

Attachment 15 - GUARANTEED MAXIMUM PRICE, COST OF WORK AND FEE

West Side Tanks and Pump Station Project

1.0 TOTAL PROPOSED GUARANTEED MAXIMUM PRICE (GMP)

The undersigned proposes and agrees to contract with the City to perform all of the Work for the Design Assist and Construction of the West Side Tanks and Pump Station Project including subsidiary obligations as defined in the Contract, for a **Guaranteed Maximum Price ("GMP")** of Twenty Three Million, Four Hundred Eighty One Thousand, Three Hundred dollars (\$ 23,481,300 .00), U.S. Currency.

Subject to the provisions of this Proposal and the Contract, the costs and expenses which the Contractor may include in the Cost of Work for purposes of determining that aspect of the Contractor's compensation are as set forth below. The Contractor's total compensation, including Fee and allowable mark-ups, shall not exceed the GMP.

The GMP may be adjusted by Change Order in accordance with the Agreement.

2.0 BREAKDOWN OF GUARANTEED MAXIMUM PRICE

Proposer provides the breakdown of the Contractor's GMP by major items of work as shown in Table 15-1. The cost breakdown should sum to a total that equals the GMP given in this Attachment 15 Section 1.0 – Total Proposed Guaranteed Maximum Price.

Table 15-1: Breakdown of Guaranteed Maximum Price

Scope Area	Cost
Site Development and Ground Improvements	2,000,000
Mechanical Equipment and Piping	4,350,000
Water Storage Tanks	12,275,000
Pump Station Building	1,231,300
Electrical, Instrumentation and Controls	2,500,000
Mobilization, Demobilization, Bonds, Insurance, and Permits	1,100,000
Sheeting/Shoring/Bracing per Labor Code Section 6707 (From Table 15-5)	25,000
Allowance Items Total (From Table 15-6)	0
Total GMP:	23,481,300

3.0 Schedule of Values

Contractor will be required to submit a complete schedule of values upon selection to facilitate contract negotiation within ten (10) days of notice.

- A. The Schedule of values shall be a form showing a detailed breakdown of quantities and prices of work and materials required to perform and complete the contract, including voluntary proposer allowances.
- B. The Schedule of values shall provide a cost breakdown for each element detailed in the approved Construction Schedule. The total of the price breakdown must agree with the GMP. The elements listed and price breakdown shall not be front end loaded or unbalanced, shall be subject to adjustment between the ENGINEER and the CONTRACTOR, and will be used as a basis for progress payments.
- C. Acceptance of the Schedule of values shall not relieve the CONTRACTOR of the responsibility of performing all the work needed to complete the project at the GMP.

Volume 2 – Agreement incorporates additional details and definitions that pertain to the Guaranteed Maximum Price, Fee, and Cost of Work.

4.0 COST OF THE WORK

The term "Cost of Work" means the sum of all costs necessarily incurred and paid by the Contractor for labor, materials, equipment, subcontractors, special services, bonds, liability, workers' compensation and errors and omissions insurance, direct job overhead expenses, taxes and other necessary expenses incurred in the performance of the Work, that do not exceed the GMP.

4.1 Hourly Field Labor

The cost of hourly field craft labor for workers used in actual and direct performance of the work by the Contractor will be the sum of the following:

- A. The actual wages paid plus any employer payments to, or on behalf of workers for fringe benefits including health and welfare, pension, vacation and similar purposes.
- B. All payments imposed by State and Federal Laws including, but not limited to, workers' compensation insurance, and social security payments. The rates used for workers' compensation insurance shall be actual rates paid by the Contractor for each specific craft and broken down by wage rate if applicable to that craft.
- C. Actual General Liability insurance burden, if applied to Contractor's payroll.

4.2 Hourly Field Craft Labor Rates Limitations

The cost of hourly field craft labor for workers used in actual and direct performance of the work by the Contractor will be limited by the following:

- A. Except as otherwise may be agreed to in writing by the City, the actual wages and benefits paid for manual classifications of Contractor's on-site workers will not, in the aggregate, be greater than the current applicable wage for each classification as established by the State of California Department of Industrial Relations.

- B. Specifically prohibited from the labor costs are other payroll burden factors such as small tools (as defined in Attachment 15 Section 3.6-Construction Equipment), bonuses of any kind and safety incentives.
- C. The Hourly Field Labor Rates will remain unchanged for the duration of the Project unless changed in accordance with an Industry Master Labor Agreement, if the Contractor is signatory to any such Agreements, changes by the Department of Industrial Relations, or changes made company-wide in the Contractor's organization for a craft classification in the Project's geographic area. All changes to these hourly field labor rates must be submitted by the Contractor to the City for review and approval prior to billing the City for work performed with new hourly labor rates. Increase in labor rates is not an allowable increase in the GMP.

4.3 Contractor's Hourly Field Craft Labor Rates

- A. Based on the requirements and limitations of Sections; 3.1-Hourly Field Craft Labor, and 3.2- Hourly Field Craft Labor Rates Limitations, the undersigned Proposer provides their hourly field labor rates set forth in **Table 15-2** for all labor employed by Contractor used in the performance all of the Work for the West Side Tanks and Pump Station Project.
- B. The proposer is to list the crafts and classifications, up to foreman level, they anticipate using in the performance of the work when completing this **Table 15-2**. Should the contractor ultimately use a craft classification not listed in table below, the contractor will submit backup cost information for that craft classification to the city.
- C. Contractor shall include the actual travel and/or subsistence costs, if any, as a separate line item under the labor cost category when submitting progress billings to the City. Except as otherwise may be agreed to in writing by the City, the actual travel and/or subsistence costs will not be more than established in an applicable Master Labor Agreement or the State of California Department of Industrial Relations.

ATTACHMENT 15 - TABLE 15-2

Proposer's Name: Auburn Constructors LLC

Hourly Field Labor Rates Table
West Side Tanks and Pump Station Project

Craft	Classification	Base Wage	Fringes & Vacation	P/R Tax & Insurance	Straight Time Hourly Rate	Overtime Rates	
						Daily/Saturday Rate (1-1/2 X)	Sunday/Holiday Rate (2 X)
CARPENTER (Area 3) 7/1/19 to 6/30/20	Foreman	\$51.00	\$29.21	\$ 8.04	\$ 88.25	\$ 116.30	\$ 144.35
	Journeyman - Leadman	\$47.00	\$29.21	\$ 7.41	\$ 83.62	\$ 109.47	\$ 135.32
	Journeyman	\$46.00	\$29.21	\$ 7.25	\$ 82.46	\$ 107.76	\$ 133.06
MILLWRIGHT (Area 3) 7/1/19 to 6/30/20	Foreman	\$52.22	\$31.09	\$ 8.23	\$ 91.54	\$ 120.26	\$ 148.98
	Journeyman	\$48.22	\$31.09	\$ 7.60	\$ 86.91	\$ 113.43	\$ 139.95
CEMENT MASON 7/1/19 to 6/30/20	Foreman	\$46.39	\$22.88	\$ 7.40	\$ 76.67	\$ 102.18	\$ 127.70
	Journeyman-Leadman	\$41.63	\$22.88	\$ 6.64	\$ 71.15	\$ 94.05	\$ 116.94
	Journeyman	\$40.63	\$22.88	\$ 6.48	\$ 69.99	\$ 92.34	\$ 114.68
OPERATOR (Area 1) 6/24/19 to 6/23/20	Lg Crane-Gp 2A (Over 45 tn to 100 tn)	\$49.24	\$30.13	\$ 6.66	\$ 86.03	\$ 113.11	\$ 140.20
	Backhoe/Excavator (Group 3)	\$47.11	\$30.13	\$ 6.37	\$ 83.61	\$ 109.52	\$ 135.43
	Crane (Group 3A) (45 Ton & under)	\$47.50	\$30.13	\$ 6.43	\$ 84.06	\$ 110.18	\$ 136.31
	Loader (Group 4)	\$45.73	\$30.13	\$ 6.19	\$ 82.05	\$ 107.20	\$ 132.35
	Compactor (Group 5)	\$44.46	\$30.13	\$ 6.02	\$ 80.61	\$ 105.06	\$ 129.51
	Boomtruck (Group 7)	\$42.00	\$30.13	\$ 5.68	\$ 77.81	\$ 100.91	\$ 124.01
	Specialist-Foreman	\$51.00	\$22.75	\$ 6.90	\$ 80.65	\$ 108.70	\$ 136.75
LABORER (Area 2) 7/1/19 to 6/30/20	Specialist-Leadman 1	\$37.85	\$18.60	\$ 5.12	\$ 61.57	\$ 82.39	\$ 103.21
	Specialist-Leadman 2	\$37.85	\$20.95	\$ 5.12	\$ 63.92	\$ 84.74	\$ 105.56
	Specialist-Journeyman	\$33.60	\$22.85	\$ 4.55	\$ 61.00	\$ 79.48	\$ 97.96
	Journeyman - Group 2	\$36.14	\$26.33	\$ 4.89	\$ 67.36	\$ 87.24	\$ 107.11
TEAMSTER 7/1/19 to 6/30/20	Journeyman - Group 3	\$36.44	\$26.33	\$ 4.93	\$ 67.70	\$ 87.74	\$ 107.78
	Inside Wireman - Foreman	\$48.18	\$28.34	\$ 5.92	\$ 82.44	\$ 108.94	\$ 135.43
	Inside Wireman - Journeyman	\$44.18	\$28.34	\$ 5.43	\$ 77.95	\$ 102.24	\$ 126.54
INSIDE WIREMAN (Placer County) 2/1/20 to 7/31/20							

4.4 Management and Administrative Labor

- A. Wages and Salaries of Contractor's supervisory and administrative personnel assigned to this Project to directly manage and administer the Work: These positions may include a Principal-in-Charge, On-site Project Manager, On-site Project Engineer, On-site Superintendents, Yardman/Delivery Driver and On-site Administrative Assistant. These positions will be paid in accordance with the following Table 3 for entire duration of the Project and include all labor burden, overhead and profit mark-ups. The Principal-in-Charge can only charge for hours worked at the Site for this Project and can also charge for attendance of on-site Project Meetings. Any off-site Principal-in-Charge time spent on this Project shall be included in the Contractor's Fee Schedule for the Project under the Contractor's Fee subsection below.
- B. The Contractor is allowed to charge up to a maximum of fifty (50) hours per week for each full-time assigned supervisory and administrative personnel even if an employee works more than fifty (50) hours in a week. The Contractor can only charge for supervisory and administrative hours if they also pay those same hours to the employee that worked up to fifty (50) hours in any given week. The Contractor is not allowed to charge for any supervisory and administrative personnel hours not paid to any employee.

Other company personnel such as Corporate Officers and Division/Area Managers (unless either are designated as the Principle-in-Charge), Quality Control Managers, Safety Officers, Project Schedulers, Project Coordinators, Estimators, Business Supervisors and Accountants are not allowed to charge any hours to the Project. The Proposer should include the anticipated cost of such personnel in the Contractor's Fee Schedule for the Project under the Contractor's Fee Subsection 5.0 below.

- C. Based on the above requirements for Management and Administrative Labor, the undersigned Proposer proposes the rates set forth in **Table 15-3** for all Management and Administrative labor employed by Contractor used in the performance all of the Work for the West Side Tanks and Pump Station Project.

Table 15-3: Management and Administrative Labor Rates

Management and Administrative Position	Hourly Rate
Principal-in-Charge	\$ 125.00
Project Manager	\$ 115.00
Electrical Project Manager	\$ 115.00
Assistant Project Manager	\$ 112.00
Electrical Superintendent	\$ 110.00
Yard Man/Delivery Driver	\$ 45.00

4.5 Materials

The cost of all materials, including all factory testing, freight and delivery costs of materials, used in performing the work will be the cost to the Contractor from the supplier thereof. All discounts for early payment shall accrue to the Contractor unless the City's payment to Contractor is paid to Contractor before discount payment is due in which case discount savings will be fully credited to the City on next progress billing. All rebates and all returns from the sale of surplus materials shall be credited to the Cost of the Work. Any rebates from future use of re-usable materials, such as concrete forming materials, shall be negotiated between the Contractor and City as materials are evaluated for possible Contractor re-use on other projects.

4.6 Construction Equipment

- A. The undersigned Proposer proposes the initial Contractor Owned Equipment Rates set forth in Table 15-4 for all Contractor Owned Equipment used in the performance all of the Work for the West Side Tanks and Pump Station Project. The rates found in this table for equipment owned by the Contractor will, in all cases, be understood to cover all fuel, supplies, repairs, maintenance, insurance, ownership, and incidental costs and no further allowances will be made for those items, unless specifically approved in writing by the City.
- B. Equipment owned by Contractor will only be paid for the actual time equipment is used in performing work and will be rounded to the closest full hour if paid by an hourly rate.
- C. Compensation for idle time of equipment through delays caused by the City will be made consistent with Article 9-Changes in the Work in the Design-Assist Agreement, provided as Volume 2 to the Contract Documents; however, that the Owned Equipment Rates set forth below in Table 15-4 will apply.
- D. All changes to these equipment rates must be submitted by the Contractor to the City for review and approval prior to billing the City for work performed with new hourly labor rates. Approved changes to equipment rates are not an allowable increase in the GMP.
- E. The Proposer is to list the contractor owned construction equipment they anticipate using in the performance of the work when completing this table. Should the contractor ultimately use equipment not listed in table below, the contractor will submit backup cost information for that equipment item to the City for approval.
- F. Equipment not owned by Contractor which is rented by Contractor and used in performing work will be paid by the City based on actual invoiced cost to Contractor, plus actual fuel/lube costs, provided the rental rate is not in excess of rental rates established by distributors or equipment rental companies in the local area. Owner-operated equipment will also be paid by the City based on actual invoiced cost to Contractor provided the City does not deem any charges excessive. All transportation costs to move equipment on and off the Work will be paid by the City up to a maximum of four (4) hours total travel time each way.
- G. For equipment with a value less than \$500.00: The Contractor will be paid an amount of three percent (3%) of total hourly field labor costs as defined in paragraph 3.3-Contractor's Hourly Field Craft Labor Rates above to cover the cost of small tools and safety supplies for work directly performed at the Site.

Table 15-4: Contractor Owned Equipment. Contractor Name: Auburn Constructors LLC

Equipment Description	Hourly Rate	Daily Rate
1/2 Ton Pick-Up	13.00	
3/4 Ton Pick-Up	16.00	
1 Ton Pick-Up with lift gate	17.00	
Backhoe/Loader	50.00	
XUV Gator	10.00	
All Terrain Reach Lift	55.00	
Air Compressor/Breaker	35.00	
Power Sweeper	45.00	
Water Truck	25.00	
500 Gallon Water Wagon	10.00	
Sandblast Equipment		110.00
Spyder Crane		400.00
Honda Portable Generator		80.00
Hi-Cycle Generator		60.00
25 KW Diesel Generator		250.00

Attach additional sheets as needed.

3.7 Subcontractors and Sub Tier Subcontractors

The Contractor will be paid for all work performed by a subcontractor at the actual invoiced amount. Should a Subcontractor be required to perform extra work caused by a contract change order, the subcontractor will be allowed a mark-up as provided for in the General Conditions.

3.8 Bonds and Insurance

The Contractor will be paid the actual cost for the 100% payment bond and 100% performance bond, as well as the cost of all insurance costs required for the Work (such costs are deemed a Cost of Work and are therefore contained within the GMP). Additional details regarding requirements for Bonds and Insurance are included in Volume 2 of the Contract Documents – Agreement Article 11 – Insurance and Bonds; Indemnification.

Table 15-4: Contractor Owned Equipment. Contractor Name: Auburn Constructors LLC

Equipment Description	Hourly Rate	Daily Rate
3" Trash Pump		75.00
Large Conduit Bender		35.00
Large Pipe Threader		35.00
Large Wire Tugger		55.00
Termination Lug Compression Equipment		85.00
Construction Laser		50.00
Vibratory Plate Compactor		75.00
Air Tamper		52.00
Power Trowel		90.00
Welder		60.00
Concrete Saw		75.00

Attach additional sheets as needed.

3.7 Subcontractors and Sub Tier Subcontractors

The Contractor will be paid for all work performed by a subcontractor at the actual invoiced amount. Should a Subcontractor be required to perform extra work caused by a contract change order, the subcontractor will be allowed a mark-up as provided for in the General Conditions.

3.8 Bonds and Insurance

The Contractor will be paid the actual cost for the 100% payment bond and 100% performance bond, as well as the cost of all insurance costs required for the Work (such costs are deemed a Cost of Work and are therefore contained within the GMP). Additional details regarding requirements for Bonds and Insurance are included in Volume 2 of the Contract Documents – Agreement Article 11 – Insurance and Bonds; Indemnification.

3.9 Direct Job Overhead Expenses

The Contractor will be paid for the actual cost of job overhead expenses which may include such expenses as office trailers, storage vans, temporary fencing/security, toilets, dumpsters, waste removal, water, utility power, jobsite landline telephone costs, jobsite internet provider costs, reasonable room and board subsistence for employees who live farther than 40 miles from the Work Site or as required by California prevailing wage laws, copy machine, water cooler and any office furniture required for the Work needs, including mobilization and demobilization of same. There will be no warranty reserve.

3.10 Taxes

The Contractor acknowledges it will be liable for all sales, use, gross receipts or other taxes, tariffs or duties related to the Work and that these taxes and tariffs are included in the GMP. All invoices to the City will include the applicable taxes and tariffs that are the Contractor's responsibility and will not be shown as a separate line item on the Contractor's invoice.

4.0 CALIFORNIA LABOR CODE SECTION 6707

Pursuant to the provisions of California Labor Code Section 6707, each Proposal submitted in response to this RFP shall contain, as a separate cost item, adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life or limb in trenches and open excavation, exceeding five (5) feet, which shall conform to applicable safety orders. By entering an amount for this cost item below, the Proposer warrants that its action does not convey tort liability to the City, the Engineer, the Construction Manager, the Funding Agencies and their respective officers, employees, agents, and subconsultants.

Table 15-5: Total Amount for Worker Protection for CA Labor Code Section 6707

Protection in trenches and Open Excavations - Description	Total Cost
Twenty Five Thousand Dollars	\$ 25,000

5.0 SPECIAL SERVICES

Special work or services are defined as that work not included in this agreement and characterized by extraordinary complexity, sophistication, or innovation or a combination of the foregoing attributes which are unique to the construction industry. These special services may include such services as registered land surveyor, licensed geotechnical engineer, licensed structural engineer, special testing or laboratory work. The Contractor will be paid for special services based on actual invoiced cost, provided the City does not determine any special services costs to be excessive.

6.0 VOLUNTARY PROPOSER ALLOWANCES

The Proposer is allowed to propose allowances for minor portions of the Work. Proposers are limited to a maximum of three (3) proposed allowances and the total amount for all proposed allowances cannot exceed One Hundred Fifty Thousand Dollars (\$150,000.00).

Each proposed allowance description should be well-defined. There is no scoring points assigned to any proposed allowances, but they may be discussed during the final negotiations with the highest ranked

Proposer. Proposers are not required to propose an allowance item; it is strictly voluntary. Allowances shall not be considered for compensation as defined in Attachment 16 – PROPOSED SHARED SAVINGS.

The following Proposer's cost allowances and allowance amounts are included in the GMP:

Table 15-6: Proposer's Cost Allowances

Item#	Allowance Description	Allowance Amount
1	None	\$ 0
2	None	\$ 0
3	None	\$ 0
Total of Allowances:		\$ 0

7.0 ITEMS NOT INCLUDED IN THE COST OF WORK:

- A. Salaries and other compensation of Contractor's personnel stationed at Contractor's principal office or offices other than the Site, except as specifically provided in this Attachment 15 Section 3.4 – Management and Administrative Labor.
- B. Expenses of Contractor's principal office and offices, other than the Site office.
- C. Contractor's General Overhead and Expenses, except as specifically provided for in the Contract Documents.
- D. The capital expenses of Contractor, including interest on capital employed for the Work and charges to Contractor for delinquent payments.
- E. Hours in excess of fifty (50) hours per week for each full-time assigned supervisory and administrative personnel even if a supervisory or administrative employee works more than fifty (50) hours in a week.
- F. Costs due to correction of Defective Work, disposal of materials or equipment wrongfully supplied, and making good any damage to property.
- G. Costs that would cause the GMP to be exceeded.
- H. Any costs incurred after Owner's Final Acceptance of the Project.

8.0 CONTRACTOR'S FEE MARKUPS

- A. The undersigned Proposer proposes the following mark-up fees for general overhead and profit in the performance all of the Work for the West Side Tanks and Pump Station Project as shown in Table 15-7.

Table 15-7: Contractor's Fee Mark-up Schedule

Attachment 15 Section	Cost Category	Fee Mark-Ups For General Overhead And Profit
3.1-3.3	Hourly Field Labor	8.50 %
3.4	Management and Administrative Labor	Included in hourly rates
3.5	Materials	8.50 %
3.6	Construction Equipment	8.50 %
3.7	Subcontractors	8.50 %
3.8	Bonds and Insurance	8.50 %
3.9	Direct Job Overhead Expenses	8.50 %
3.10	Taxes	8.50 %

- B. Based on the above percentages for each cost category, the Proposed Total Fee Markup-for General Overhead and Profit percentage included in the Contractor's GMP is 8.50 %.

****END OF ATTACHMENT 15****

Attachment 16 – PROPOSED SHARED SAVINGS

West Side Tanks and Pump Station

In the event the final Cost of Work, plus the Proposed Total Fee Mark-up for General Overhead and Profit, is less than the GMP, as adjusted by the Change Orders, the undersigned Proposer proposes a sharing of the savings as follows.

<u>70</u>	% of the savings to the City
<u>30</u>	% of the savings to the Contractor

Percent of Savings to the contractor must be a minimum of 20% plus the Total Fee Markup percentage for General Overhead and Profit as shown in the GMP (Attachment 15, Paragraph 7.0.B).

Should there be savings shared, City will pay the Contractor its share of the savings at the same time as the final retention payment.

****END OF ATTACHMENT 16****

EXHIBIT D - CONSTRUCTION ALLOWANCE ITEMS AND AMOUNTS

(NOT USED)

END OF EXHIBIT D

EXHIBIT E - HAZARDOUS MATERIALS

A. Certain Definitions.

1. “Hazardous Materials” means any substance:

- 1.1. The presence of which requires investigation or remediation under federal, state or local law, statute, regulation, ordinance, order, action, policy or common law;
- 1.2. Which is or becomes defined as a “hazardous waste,” “hazardous substance,” pollutant or contaminant under any federal, state or local law, statute, regulation, rule or ordinance or amendments thereto, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act, 42 USC §§9601 et seq. (“CERCLA”), as amended, or the Resource, Conservation and Recovery Act, as amended, 42 USC §§6901 et seq. (“RCRA”);
- 1.3. Shall include the meaning provided in Section 100 of the Solid Waste Disposal Act (42 USC Section 6903 and/or Section 25117 of the California Health and Safety Code) as amended from time to time, or any other hazardous material, hazardous waste, hazardous substance, pollutant, and/or contaminant with requirements under federal, State of California, or local law, statute, regulation, rule, ordinance, order, action, policy or common law;
- 1.4. Which is petroleum, including crude oil or any fraction thereof not otherwise designated as a “hazardous substance” under CERCLA, including without limitation gasoline, diesel fuel or other petroleum hydrocarbons;
- 1.5. Which is toxic, explosive, corrosive, flammable, infectious, radioactive, carcinogenic, mutagenic, or otherwise hazardous and is or becomes regulated by any governmental authority or instrumentality;
- 1.6. The presence of which on the Site causes or threatens to cause a nuisance upon the Site or to the adjacent properties or poses or threatens to pose a hazard to the health or safety of persons on or about the Site; or
- 1.7. The presence of which on adjacent properties could constitute a trespass by CONTRACTOR or CITY.

2. “Underground Storage Tank” shall have the definition assigned to that term by RCRA §9001, 42 USC §6991, and also shall include:

- 2.1. Any tank of 1,100 gallons or less capacity used for storing motor fuel;
- 2.2. Any tank used for storing heating oil for consumption on the premises where stored;
- 2.3. Any septic tank; and any pipes connected to items A.2.1-A.2.3.

3. “Environmental Requirements” means all Applicable Laws, statutes, regulations, rules, ordinances, codes, licenses, permits, orders and similar items of all federal, state or local governmental agencies or other instrumentalities and all applicable judicial, administrative and regulatory decrees, judgments and orders relating to the protection of human health or the environment, including, without limitation:

- 3.1. All requirements, including but not limited to, those pertaining to reporting,

licensing, permitting, investigation and remediation of emissions, discharges, releases or threatened releases of Hazardous Materials into the air, surface water, ground water or land, or relating to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Hazardous Materials; and

3.2. All requirements pertaining to the protection of the health and safety of employees or the public.

4. **“Environmental Damages”** means all claims, judgments, damages, losses, penalties, fines, liabilities, encumbrances, liens, costs and expenses of investigation and defense of any claim, including, without limitation, attorney's fees, which are incurred at any time as a result of the existence of Hazardous Materials upon, about or beneath the Site or migrating or threatening to migrate to or from the Site, and including, without limitation:

4.1. Damages for personal injury, or injury to property or to natural resources occurring upon or off the Site;

4.2. Fees incurred for the services of attorneys, consultants, CONTRACTOR, experts, laboratories and all other costs incurred in connection with the investigation or remediation of such Hazardous Materials or violation of Environmental Requirements; and

4.3. Liability to any third party or governmental agency or political subdivision to indemnify such party, agency or political subdivision for costs expended in connection with the items listed in subparagraph A.4.2.

5. **“Environmental Conditions”** means collectively, Hazardous Materials and Underground Storage Tanks existing on the Site and not brought there by CONTRACTOR or any Subcontractor.

B. Investigation of Site.

1. Upon written notice from CITY, CONTRACTOR shall prepare for approval and execution by CITY, one or more contracts (“Environmental Contracts”) with suitably qualified consultants and/or engineers (“Environmental Engineers”), for purposes of performing an investigation and analysis of the Site prior to demolition and excavation activities, to determine the presence of any Environmental Conditions on, in or under the Site. The Environmental Contracts shall provide for a commercially reasonable scope of investigation approved by CITY, and may provide for conducting the investigation and testing in phases acceptable to CITY. The Environmental Contracts shall also provide that the Environmental Engineers shall begin their tests and inspections at the Site as soon as CITY is able to arrange access to the Site, or any portions thereof, for such purposes. The Environmental Contracts shall provide that CONTRACTOR, acting as agent of CITY, shall coordinate the activities of the Environmental Engineers.

2. The Environmental Contracts shall provide that the Environmental Engineers shall prepare such reports, feasibility studies and remedial plans (“Environmental Assessments”) as may be reasonably necessary in order to identify and explain the quantity, scope and nature of the Environmental Conditions found to exist at the Site. The Environmental Assessments shall contain a detailed analysis of the Environmental Conditions discovered, and the actions (“Remedial Actions”) required for the response, removal, cleanup or remediation of such Environmental Conditions (i) which are required by Environmental Requirements, or (ii) which are reasonably necessary to

mitigate Environmental Damages.

3. The Environmental Contracts shall provide that the Environmental Engineers shall promptly provide CITY and CONTRACTOR with a copy of each Environmental Assessment, together with any other reports and test results generated pursuant to the Environmental Contracts. CONTRACTOR shall, promptly after receipt of the foregoing matters from the Environmental Engineers, prepare and submit to CITY a written report setting forth CONTRACTOR's understanding of whether and to what extent any recommended Remedial Actions may result in an amendment to the Schedule and the progress of the Work.
4. The Environmental Contracts shall provide that it shall be the responsibility of the Environmental Engineers to give any necessary notice to the appropriate regulatory agency or agencies of the presence of any Environmental Conditions; to pursue all necessary negotiations with such agencies concerning preparation and approval of a plan for clean-up to the extent required; and to obtain all necessary permits to perform any Remedial Actions.

C. Remedial Actions.

1. If so instructed by CITY, based upon the results of the Environmental Assessments, CONTRACTOR shall, as agent for CITY, obtain bids from remediation contractors ("Remediation Contractors") suitably qualified and approved by CITY, to perform the Remedial Actions selected by CITY and shall submit such bids to CITY, together with CONTRACTOR's recommendation of the Remediation Contractor(s) to be retained. If CITY elects to go forward with all or any portion of the Remedial Actions covered by the bids submitted, CITY will so advise CONTRACTOR in a written notice on or before the date which is sixty (60) Days after receipt of the foregoing matters from CONTRACTOR. Promptly after receipt of such notice, CONTRACTOR shall prepare for CITY's execution remediation contracts ("Remediation Contracts") with the Remediation Contractors identified in such notice.
2. CONTRACTOR, as agent for CITY, shall be responsible for coordinating the work and services performed by the Remediation Contractors, and coordinating such remediation work with the Work.
3. If in the course of performance of the Work, CONTRACTOR encounters on the Site any Hazardous Materials not previously disclosed and remediated by the Environmental Engineers or the Remediation Contractors, CONTRACTOR shall immediately suspend the Work in the area affected and promptly thereafter report the condition to CITY.

D. Payments: Liability of CONTRACTOR.

1. All payments due under the Environmental Contracts and the Remediation Contracts shall be made by CITY directly to the Environmental Engineers and the Remediation Contractors. Such payments will be based on requisitions, which requisitions shall be approved by CONTRACTOR prior to submission to CITY.
2. All payments due under the Environmental Contracts, the Remediation Contracts and for Environmental Damages, shall not be a part of the GMP, and shall be the sole responsibility of CITY, except as expressly provided otherwise in Section 5 hereof.
3. It is understood and agreed that with respect to any Environmental Conditions existing on the Site, CONTRACTOR is not, and shall not be deemed to be, a generator, arranger, operator, treater, storer, transporter or disposer of, or otherwise responsible for, any such Environmental Conditions. It is understood and agreed that CONTRACTOR shall

have no right to direct the means or methods of performance of any Environmental Engineer or Remediation Contractor.

4. CITY shall indemnify, defend and hold harmless CONTRACTOR, from and against any Environmental Damages asserted against or sustained by CONTRACTOR as a result of CONTRACTOR being deemed or determined to be a generator, arranger, operator, treater, storer, transporter or disposer of, or otherwise responsible for, any such Environmental Conditions.

E. Environmental Responsibilities of CONTRACTOR.

1. CITY acknowledges and agrees that CONTRACTOR shall not commence or continue any demolition or construction activities on any portion of the Site on or in which Remedial Actions are to be performed until such Remedial Actions are to the point where construction activities will not interfere with such Remedial Actions, as evidenced by appropriate certification by the applicable Environmental Engineer and/or Remediation CONTRACTOR and any required approval of any applicable government agency. CONTRACTOR agrees to use good faith diligent efforts to adjust and reschedule its activities at the Site so as to minimize, to the extent reasonably practical, the adverse effect on the progress of the Work resulting from any Remedial Actions.
2. CONTRACTOR shall not bring Hazardous Materials to the Site, and shall not include Hazardous Materials in any construction materials, unless permitted by Environmental Requirements. CONTRACTOR shall comply, and shall cause all Subcontractors to comply, with all Environmental Requirements regarding the generation, handling, storage, treatment and disposal of Hazardous Materials.
3. CONTRACTOR shall indemnify, defend and hold harmless the Indemnified Parties from and against any Environmental Damages asserted against or sustained by such parties as a result of any Environmental Conditions caused or created by CONTRACTOR or any Subcontractor, or of any violation by CONTRACTOR or the Subcontractors, of any Environmental Requirement arising out of the performance of the Work.

END OF EXHIBIT E-HAZARDOUS MATERIALS

EXHIBIT F - IN LIEU OF SECURITIES ESCROW AGREEMENT

Pursuant to Section 22300 of the Public Contract Code of the State of California, CONTRACTOR has the option to deposit securities, subject to prior approval of CITY, with ESCROW AGENT, as a substitute for retention earnings required to be withheld by CITY pursuant to the contract for public works entered into between the CITY and CONTRACTOR.

For the West Side Tanks and Pump Station Project CONTRACTOR, Auburn Constructors, elects to not exercise this option and agrees that retention earnings be held by CITY.

CITY OF ROSEVILLE, a
municipal corporation:

BY: _____

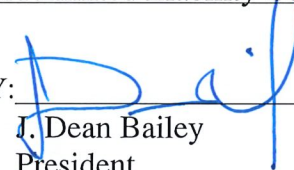
DOMINICK CASEY

CITY Manager

ATTEST:

CONTRACTOR:

Auburn Constructors, LLC, a
CA Limited Liability Company

BY:  _____

J. Dean Bailey
President

its: _____

BY: _____

SONIA OROZCO

CITY Clerk

APPROVED AS TO FORM:

BY: _____

ROBERT R. SCHMITT

CITY Attorney

END OF DOCUMENT-IN LIEU OF SECURITIES ESCROW AGREEMENT

EXHIBIT G - BONDS

There are three (3) bond forms that constitute Exhibit G following this index sheet.

1. Performance Bond
2. Labor and Material Bond
3. Warranty Bond

EXHIBIT H - COMPLETION TIMES AND LIQUIDATED DAMAGES

West Side Tanks and Pump Station Project

A. Project Milestones

Following are scope descriptions for substantial completion of project milestones.

1. **Milestone 1:** Electrical and Controls Hardware Factory Testing. CITY intends to complete Application Programmer work in parallel with Contractor provided Electrical Contractor and System Integrator work as defined in Section 16010. To ensure successful coordination and timely execution of the work, Contractor and their Electrical Contractor and System Integrator shall work proactively with City to support this effort. Contractor will perform all work necessary to complete Electrical and Controls Hardware Factor Testing, as described in Section 16600-3.01, in advance of this Milestone.
2. **Milestone 2:** Grading and Site Preparation for Future Crew Building. CITY intends to initiate construction of the Operations/Crew building that is indicated on the Plans before the completion of this project. Contractor will complete site grading and drainage improvements for the future Operations/Crew building area and evacuate their equipment, staging area, and all other uses of this area.
3. **Milestone 3:** Substantial Completion in accordance with Article 8.13 and City has accepted a partial Certificate of substantial completion and punch list. Determination of Substantial Completion is solely at the discretion of the CITY.
4. **Milestone 4:** Final Completion in accordance with Article 8.14 and City has initiated the process of attaining a Notice of Completion. Determination of Final Completion is solely at the discretion of the CITY.

B. Times Allowed for Completion

In accordance with the provisions of Article 7-TIME AND PROGRESS OF WORK, the following table summarizes the scope of work milestones and the contracted completion time. Each milestone shall be completed within the number of consecutive calendar days from the date established in the Notice to Proceed for the commencement of Contract Time.

Table H-1: Times Allowed for Completion of Each Project Milestone

Contractual Completion Event	Completion Time (Calendar Days)
Milestone 1: Electrical and Controls Hardware Factory Testing	330
Milestone 2: Grading and Site Work for Future Crew Building	500
Milestone 3: Substantial Completion	770
Milestone 4: Final Completion	865

C. Damages for Delays

In accordance with the provisions of Article 7-TIME AND PROGRESS OF WORK for the period of time that any portion of the Work remains unfinished after the time fixed in above Table H-1: Times Allowed

for Completion of Each Project Milestone, as modified by extensions of time granted by the Owner, it is understood and agreed by the Contractor and the Owner that the Contractor shall pay the Owner the liquidated damages listed below.

Table H-2: Daily Liquidated Damages for Non-Completion of Each Project Milestone

Contractual Completion Event	Daily Liquidated Damages
Milestone 1: SCADA & PLC Factory Testing	\$1,500
Milestone 2: Grading and Site Work for Future Crew Building	\$ 800
Milestone 3: Substantial Completion	\$1,500
Milestone 3: Final Completion	\$1,000

D. Weather Days

In accordance with the provisions of Article 7-TIME AND PROGRESS OF WORK, an allowance of twenty (20) working days of weather or other caused Excusable Delays are included in the time allowed for completion. This allowance represents a reasonable assessment of anticipated lost working days based on historical weather patterns. These weather days shall be included in the Contractor's schedule as specified in Technical Specifications Section 01320-PROGRESS SCHEDULES.

END OF EXHIBIT H

City of Roseville

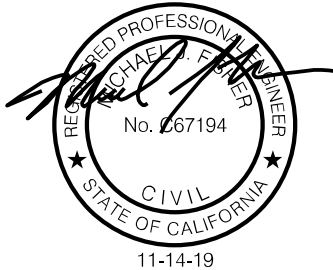
CONTRACT DOCUMENTS FOR DESIGN-ASSIST AND CONSTRUCTION OF

WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)

VOLUME 3 OF 4: SPECIFICATIONS (DIVISIONS 1-16)

November 2019

Final Design Submittal Not for Construction



ENGINEER:



WATER WORKS ENGINEERS, LLC.

CONTACT:

Mike Fisher
(916) 780-2888 Extension 401

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11268		Reservoir Hydrodynamic Mixing System
11405		Chemical Metering Pump System
DIVISION	12	NOT USED
DIVISION	13	
13205		High Density Polyethylene Storage Tanks
13251		Bladder-Type Hydropneumatic Tank
DIVISION	14	NOT USED

DIVISION 15

15010	Piping Support Systems
15080	Piping Insulation
15100	Pipe and Fittings
15100 PSDS BSP	Black Steel Pipe
15100 PSDS CHE	Chemical Tubing and Conduit
15100 PSDS COP	Copper Pipe
15100 PSDS CPVC	Solvent Welded Chlorinated Polyvinyl Chloride Pipe
15100 PSDS DIP	Ductile Iron Pipe
15100 PSDS HDPE1	High Density Polyethylene Dual Wall Solid Drainage Pipe
15100 PSDS HDPE2	High Density Polyethylene Perforated Dual Wall Drainage Pipe
15100 PSDS PVC1	Solvent Welded Polyvinyl Chloride Pipe
15100 PSDS PVC2	Polyvinyl Chloride Pressure Pipe
15100 PSDS PVC3	PVC Drain Waste and Vent Pipe
15100 PSDS PVC4	Polyvinyl Chloride Gravity Sewer Pipe
15100 PSDS SSTP	Stainless Steel Pipe
15100 PSDS SSTT	Stainless Steel Tubing
15100 PSDS VCP	Vitrified Clay Pipe
15100 PSDS WSP	Welded Steel Pipe
15100 PSDS WSSTP	Welded Stainless Steel Pipe
15120	Piping Specialties
15200	Valves and Operators
15200 VS	Valve Schedule
15400	Plumbing Fixtures
15500	HVAC Equipment
15501	Ductwork and Accessories
15600	Testing, Adjusting and Balancing HVAC Systems
15990	Testing of Pressure Piping Systems
15995	Disinfection of Potable Water Systems

DIVISION 16

16010	Electrical General
16110	Conduit and Boxes
16120	Low Voltage Wire & Data Cable
16210	Engine Generator
16250	Automatic Transfer Switch
16430	Low Voltage Switchboard
16450	Grounding
16470	Panelboard and Power Transformer
16481	Variable Frequency Drive
16482	Solid State Soft Starter
16600	Factory and Field Testing
16905	Control Panels
16910	PLC Hardware
16931	Security System
16932	Access Control System
16933	Video Monitoring System
16940	Instrumentation

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SECTION 01110

SUMMARY OF WORK

PART 1 - GENERAL

1.1 DEFINITIONS AND CONTRACT PROVISIONS

- A. The term "Contract Documents" used throughout the Specifications and Drawings is equivalent to "Agreement" as defined in the Design-Assist Construction Agreement.
- B. The term "Construction Manager" used throughout the Specifications and Drawings is as defined in the Agreement.
 - 1. As it pertains the Specifications and Drawings, the Construction Manager may assign part of the Construction Manager's duties, rights and responsibilities to "Architect/Engineer".
- C. The term "Drawings" used throughout the Specifications and Drawings is equivalent to "Plans" as defined in the Agreement.
- D. The term "Engineer" or "ENGINEER" used throughout the Specifications and Drawings is equivalent to "Architect/Engineer" as defined in the Agreement.
- E. The "Final Design Submittal" refers to the Specifications and Drawings included as attachments to the Request for Proposals to describe the Work. These documents will be modified during the Design-Assist process to produce Construction Documents.
- F. The term "Owner" or "OWNER" used throughout the Specifications and Drawings is equivalent to "CITY" as defined in the Agreement.
- G. Refer to the Agreement for definitions and contract provisions not included in the Specifications or Drawings.

1.2 LOCATION AND DESCRIPTION OF WORK

- A. The Work is located at 4501 Westpark Drive in Roseville, California 95747.
- B. The Work covers the construction of the West Side Tank and Pump Station as generally described below and as shown on the Drawings and Specifications:
 - 1. Water Storage Tanks:
 - a. Over excavation beneath tanks and installation of mechanical stabilized earth (MSE) foundation improvement system to provide suitable subgrade conditions for tank construction.
 - b. Construction of two (2) 6.0 MG at-grade pre-stressed concrete water storage tanks with flat concrete roofs. Each tank will be identically sized at 170 ft diameter with 40 ft sidewall height.
 - c. Installation of two access hatches, roof vent, interior and exterior access ladders, and electric davit cranes at each tank.
 - d. Installation of leak detection system with PVC liner and perforated piping.
 - e. Installation of wall drain piping.
 - f. Installation of downspouts from roof of each tank for rainwater collection.
 - g. Installation of hydrodynamic tank mixing system in each tank.

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- h. Installation of internal and external overflow piping and supports at each tank.
- i. Installation of sump in floor of each tank with drain piping and valves.
- j. Installation of water sample station at each tank.
- 2. Tank Valve Vault:
 - a. Construction of new cast-in-place concrete valve vault with structural supports and grating.
 - b. Installation of seven (7) butterfly valves and two (2) check valves associated with tank inlet and outlet. This piping and valve arrangement allow the two tanks to be operated in parallel, in series, or independently taken offline for maintenance.
- 3. Booster Pump Station:
 - a. Construction of 2,537 sq. ft CMU block Booster Pump Station building to house booster pumps, sodium hypochlorite storage and feed system, and electrical and control equipment.
 - b. Installation of architectural canopies over exterior electrical switchgear and valve vault.
 - c. Installation of coiling overhead door for vehicle access into pump room.
 - d. Installation of evaporative cooling for pump room and air conditioning for electrical room.
 - e. Installation of trench drains for building drainage and small diameter pipe routing.
 - f. Installation of roof hatches over all pumps with winch operated rigging to allow operators to open hatches from ground level.
 - g. Construction of valve vault outside of building for suction-side pump isolation valves.
 - h. Installation of four (4) 250 hp vertical turbine booster pumps (3 duty plus 1 standby) set in below-grade suction barrels. Each pump shall have a design capacity of 3,800 gpm at 170 ft TDH.
 - i. Installation of 16-inch electronic control valve for tank filling and pressure relief.
 - j. Installation of piping, pipe supports, valves and appurtenances associated with pumping system.
 - k. Installation of sample pump for tank outlet chlorine residual analyzer.
 - l. Installation of 500-gallon dual contained sodium hypochlorite storage tank.
 - m. Installation of skid-mounted progressive cavity sodium hypochlorite metering pumping system.
 - n. Installation of two (2) emergency eyewash and shower systems with tepid water system.
 - o. Installation of 2,000-gallon bladder-style hydropneumatic tank and associated piping, pipe supports, valves and foundation.
- 4. Electrical:
 - a. All Electrical Contractor work, including coordination with electric utility and installation of electric service to site including transformer, conduit and wiring.
 - b. Installation of 1,500 kW standby diesel generator, dual-contained fuel tank, load bank and access stairs and platforms.
 - c. Installation of exterior switchboard at Booster Pump Station.
 - d. Installation of interior automatic transfer switch, distribution sections, panelboard, transformer, control panel and security panel in electrical room of Booster Pump Station.
 - e. Installation of two (2) 250 hp variable frequency drives and two (2) reduced voltage soft starters in electrical room of Booster Pump Station.
 - f. Installation of light fixtures on and in the Booster Pump Station and light poles throughout the site.
 - g. Installation of all conduit, wire, supports, pullboxes, etc. to support the new system.

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5. Instrumentation and Controls:
 - a. All System Integrator work, including coordination and installation of programmable logic controller (PLC) and control panel to monitor and control the new system. Programming of PLC and SCADA will be provided by OWNER Application Programmer.
 - b. Installation of level measurement devices, ladder and hatch intrusion switches and power supply to davit cranes at each water storage tank.
 - c. Installation of level measurement devices in tank valve vault.
 - d. Installation of free chlorine residual analyzers for tank inlet and outlet sampling.
 - e. Installation of pressure transmitter on pump discharge header.
 - f. Installation of bi-directional 24-inch magnetic flowmeter for tank fill and pump discharge flow measurement.
 - g. Installation of site access and security system, including fiber optic network tied into Pleasant Grove WWTP Administration Building.
 - h. Installation of miscellaneous instrumentation.
6. Miscellaneous Site Work:
 - a. Installation of valve vault to tie into existing water distribution system with new 30-inch piping.
 - b. Installation of 30-inch tank fill, 42-inch tank outlet and miscellaneous yard piping, including sewer and storm drain manholes and catch basins.
 - c. Contractor design and installation of cathodic protection system, including all anodes, test stations, insulating flanges, etc.
 - d. Site grading and construction of curbs, gutters and paving.
 - e. Construction of lined bioretention basins for stormwater treatment prior to discharge to existing storm drain system.
 - f. Construction of CMU block wall and chain-link fencing around site perimeter.
 - g. Construction of steel fencing at main site entrance with automatic gate and single-leaf gate for pedestrian access.
 - h. Connecting to existing recycled water distribution system, installation irrigation system between Westpark Drive and new CMU block wall, planting shrubs and installing mulch.
 - i. Installation of and maintenance of site erosion control measures.
7. Project Management and Administration:
 - a. Preparing and providing submittals.
 - b. Maintaining project schedule.
 - c. Maintaining As-Built Contract Drawings on a continuous basis.
 - d. Preparing Requests for Information.
 - e. Startup, testing, training and project closeout tasks to provide a complete and functional system.

1.3 PROJECT DOCUMENTS

- A. The Work is described in the following project documents:
 1. Volume 1 – Request for Proposals
 2. Volume 2 – Sample Contract
 3. Volume 3 – Technical Specifications
 4. Volume 4 – Drawings
- B. Refer to the Request for Proposals for the following supplemental information referenced from the Drawings and Specifications:
 1. Geotechnical Report
 2. Stormwater Pollution Prevention Plan

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1.4 COORDINATION

- A. The CONTRACTOR shall be solely responsible for coordination of all of the Work of this Contract.
- B. The CONTRACTOR shall supervise, direct and cooperate fully with all Subcontractors, manufacturers, fabricators, suppliers, distributors, installers, testing agencies and all others whose services, materials or equipment are required to ensure completion of the Work within the Contract Time.
- C. Work of Others:
 - 1. The CONTRACTOR shall generally perform the Work according to the suggested sequence of construction as described in Section 01130, Special Project Constraints.
 - 2. The CONTRACTOR shall cooperate with and coordinate CONTRACTOR's Work with the work of any other contractor, utility service companies, or OWNER's representatives performing work at the site.
 - 3. The CONTRACTOR shall also coordinate their Work with the work of others to assure compliance with schedules.
 - 4. The CONTRACTOR shall attend and participate in all project coordination or progress meetings and report on the progress of all Work and compliance with schedules.
 - 5. If any part of the work depends upon the work of others for proper execution or results, the CONTRACTOR shall inspect and promptly report to the ENGINEER any apparent discrepancies or defects in such work of others that render it unsuitable for such proper execution and results.
 - 6. Failure of the CONTRACTOR to so inspect and report shall constitute an acceptance of the work of others as fit and proper except as to defects which may develop in the work of others after execution of the work by the CONTRACTOR.
- D. Interference with work on utilities:
 - 1. The CONTRACTOR shall cooperate fully with all utility forces of the OWNER or forces of other public or private agencies engaged in the relocation, altering, repair, or otherwise rearranging of any facilities which interfere with the progress of the work.
 - 2. The CONTRACTOR shall schedule the work so as to minimize interference with said relocation, altering, repair, or other rearranging of facilities.
- E. Responsibility for Damage:
 - 1. The CONTRACTOR shall not be responsible for damage done by CONTRACTORs not under their jurisdiction.
 - 2. The CONTRACTOR will not be liable for any such loss or damage, unless it is through the negligence of the CONTRACTOR.

1.5 WORK BY OTHERS

- A. OWNER will perform the following work:
 - 1. Operation of all existing system valves and equipment, unless specified otherwise.
 - 2. PLC and SCADA programming by CITY.
- B. Other contracts as follows:
 - 1. Construction of the future Operations Building will be under a separate contract following completion of this project.

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1.6 SITE CONDITIONS

A. Site Investigation and Representation

1. The CONTRACTOR acknowledges that it has satisfied itself as to the nature and location of the work, the general and local conditions, particularly those bearing upon availability of transportation, disposal, handling and storage of materials, availability of labor, water, electric power, roads, and uncertainties of weather, tide stages, or similar physical conditions at the site, the conformation and conditions of the ground, the character of equipment and facilities needed preliminary to and during the prosecution of the work and all other matters which can in any way affect the work or the cost thereof under this Contract.
2. The CONTRACTOR further acknowledges that it has satisfied itself as to the character, quality, and quantity of surface and subsurface materials to be encountered from inspecting the site and from evaluating information derived from exploratory work that may have been done by the OWNER or included in these Contract Documents. Any failure by the CONTRACTOR to become acquainted with all the available information will not relieve the CONTRACTOR from responsibility for properly estimating the difficulty or cost of successfully performing the work or for properly installing the Work.
3. Field Verification:
 - a. Before undertaking each part of the work, the CONTRACTOR shall carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements.
 - b. As the work proceeds, the CONTRACTOR shall field verify the depth and location of all buried utilities, and existing systems, and location of hazardous waste and contaminants.
 - c. The CONTRACTOR shall promptly report in writing to the ENGINEER any conflict, error, or discrepancy which the CONTRACTOR may discover and shall obtain a written interpretation or clarification from the ENGINEER before proceeding with any work affected thereby.

B. Existing Utilities and Improvements

1. Location of Underground Utilities:
 - a. Known existing underground conduits, pipelines and other utilities have been shown on the contract drawings in their approximate locations (within 3 feet of actual location). However, the accuracy or completeness of utilities indicated on the drawings is not guaranteed.
 - b. It shall be the responsibility of the CONTRACTOR to determine the exact location of all utilities and their service connections.
 - c. All potholing or other procedures for verifying utility location shall be performed by the CONTRACTOR as necessary to prepare for excavation at least 4 working days in advance of scheduled excavation.
 - d. The CONTRACTOR shall immediately notify the ENGINEER as to any utility located by him which has been incorrectly shown or omitted from the drawings.
 - e. If the CONTRACTOR cannot locate an underground utility whose presence is indicated on the Drawings, the ENGINEER shall be notified in writing.
 - f. The CONTRACTOR shall ascertain the exact locations of underground utilities whose presence is indicated on the Drawings, the locations of their service laterals work and of service laterals or appurtenances of any other underground utilities which can be inferred from the presence of visible facilities such as buildings, meters and junction boxes prior to doing work that may damage such utilities or interfere with their service.
 - g. Utilities Not Shown on Drawings:

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- 1) Attention is directed to the possible existence of underground utilities not indicated on the Drawings and to the possibility that underground utilities may be in a location different from that indicated on the Drawings.
 - 2) If the ENGINEER determines that the underground utility for which such notice has been given has not been depicted on the Drawings with reasonable accuracy (within 3 feet of actual location), the additional cost incurred in locating the utility will be paid for as extra work as provided in the Agreement.
 - 3) If the CONTRACTOR discovers underground an utility not indicated on the Drawings, the CONTRACTOR shall immediately give the ENGINEER and the Utility Company written notification of the existence of such utility.
 - 4) Such utilities shall be located and protected from damages as directed by the ENGINEER and the cost of such work will be paid for as extra work as provided in the Agreement.
2. Utility Coordination:
- a. The CONTRACTOR shall notify Underground Service Alert (USA) at least 4 days prior to excavation, telephone (800) 642-2444.
 - b. The CONTRACTOR shall also contact all utility owners not registered with USA but known to have utilities in the project area to field locate underground utilities at least 4 days prior to excavation.
 - c. The CONTRACTOR shall notify all owners of utilities when the Work is in progress and shall make arrangements as are necessary to coordinate outages or make any emergency repairs.
 - d. Existing utilities that are shown or that are made known and located to the CONTRACTOR prior to excavation, and that are to be retained; and all utilities that are constructed during excavation operations shall be properly supported and protected from damage during the progress of the work.
3. Utility Protection and Damage:
- a. Existing utilities that are shown or that are made known and located to the CONTRACTOR prior to excavation, and that are to be retained, and all utilities that are constructed during excavation operations shall be properly supported and protected from damage during the progress of the work.
 - b. Should any damage to a utility occur during the progress of the work, the CONTRACTOR shall notify the OWNER or the utility at once and render all assistance possible to repair the damage and restore the service.
 - c. No extra compensation will be made for the repair of any services or utility damaged by the CONTRACTOR nor for any damage incurred through neglect or failure to provide adequate protection to existing utilities.
 - d. The provisions of this Section shall not be abated even in the event such damage occurs after backfilling or is not discovered until after completion of the backfilling.
 - e. Damage Report:
 - 1) If the CONTRACTOR damages any underground utilities not shown on the Drawings or not depicted on the Drawings with reasonable accuracy (within 3 feet of actual location) or any lateral service the location of which could not be inferred by the CONTRACTOR, a written report thereof shall be made immediately to the ENGINEER by CONTRACTOR.
 - 2) The CONTRACTOR's report shall also advise the ENGINEER of any schedule delays. Compensation for such delays will be determined in accordance with the Agreement. The CONTRACTOR shall be entitled to no other compensation for any such damage.
4. All utilities encountered along the line of the work shall remain continuously in service during all work under the Contract, unless otherwise shown on the drawings,

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or unless other arrangements satisfactory to the ENGINEER are made with the owner of said utilities.

C. CONTRACTOR's Responsibility for Utility Facilities and Service

1. Where the CONTRACTOR's operations could cause damage or inconvenience to railway, telephone, television, power, oil, gas, water, sewer, or irrigation systems, the CONTRACTOR shall make all arrangements necessary for the protection of these utilities and services.
2. The CONTRACTOR shall be solely and directly responsible to the owner and operators of such properties for any damage, injury, expense, loss, inconvenience, delay, suits, actions, or claims of any character brought because of any injuries or damage which may result from the construction operations under this Contract.
3. Neither the OWNER nor its officers or agents shall be responsible to the CONTRACTOR for damages because of the CONTRACTOR's failure to protect utilities encountered in the work.
4. In no event shall interruption of any utility service be allowed outside working hours unless granted by the owner of the utility.
5. No sand, mud, rocks or other construction debris shall be disposed of in the sanitary sewers or storm sewers.
6. Any discharge of construction water to the sewer or storm drain systems requires a City of Roseville discharge permit a minimum of 7 calendar days prior to planned discharge, as approved by ENGINEER.
7. Where bypassing of sewage is required to perform sewer repairs or service relocations and where temporary pumps are required to bypass any sewage across traffic lanes, the discharge lines crossing the traffic lanes shall be buried a minimum of 4 inches below the pavement surface and backfilled with temporary asphalt concrete surfacing. The CONTRACTOR shall take all necessary steps to assure continuous flow of sewage. Bypassing of untreated wastewater to surface waters or courses will not be permitted.
8. The CONTRACTOR shall replace, at its own expense, any and all existing utilities or structures removed or damaged during construction, to their existing condition unless otherwise provided for in these Contract Documents.
9. The CONTRACTOR shall repair or replace, at its own expense, all pavement damaged during the construction, to its existing condition unless otherwise provided for in these Contract Documents.

D. Names of Known Utilities Serving the Area

1. The following is a list of the known public utilities serving the area:
 - a. City of Roseville:
 - 1) Water – (916) 774-5750.
 - 2) Recycled Water – (916) 774-5750.
 - 3) Sewer – (916) 774-5750
 - 4) Electric – (916) 797-6937
 - b. Pacific Gas and Electric (PG&E):
 - 1) Gas – (800) 743-5000

E. Railroads

1. The CONTRACTOR shall not perform work or occupy any part of railroad property without a permit authorizing the same.

F. Interfering Structures

1. The CONTRACTOR shall take necessary precautions to prevent damage to existing structures whether on the surface, aboveground, or underground. An attempt has

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been made to show major structures on the Drawings. While the information has been compiled from the best available sources, its completeness and accuracy cannot be guaranteed, and it is presented as a guide to avoid possible difficulties.

2. The CONTRACTOR shall protect all existing structures, trees, shrubs, and other items on the project site that are to be preserved, by substantial barricades or other devices commensurate with the hazard, from injury or destruction by vehicles, equipment, workmen, or other agents.
3. Where existing fences, gates, buildings, or any other structure must be removed to properly carry out the work, or are damaged during the work, they shall be restored at the CONTRACTOR's expense to their original condition or better.
4. Without additional compensation, the CONTRACTOR may remove and replace in a condition as good as or better than original, any small structures such as fences, and signposts that interfere with the CONTRACTOR's operations.

G. Field Relocation

1. During the progress of construction, it is expected that minor relocations of the work will be necessary.
2. Such relocations shall be made only by direction of the ENGINEER.
3. If existing structures are encountered that will prevent construction as shown, notify the ENGINEER before continuing with the work in order that the ENGINEER may make such field revisions as necessary to avoid conflict with the existing structures.
4. If the CONTRACTOR shall fail to notify the ENGINEER when an existing structure is encountered, and shall proceed with the work despite this interference, CONTRACTOR shall do so at their own risk.
5. Any CONTRACTOR request(s) for additional compensation or contract time resulting from necessary field relocations will be considered as set forth in the Agreement.
6. If the CONTRACTOR fails to notify the ENGINEER when a structure which interferes with construction is encountered, and proceeds with the work despite this obstruction, the CONTRACTOR shall do so at their own risk and at no additional cost to the OWNER.

1.7 REFERENCE POINTS AND SURVEYS

- A. Location and elevation of bench marks are shown on Drawings.
- B. Dimensions for lines and elevations for grades of structures, appurtenances, and utilities are indicated on Drawings, together with other pertinent information required for laying out Work. If conditions vary from those indicated, notify OWNER immediately, who will make or approve minor adjustments, as required.
- C. OWNER may perform checks to verify accuracy of CONTRACTOR's layout Work and that completed Work complies with Contract Documents.
- D. Any existing survey points or other control markers destroyed without proper authorization will be replaced by owner of the survey points or control markers at CONTRACTOR's expense.
- E. CONTRACTOR's Responsibilities:
 1. Provide all survey and layout required.
 2. Locate and protect reference points prior to starting site preparation.
 3. Notify OWNER at least 3 working days in advance when grade and line surveying will be performed by CONTRACTOR

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4. Check and establish exact location of existing facilities prior to construction of new facilities and any connections thereto.
5. In event of discrepancy in data provided by OWNER, request clarification before proceeding with Work.
6. Provide cut sheets for all staking.
7. Preserve and leave undisturbed control staking until ENGINEER has completed checks it deems necessary.
8. Re-establish reference points resulting from destruction by CONTRACTOR's operations.
9. Cooperate with ENGINEER so that checking and measuring may be accomplished with least interference to CONTRACTOR's operations.

1.8 SEQUENCE AND PROGRESS OF WORK

- A. The CONTRACTOR shall submit a Construction Schedule covering the entire Work in accordance with Section 01320, Progress Schedule.
- B. The CONTRACTOR shall incorporate the requirements of Section 01130, Special Project Constraints, into the Construction Schedule.
- C. Alternate Sequence:
 1. The CONTRACTOR's schedule may use a different sequence from that shown or specified, if techniques and methods known to the CONTRACTOR will result in cost and time savings to the OWNER, still achieve the required objective and maintain the same or greater level of treatment.
 2. The ENGINEER's determination on the acceptability of any alternative sequence from that shown or specified shall be final.

1.9 CONTRACTOR'S USE OF PREMISES

- A. The CONTRACTOR shall coordinate use of the premises, for the CONTRACTOR's storage and the operations of the CONTRACTOR's workmen, with OWNER and utility service companies.
- B. Restriction of Work Area:
 1. The full use of the premises for storage, the operations of workmen and for all other construction activities will not be available to the CONTRACTOR.
 2. The CONTRACTOR must operate entirely within the space allowed to the CONTRACTOR.
 3. The Drawings defines the area allocated to the CONTRACTOR.
- C. The CONTRACTOR shall be solely responsible for obtaining and paying all costs in connection with any additional work area, storage sites, access to the site or temporary right-of-way, which may be required for proper completion of the Work.
- D. Limitations on Use of Work Area:
 1. It shall be understood that responsibility for protection and safe-keeping of equipment and materials on or near the site will be entirely that of the CONTRACTOR and that no claim shall be made against the OWNER or their authorized representatives by reason of any act.
 2. It shall be further understood that should any occasion arise necessitating access to the sites occupied by these stored materials or equipment, the ENGINEER shall direct

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the CONTRACTOR owning or responsible for the stored materials and equipment to immediately move the same.

3. No materials or equipment may be placed upon the property of the OWNER, other than in the designated areas as shown on the Drawings, unless the ENGINEER has agreed to the location contemplated by the CONTRACTOR to be used for storage.
 4. All stored materials shall be labeled according to the appropriate contractor or Subcontractor with the manufacturer's label as well.
 5. Appropriate material safety data sheets (e.g., MSDS) shall be provided.
- E. The CONTRACTOR shall be required to share use of the premises with other Contractors whose services the OWNER has obtained or will obtain for construction of other facilities on the site.

1.10 USE OF OWNER'S FACILITIES

- A. The CONTRACTOR may use existing facilities or equipment in the Work for construction purposes, only if the OWNER's written permission is obtained.
- B. Restore existing facilities and equipment used for temporary purposes to original condition in a manner satisfactory to OWNER.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

++ END OF SECTION ++

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SECTION 01130

SPECIAL PROJECT CONSTRAINTS

PART 1 - GENERAL

1.1 LIMIT OF CONSTRUCTION ACTIVITIES ON WORK SITE

A. Traffic Control:

1. During non-work hours, the CONTRACTOR shall keep all lanes of traffic open and clear. All trenches shall be backfilled or covered with suitable steel plates and open to traffic.
2. No equipment, construction material or excavated material that will interfere with traffic shall be stored on streets or roadways at any time.

1.2 SEQUENCE OF WORK

A. General:

1. The CONTRACTOR shall schedule and sequence their work to complete the Work by the specified completion date.
2. The OWNER's water distribution, recycled water, sewer collection and storm drain systems must remain operational at all times, with scheduled shutdowns as necessary to complete the Work and with prior approval of Owner, as described herein.
3. Re-vegetation of graded areas shall take place as quickly as possible as weather permits.

1.3 PROJECT CONSTRAINTS

A. Maintenance of OWNER's Operations:

1. Constraints listed herein involve limits on activities during construction. These limits relate to the critical nature of the existing water system.
2. Continuous operation of OWNER's facilities is of critical importance. Schedule and conduct activities to enable existing facilities to operate continuously, unless otherwise specified.
3. Work Plan:
 - a. The CONTRACTOR shall submit a detailed Work Plan and time schedule for all construction activities that will make it necessary to remove a tank, pipeline, electrical circuit, equipment, structure, road or other facilities from service, including the critical outages identified herein.
 - b. The Work Plan shall, at a minimum, identifying:
 - 1) the date and time when each activity will occur;
 - 2) what equipment will be present including standby equipment;
 - 3) what assistance will be required by OWNER's operating personnel;
 - 4) an emergency backup plan identifying what action will be taken if Work cannot be completed within the allotted time; and
 - 5) what individual will be in charge of the activity.
 - c. Submit Work Plan 10 working days prior to the scheduled activity.
4. Perform Work continuously during critical connections and changeovers, and as required to prevent interruption of OWNER's operations.
5. Shutdowns:

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- a. Coordinate proposed Work with OWNER and facility operations personnel before affecting unit shutdowns. The CONTRACTOR shall provide written confirmation of the shutdown date and time five (5) working days prior to the actual shutdown.
 - b. Under no circumstances shall the CONTRACTOR cease Work at the end of a normal working day or at the end of a working week if such actions may inadvertently cause a cessation of any facility operating process, in which case, remain onsite until necessary repairs are complete.
 - 6. Do not close lines, open valves or gates, shut down equipment, or take other action which would affect the operation of existing systems, except as specifically required by the Contract Documents and after approval of OWNER.
 - 7. Do not proceed with Work affecting a facility's operation without obtaining OWNER's advance approval of the need for and duration of such Work.
- B. Relocation of Existing Facilities:
- 1. During construction, it is expected that minor relocations of Work will be necessary.
 - 2. Provide complete relocation of existing structures and Underground Facilities, including piping, utilities, equipment, structures, electrical conduit wiring, electrical duct bank, and other necessary items.
 - 3. Use only new materials for relocated facility. Match materials of existing facility, unless otherwise shown or specified.
 - 4. Perform relocations to minimize downtime of existing facilities.
 - 5. Install new portions of existing facilities in their relocated position prior to removal of existing facilities, unless otherwise accepted by OWNER.
- C. Hours of Work and Overtime:
- 1. Normal working hours at the Construction Site for the project shall be 7A.M. to 5P.M., weekdays, no work during the weekend nor during City observed holidays.
 - a. Conduct Work outside normal working hours only after obtaining prior written consent and approval from the OWNER.
 - 1) Contractor shall request work-hour variations in writing, a minimum of ten (10) days prior to the start of the proposed work period.
 - 2) Contractor shall not rely on approval of work outside of normal working hours without prior consent of the OWNER. Approval shall be at the sole discretion of the OWNER.
 - b. Contractor will develop Project Schedule assuming work during normal working hours only.
 - 2. All overtime Work by the CONTRACTOR necessary to conform to the requirements of this Section and related Sections shall be performed by the CONTRACTOR, at no cost to the OWNER and shall be performed in accordance with the Agreement. The CONTRACTOR shall make no claims for extra compensation as a result thereof.

1.4 CONSTRUCTION SEQUENCING CONSTRAINTS

- A. No specific construction sequencing constraints other than those listed in this or other Specification section have been determined at the time of Final Design.
- B. Construction sequencing constraints will be developed by Design-Assist Team as necessary.

1.5 PROJECT STAFFING

- A. Project superintendent (Job Superintendent, serving as resident Superintendent and Contractor's authorized representative), employed by the Contractor, shall be on-site five

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days per week for 8 hours a day and in responsible charge of all work, quality control, subcontractors, permit compliance, and the site.

- B. Qualified Storm Water Pollution Prevention Plan (SWPPP) Practitioner (QSP) , employed by Contractor, must be on call to come to the site when a Rain Event Action Plan (REAP) needs to be prepared.

1.6 STORMWATER MANAGEMENT

- A. CONTRACTOR responsible for stormwater management for the duration of the project.

PART 2 - PRODUCTS (NOT USED)

2.1 PRODUCTS

- A. All material that contacts potable water shall be "lead free" to the extent defined in the California Assembly Bill 1953 Chapter 853 and NSF 61 approved.

PART 3 - EXECUTION (NOT USED)

+ + END OF SECTION + +

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SECTION 01140

WATER POLLUTION CONTROL

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

1. Provide all labor, materials and resources to fully comply with applicable local, State and Federal regulations and requirements for water pollution prevention and control.
2. The preliminary SWPPP has been prepared and posted to the City of Roseville's Public Purchase website. It is made available for the convenience of the CONTRACTOR. The CONTRACTOR shall develop, update, revise and finalize as needed to comply with all requirements.
3. CONTRACTOR to comply with the City's municipal separate storm sewer system (MS4) Stormwater Management Program.

1.2 SUBMITTALS

A. Stormwater Pollution Prevention Plan (SWPPP) Information:

1. Within 10 business days of the contract being signed, the CONTRACTOR shall provide the following information:
 - a. Provide project SWPPP to comply with Construction General Permit Requirements and all other requirements of the Contract Documents;
 - b. Provide the Prime CONTRACTOR's company name, address, contact person (with office phone and emergency/cell phone) for Sections 100.1 and 500.1;
 - c. Provide the Qualified SWPPP Practitioner's (QSP) name, company name, address, office phone and emergency/cell phone for Section 500.1. Provide a copy of their current QSP certification from California Stormwater Quality Association (CASQA) including the license expiration date. If a SMARTs certified QSD is being used then provide documentation from SMARTs;
 - d. Provide a Subcontractor List (with names, addresses, phone numbers, areas of responsibility, etc.);
 - e. Provide a Project Schedule.
2. Provide Storm Water Quality Construction Site Inspection Checklist to be used by CONTRACTOR during construction.

1.3 REGULATORY REQUIREMENTS

A. Laws and Regulations:

1. The CONTRACTOR is responsible for complying with the Clean Water Act Section 401, Stormwater Pollution Prevention Plan (SWPPP) for all anticipated construction activities.
2. The OWNER shall submit a Notice of Intent (NOI) to the State Water Resources Control Board to obtain coverage under the National Pollution Discharge Elimination System (NPDES) and pay all filing fees associated with the NOI.
3. The Contractor shall perform construction operations to comply, and ensure subcontractors comply, with applicable Federal, State, and local laws, orders, regulations and water quality standards concerning control and abatement of water pollution, and terms and conditions of applicable permits issued by permit issuing

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authority. If conflict occurs between Federal, State, and local laws, regulations, and requirements, the most stringent shall apply.

4. The CONTRACTOR shall know and fully comply with applicable provisions of the Permits and all modifications thereto, and Federal, State, and local regulations and requirements that govern the CONTRACTOR's operations and stormwater and non-stormwater discharges from both the project site and areas of disturbance outside the project limits during construction.

B. Permit

1. As part of the water pollution control work, a Storm Water Pollution Prevention Plan (SWPPP) is required for this contract. The SWPPP and amendments shall be considered to fulfill the provisions in this section, "Water Pollution Control," of the Standard Specifications for development and submittal of a Water Pollution Control Program.
2. Approval shall not constitute a finding that the SWPPP complies with applicable requirements of the Permit, the Manuals and applicable Federal, State and local laws, regulations, permits, and requirements, nor does approval supersede the requirements and provisions of these special provisions, the Permit, or any other federal, state, or local regulations or permit in the event of a conflict.
3. The SWPPP shall identify the Qualified SWPPP Practitioner (QSP) as required by the Permit.
4. A Preliminary SWPPP will be provided to the CONTRACTOR. The CONTRACTOR will be required to revise and finalize the SWPPP as needed to comply with Construction General Permit Requirements and all other pertinent laws, rules, and regulations. Only a Qualified SWPPP Developer (QSD) is allowed to revise or amend the SWPPP. All revisions and Amendments must be accepted by Legally Responsible Person (LRP). The CONTRACTOR shall provide all Permit Registration Documents (PRDs). PRDs consist of:
 - a. Notice of Intent (NOI)
 - b. Risk assessment
 - c. Site Map
 - d. Storm Water Pollution Prevention Plan (SWPPP)
 - e. Annual Fee
 - f. Signed Certification Statement
 - g. Notice of termination (NOT)
 - h. Changes of Termination
 - i. Annual Reporting
 - j. Other Compliance Documents
5. The OWNER will submit the PRDs electronically to the State Water Resources Control Board (State) website, entitled Stormwater Multi Application Reporting and Tracking System (SMARTS). For the purposes of the Permit, the City of Roseville is the owner of the Permit and is the Legally Responsible Person (LRP). The LRP will retain authority for assigning the Approved Signatories and Data Submitters in SMARTS. The CONTRACTOR's QSP and/or QSD will be designated as Data Submitters in SMARTS, including the responsibilities thereof, as required by the Permit. LRP will submit the appropriate fee to the State and obtain a certified NOI and Waste Discharge Identification Number (WDID) for the project
6. No ground disturbing work shall occur until the PRD and SWPPP have been uploaded to the State website. The ENGINEER will notify the CONTRACTOR in writing upon completion of the document upload which will allow ground disturbing work to begin. The SWPPP shall apply to the areas within or immediately outside of the right-of-way that are directly related to all construction activities including, but not limited to, material borrow or disposal areas, staging areas, storage yards, and access roads,

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- including those on-site areas developed by the CONTRACTOR with third parties for use during the project.
7. The CONTRACTOR shall develop a Water Pollution Control Schedule that describes the timing of grading or other work activities that could affect water pollution. The Water Pollution Control Schedule shall be updated by the CONTRACTOR to reflect changes in the CONTRACTOR's operations that would affect the necessary implementation of water pollution control practices.
 8. Water pollution control practices include the "Minimum Requirements" and other CONTRACTOR-selected water pollution control practices from the "SWPPP" and the "Project-Specific Minimum Requirements" identified in the Water Pollution Control Cost Break-Down of this section. Listing of these minimum requirements shall not relieve the Contractor of meeting all permit requirements.
 9. The requirements described herein are considered minimum requirements. Additional BMPs may be required to meet the requirements set forth in the SWPPP and the Permit. All BMPs shall be designed, installed, maintained, and otherwise managed pursuant to the provisions set forth in the most stringent and most recent of the following: the City of Roseville Stormwater Quality BMP Guidance Manual for Construction, West Placer Storm Water Quality Design Manual, California Department of Transportation (Caltrans) Stormwater Quality Handbook - Construction Site BMP Manual or the California Stormwater Quality Association (CASQA) - California Stormwater BMP Handbook for Construction. The CONTRACTOR shall prepare an amendment to the SWPPP as required by the Permit, such as when there is a change in construction activities or operations which may affect the discharge of pollutants to surface waters, ground waters, storm drain systems; when the CONTRACTOR's activities or operations violate a condition of the Permit; when there is a change in the schedule that affects the discharge of pollutants; when there is a change in the schedule that affects the Risk Level required by the Permit; or when directed by the ENGINEER. Amendments shall identify additional water pollution control practices or revised operations, including those areas or operations not identified in the initially approved SWPPP. Amendments to the SWPPP shall be prepared and submitted for review and approval within the time required by the Permit and approved by the ENGINEER, but in no case longer than the time specified for the initial submittal and review of the SWPPP. Approved amendments shall be submitted electronically to the ENGINEER within 24 hours of approval. At a minimum, the SWPPP shall be amended annually as required by the Permit, and an electronic copy submitted to the ENGINEER.
 10. The CONTRACTOR shall keep one copy of the approved SWPPP and approved amendments at the project site. The SWPPP shall be made available upon request by a representative of the Regional Water Quality Control Board, State Water Resources Control Board, United States Environmental Protection Agency, or the local storm water management agency. Requests by the public shall be directed to the ENGINEER.
 11. The CONTRACTOR shall notify the ENGINEER immediately upon request from the regulatory agencies to enter, inspect, sample, monitor, or otherwise access the project site or the CONTRACTOR's records pertaining to water pollution control work.
 12. Cost Break-down
 - a. The CONTRACTOR shall include a Water Pollution Control Cost Break-Down which itemizes the water pollution control work portion of the GMP. The CONTRACTOR shall use the Water Pollution Control Cost Break-Down provided in this section (See attached supplement) as the basis for the cost break-down submitted with the SWPPP information. The CONTRACTOR shall use the Water Pollution Control Cost Break-Down to identify items, quantities and non-adjustable values for water

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pollution control work, excluding water pollution control practices for which are separated in the Schedule of Values. The CONTRACTOR shall be responsible for the accuracy of the quantities and non-adjustable values used in the cost break-down submitted with the SWPPP. Partial payment for the item of water pollution control will not be made until the Water Pollution Control Cost Break-Down is approved by the ENGINEER.

- b. Line items indicated in the Water Pollution Control Cost Break-Down in this section with a specified Estimated Quantity shall be considered "Project-Specific Minimum Requirements." The CONTRACTOR shall incorporate Project-Specific Minimum Requirements with CONTRACTOR-designated quantities and values into the Water Pollution Control Cost Break-Down submitted with the SWPPP.
- c. Line items indicated in the Water Pollution Control Cost Break-Down in this section without a specified Estimated Quantity shall be considered by the CONTRACTOR for selection to meet the applicable requirements for water pollution control work required in the SWPPP. In the Water Pollution Control Cost Break-Down submitted with the SWPPP, the CONTRACTOR shall list only those water pollution control practices selected for the project, including quantities and non-adjustable values required to complete the work for those items.
- d. The sum of the amounts for the items of work listed in the Water Pollution Control Cost Break-Down shall be equal to the value for water pollution control include in the GMP. Overhead and profit shall be included in the individual items listed in the cost break-down.
- e. No adjustment in compensation will be made to the GMP for water pollution control due to differences between the quantities shown in the approved cost break-down and the quantities required to complete the work as shown on the approved SWPPP. No adjustment in compensation will be made for ordered changes to correct SWPPP work resulting from the CONTRACTOR's own operations or from the CONTRACTOR's negligence.
- f. The approved cost break-down will be used to determine partial payments during the progress of the work and as the basis for calculating the adjustment in compensation for the item of water pollution control due to increases or decreases of quantities ordered by the ENGINEER. When an ordered change increases or decreases the quantities of an approved cost break-down item, the adjustment in compensation will be determined in the same manner specified for increases and decreases in the quantity of a contract item of work in conformance with the Agreement. If an ordered change requires a new item which is not on the approved cost break-down, the adjustment in compensation will be determined in the same manner specified for Changes In the Work in the Agreement.

PART 2 - PRODUCTS

- A. Provide all materials in accordance with provisions set forth in the most stringent and most recent of the following: City of Roseville Stormwater Quality BMP Guidance Manual for Construction, West Placer Storm Water Quality Design Manual, California Department of Transportation (Caltrans) Stormwater Quality Handbook, Construction Site BMP Manual or of the California Stormwater Quality Association (CASQA), California Stormwater BMP Handbook for Construction.
- B. Only biodegradable wattles containing no plastic can remain on a site when applying for a Notice of Termination (NOT). Wattles containing plastic netting (including plastic specified as biodegradable) are not permitted on this project.

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PART 3 - EXECUTION

3.1 THIRD PARTY SWPPP OVERSIGHT AND PRACTITIONER SUBCONSULTANT

- A. CONTRACTOR shall retain a third-party firm to provide SWPPP oversight and QSP services including:
 - 1. Print out daily weather report
 - 2. Read and record rain gauge daily
 - 3. Prepare REAPs
 - 4. Perform all inspections (pre-and post-storm, quarterly, non-stormwater inspections)
 - 5. Write inspection reports to document inspections
 - 6. Prepare annual report for OWNER to certify
 - 7. Perform and document all sampling (stormwater, non-stormwater, and discharge)
 - a. Sampling must occur every business day that runoff or discharges are leaving the site
 - 8. Provide staff trainings as needed and keep records of trainings
 - 9. Organize all paperwork for project closeout
 - 10. Maintain the pH meter and turbidimeter, perform calibration of equipment and provide calibration records.
- B. All weather reports, rain gauge log, inspection reports, sampling records, REAPs, and training records shall be maintained daily in the SWPPP binder at the project site.
- C. SWPPP subconsultant shall be a QSP and responsible for development and maintenance of SWPPP throughout construction and post-construction until acceptance of NOT by Board.
- D. The SWPPP subconsultant shall be registered on SMARTS and linked to the project as Data Submitters.
- E. CONTRACTOR shall be responsible for all means and methods related to implementation of SWPPP throughout construction and post-construction until acceptance of NOT by Board.
- F. SWPPP subconsultant shall attend all weekly construction progress meetings in person.
- G. SWPPP subconsultant shall prepare and submit on a monthly basis a certification that the site is in compliance with all SWPPP requirements and all documentation related to the site has been prepared and submitted in accordance with the General Permit Requirements. Certification shall be made by signing the certification form and submitting it to the CONTRACTOR, with a copy sent to the OWNER.
- H. SWPPP subconsultant shall be responsible for the following:
 - 1. Prepare ad hoc reports and exceedance reports as needed;
 - 2. Submit such reports to SMARTS, as needed; and,
 - 3. Prepare and upload on SMARTS change of information applications, annual reports and Notice of Termination, as needed.
- I. Signed certification shall be submitted with all Monthly Pay Requests by CONTRACTOR. Failure to submit Certification signed by SWPPP subconsultant shall result in rejection of monthly pay request.

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3.2 IMPLEMENTATION

- A. If there is a discrepancy between the project Permit and these special provisions, the Permit language shall supersede. If there is a discrepancy between the SWPPP and these special provisions, the special provisions shall supersede. Unless otherwise specified, upon approval of the SWPPP, the CONTRACTOR shall be responsible throughout the duration of the project for installing, constructing, inspecting, maintaining, replacing, removing, and disposing of temporary water pollution control practices, and installing, constructing, inspecting, maintaining, and replacing permanent water pollution control practices specified in the SWPPP and in the amendments. The duration of work includes that time period between initial mobilization to the site and acceptance of the work. Unless otherwise directed by the ENGINEER, the CONTRACTOR's responsibility for SWPPP implementation shall continue throughout temporary suspensions of work. Requirements for installation, construction, inspection, maintenance, replacement, removal, and disposal of water pollution control practices shall conform to the requirements in these special provisions and to project permits.
- B. Installing, inspecting and maintaining water-pollution control practices on areas outside the designated work area not specifically arranged and provided for by the City for the execution of this contract, will not be paid for.
- C. If the CONTRACTOR or the ENGINEER identifies a deficiency in the implementation of the approved SWPPP or amendments, the deficiency shall be corrected immediately unless requested by the CONTRACTOR and approved by the ENGINEER in writing but shall be corrected prior to the onset of precipitation. If the CONTRACTOR fails to correct the identified deficiency by the date agreed or prior to the onset of precipitation, the project shall be in nonconformance with this section, "Water Pollution Control."
- D. If the CONTRACTOR fails to conform to the provisions of this section, the ENGINEER may order the suspension of construction operations and/or may hire a third party to correct the deficiency. Additional project costs will be deducted from the CONTRACTOR's retention until the CONTRACTOR complies with the requirements.

3.3 YEAR-ROUND IMPLEMENTATION REQUIREMENTS

- A. The CONTRACTOR shall have a year-round program for implementing, inspecting and maintaining water pollution control practices for wind erosion control, tracking control, non-storm water management, and waste management and materials pollution control.
- B. The National Weather Service weather forecast shall be monitored and used by the CONTRACTOR on a daily basis. If 50 percent or greater precipitation is predicted, the necessary water pollution control practices shall be deployed prior to the onset of the precipitation. If there is less than a 50 percent chance of precipitation, the CONTRACTOR shall still be responsible for ensuring the project site does not result in a discharge of pollutants off-site. Regardless of the chances of precipitation, the CONTRACTOR shall allow adequate time to properly install all required BMPs prior to precipitation.
- C. Disturbed soil areas shall be considered active whenever the soil disturbing activities have occurred, continue to occur or will occur during the ensuing 14 days. Non-active areas shall be stabilized with water pollution control practice within 14 days of cessation of soil disturbing activities or prior to the onset of precipitation, whichever occurs first.

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3.4 MAINTENANCE

- A. To ensure the proper implementation and functioning of water pollution control practices, the CONTRACTOR shall regularly inspect and maintain the construction site for the water pollution control practices identified in the SWPPP. The construction site shall be inspected by the CONTRACTOR as follows:
 - 1. Prior to a forecast storm.
 - 2. After a precipitation event which causes site runoff.
 - 3. At 24 hour intervals during extended precipitation events.
 - 4. Routinely, a minimum of once every week
- B. The CONTRACTOR shall use a Storm Water Quality Construction Site Inspection Checklist approved by the ENGINEER. One copy of each site inspection record shall be submitted to the ENGINEER within 24 hours of completing the inspection.

3.5 CONTRACTOR VIOLATIONS:

- A. If noncompliance occurs, immediately (verbally) report noncompliance to the ENGINEER. Submit specific information within 2 days.
- B. Consistent violations of applicable Federal, State, or local laws, orders, regulations, or Water Quality Standards may result in the ENGINEER stopping all site activity until compliance is ensured.
- C. The CONTRACTOR shall not be entitled to extension of time, claim for damage, or additional compensation by reason of such a work stoppage.
- D. Corrective measures required bringing activities into compliance, or fines imposed by a regulating authority, shall be at the CONTRACTOR's expense.

3.6 REPORTING REQUIREMENTS

- A. Report of Discharges, Notices or Orders
 - 1. If the CONTRACTOR identifies discharges from the project site, regardless of source, in a manner causing, or potentially causing, a condition of pollution in surface waters or drainage systems, the CONTRACTOR shall immediately inform the ENGINEER. In addition, the CONTRACTOR shall submit a written Notice of Discharge report to the ENGINEER within 24 hours of the discharge event. The report shall include the following information:
 - a. The date, time, location, nature of the operation, and type of discharge, including the cause or nature of the notice or order.
 - b. The water pollution control practices deployed before the discharge event.
 - c. The date of deployment and type of water pollution control practices deployed after the discharge event, including additional measures installed or planned to remediate and clean-up the discharge, and/or reduce or prevent reoccurrence.
 - d. An implementation and maintenance schedule for affected water pollution control practices.
- B. Report of First-Time Non-Storm Water Discharge
 - 1. The CONTRACTOR shall notify the ENGINEER at least 3 days in advance of first-time non-storm water discharge events, excluding exempted discharges. The CONTRACTOR shall notify the ENGINEER of the operations causing non-storm water discharges and shall obtain field approval for first-time non-storm water discharges.

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Non-storm water discharges shall be monitored at first-time occurrences and routinely thereafter.

2. If the CONTRACTOR receives a written Notice, Order, or other non-compliance action letter from a regulatory agency as a result of storm water or other discharges from the project site, the CONTRACTOR shall immediately notify the ENGINEER. The CONTRACTOR shall be solely responsible for responding to and complying with the Notice, Order, or action letter, unless otherwise directed by the ENGINEER.
3. Unless otherwise directed in this Section, and in addition to the requirements of the Permit, the CONTRACTOR shall submit for approval, all required inspection reports, monitoring reports, action plans, notices, amendments, and other documentation required to satisfy requirements of the Permit, to the ENGINEER within 3 days of their completion. The ENGINEER will have 3 days to approve the documents as complete and sufficient to satisfy the Permit or other agency requirements. If the documents are not complete and sufficient, the ENGINEER will return them to the CONTRACTOR for resubmittal. The CONTRACTOR shall be responsible for submitting complete, accurate, and detailed reporting documents sufficient to satisfy all conditions of the Permit and regulatory agency requirements.

C. Annual Report

1. The CONTRACTOR shall maintain all records for use in the annual report.
2. The CONTRACTOR should prepare the annual report using the SMARTS system by no later July 30. The OWNER will certify and submit the report.

3.7 CONSTRUCTION SITE MANAGEMENT

A. CONTRACTOR Construction Operations:

1. Perform construction activities by methods that will prevent entrance, or accidental spillage, of solid matter, contaminants, debris, or other pollutants or wastes into streams, flowing or dry watercourses, wetlands, or underground water sources.
2. Pollutants and wastes include, but are not restricted to: refuse, garbage, cement, sanitary waste, industrial waste, hazardous materials, radioactive substances, oil and other petroleum products, aggregate processing tailings, mineral salts, and thermal pollution.
3. Discharge of cement fines, drilling fluids, contaminated water, and other construction byproducts will not be allowed on site.
4. Discharge from dewatering and unwatering operations shall be contained in an onsite tank or containment/infiltration basin. Discharge to infiltration basins shall be limited to water and groundwater only.

B. Stockpiled or Deposited Materials:

1. Do not stockpile or deposit excavated materials or other construction materials, near or on, stream banks or other watercourse perimeters where they can be washed away by high water or storm runoff, or can in any way encroach upon the watercourse.

C. Oil Storage Tanks Management:

1. Place oil or other petroleum product (hereinafter referred to collectively as oil) storage tanks at least 150 feet from the edge of any water body.
2. Do not use underground storage tanks.
3. Construct storage area dikes at least 12 inches high or graded and sloped to permit safe containment of leaks and spills equal to the capacity located in each area plus a sufficient amount of freeboard to contain the 25-year rainstorm.
4. Line diked areas with an impermeable barrier at least 50 mils thick.

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D. Refueling Operations:

1. Provide areas used for refueling operations with an impermeable liner at least 10 mils thick buried under 2 to 4 inches of soil.

3.8 PAYMENT

A. General

1. No additional payment will be made to correct deficiencies in the SWPPP or Amendments.
2. The contract GMP shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in installing, constructing, removing, and disposing of water pollution control practices, including non-storm water management, and waste management and materials for water pollution control practices as provided for in the approved SWPPP, except those for which there is a contract item of work as specified in the Standard Specifications and these special provisions, and as directed by the ENGINEER.
3. Full compensation for Permit reporting and compliance, including all monitoring, preparation of inspection reports, and stormwater sampling and analysis, and maintenance costs of Water Pollution Control Practices, Amendments, and Implementation of Amendments as specified in this section, "Water Pollution Control," shall be considered as included in the contract lump sum price paid for water pollution control and no additional compensation will be allowed therefore.
4. No additional payment will be made for Water Pollution Control Practices necessary to correct deficiencies in the approved SWPPP or Amendments.
5. Water pollution control practices, for which there is a contract item of work, will be measured and paid for as that contract item of work.

B. Retention of Funds:

1. Notwithstanding any other remedies authorized by law, the CITY may retain money due the CONTRACTOR under the contract, in an amount determined by the CITY, up to and including the entire amount of Penalties proposed, assessed, or levied as a result of the CONTRACTOR's violation of the Permit, or Federal or State law, regulations or requirements. Funds may be retained by the CITY until final disposition has been made as to the Penalties. The CONTRACTOR shall remain liable for the full amount of Penalties until such time as they are finally resolved with the entity seeking the Penalties.
2. Retention of funds for failure to conform to the provisions in this section, "Water Pollution Control," shall be in addition to the other retention amounts required by the contract. The amounts retained for the CONTRACTOR's failure to conform to provisions in this section will be released for payment on the next monthly estimate for partial payment following the date when an approved SWPPP has been implemented and maintained, and when water pollution has been adequately controlled, as determined by the ENGINEER.
3. When a regulatory agency identifies a failure to comply with the Permit and modifications thereto, or other Federal, State or local requirements, the CITY will retain money due the CONTRACTOR, in the amount of 10 percent of the work done to date or any fine whichever is greater, this amount is in addition to the retention specified in Section 9-3.2, Partial and Final Payment, subject to the following. The CITY will give the CONTRACTOR written notice of the CITY's intent to retain funds from partial payments which may become due to the CONTRACTOR prior to recording of the Notice of Completion.

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4. During the first estimate period that the CONTRACTOR fails to conform to the provisions in this section, "Water Pollution Control," the CITY may retain an amount equal to 25 percent of the estimated value of the contract work performed.
5. The CONTRACTOR shall notify the ENGINEER immediately upon request from the regulatory agencies to enter, inspect, sample, monitor, or otherwise access the project site or the CONTRACTOR's records pertaining to water pollution control work. The CONTRACTOR shall provide copies of correspondence, notices of violation, enforcement actions or proposed fines by regulatory agencies to the requesting regulatory agency.

3.9 REMOVAL

- A. Remove temporary works in accordance with Section 01810, Cleaning.

3.10 SUPPLEMENTS

- A. Water Pollution Control Cost Break-Down
- B. Certification Form

+ + END OF SECTION + +

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Section 01140 Water Pollution Control Cost Break-down				
Item Description	Unit	Estimated Quantity	Value	Amount
Erosion Control (Temporary)	ACRE			
Erosion Control (Permanent)	ACRE			
Straw Mulch	ACRE			
Geotextiles, Plastic Covers & Erosion Control Blankets/Mats	SQYD			
Wood Mulching	SQYD			
Earth Dikes/Drainage Swales & Lined Ditches	LF			
Outlet Protection/Velocity Dissipation Devices	EA			
Slope Drains	EA			
Silt Fence	LF			
Desilting Basin	EA			
Sediment Trap	EA			
Gravel Check Dam	TON			
Fiber Rolls	LF			
Gravel Bag Berm	LF			
Street Sweeping and Vacuuming	LS			
Sandbag Barrier	LF			
Straw Bale Barrier	LF			
Storm Drain Inlet Protection	EA			
Wind Erosion Control	LS			
Stabilized Construction Entrance/Exit	EA			
Stabilized Construction Roadway	EA			
Entrance/Outlet Tire Wash	EA			
Water Conservation Practices	LS			
Dewatering Operations	EA			
Paving and Grinding Operations	LS			
Temporary Stream Crossing	EA			
Clear Water Diversion	EA			
Illicit Connection/Illegal Discharge Detection and Reporting	LS			
Potable Water/Irrigation	LS			
Vehicle and Equipment Cleaning	LS			
Vehicle and Equipment Fueling	LS			
Vehicle and Equipment Maintenance	LS			
Material Delivery and Storage	LS			
Material Use	LS			
Stockpile Management	LS			
Spill Prevention and Control	LS			
Solid Waste Management	LS			
Hazardous Waste Management	LS			
Contaminated Soil Management	LS			

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Item Description	Unit	Estimated Quantity	Value	Amount
Concrete Waste Management	LS			
Sanitary/Septic Waste Management	LS			
Liquid Waste Management	LS			
TOTAL:				

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SWPPP COMPLIANCE FORM

As the QSP for the Project, I hereby certify the project site is in full compliance with applicable local, State and Federal regulations and requirements for water pollution prevention and control.

Printed Name

Signature

Date

QSP Number

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City of Roseville
West Side Tank and Pump Station Project (Phase 2)
17-083

November 2019
Final Design Submittal

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SECTION 01145

ENVIRONMENTAL PROTECTION

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Requirements for Environmental Protection. During the progress of the work, keep Contractor occupied work areas in a neat and clean condition and protect the environment both onsite and offsite, throughout and upon completion of the construction project.

1.2 SUBMITTALS

- A. Develop a detailed Environmental Protection Plan and submit to the Engineer for review and approval prior to the beginning of construction. Distribute the favorably reviewed plan to all employees and to all subcontractors and their employees. The Environmental Protection Plan shall include, but not be limited to, the following items:
 - 1. Copies of required permits.
 - 2. Proposed disposal sites.
 - 3. Copies of any agreements with public or private landowners regarding equipment, materials storage, borrow sites, fill sites, or disposal sites. Any such agreement made by the Contractor shall be invalid if its execution causes violation of local or regional grading or land use regulations.

1.3 MITIGATION OF CONSTRUCTION IMPACTS

- A. All operations shall comply with federal, state and local regulations pertaining to water, air, solid waste and noise pollution.
- B. Definitions of Contaminants:
 - 1. Sediment: Soil and other debris that have been eroded and transported by runoff water.
 - 2. Solid Waste: Rubbish, debris, garbage and other discarded solid materials resulting from construction activities, including a variety of combustible and non-combustible wastes, such as ashes, waste materials that result from construction or maintenance and repair work, leaves and tree trimmings.
 - 3. Chemical Waste: Includes petroleum products, bituminous materials, salts, acids, alkalis, herbicides, pesticides, disinfectants, organic chemicals and inorganic wastes. Some of the above may be classified as "hazardous."
 - 4. Sanitary Wastes:
 - a. Sewage: That which is considered as domestic sanitary sewage.
 - b. Garbage: Refuse and scraps resulting from preparation, cooking, dispensing and consumption of food.
 - 5. Hazardous Materials: As defined by applicable laws and regulations. Undisclosed hazardous material contamination, if encountered will constitute a changed site condition. In the event that occurs, Contractor shall coordinate with Owner consistent with final EIR Mitigation Measure 4.9-1 as described in Section 1.3.D of this Specification.
- C. Protection of Natural Resources:

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1. General: It is intended that the natural resources within the project boundaries and outside the limits of grading performed under this Contract be preserved in their existing condition or be restored to an equivalent or improved condition upon completion of the work. Confine construction activities to areas defined by the public roads, easements, and work area limits shown on the Drawings. Return construction areas to their preconstruction elevations except where surface elevations are otherwise noted to be changed. Maintain natural drainage patterns except where surface drainage is otherwise noted to be changed. Conduct construction activities to avoid ponding stagnant water conducive to mosquito breeding.
2. Land Resources:
 - a. Do not remove, cut, deface, injure or destroy trees or shrubs outside the work area limits. Do not remove, deface, injure or destroy trees within the work area without permission from the Engineer.
 - b. Temporary Construction:
 - 1) Obliterate all signs of temporary construction facilities such as haul roads, work areas, structures, foundations of temporary structures, stockpiles of excess or waste materials, or any other vestiges of construction as directed by the Engineer.
 - 2) Level all temporary roads, parking areas and any other areas that have become compacted or shaped.
 - 3) Any unpaved areas where vehicles are operated shall receive a suitable surface treatment or shall be periodically wetted down to prevent construction operations from producing dust damage and nuisance to persons and property, at no additional cost to the Owner.
 - 4) Keep haul roads clear of any object which creates an unsafe condition.
 - 5) Promptly remove any contaminants or construction material dropped from construction vehicles.
 - 6) Do not drop mud and debris from construction equipment on public streets.
 - 7) Sweep clean turning areas and pavement entrances as necessary.
 - 8) Ensure no tracking occurs on City streets.
3. Water Resources:
 - a. Investigate and comply with all applicable federal, state and local regulations concerning the discharge (directly or indirectly) of pollutants to the City storm drain system and waters of the United States. Perform all work under this Contract in such a manner that any adverse environmental impacts are reduced to a level that is acceptable to the Engineer and regulatory agencies.
 - b. Oily Substances:
 - 1) Special measures shall be taken to prevent oily or other hazardous substances from entering the ground, drainage areas or local bodies of water in such quantities as to affect normal use, aesthetics or produce a measurable impact upon the area.
 - 2) Any soil or water which is contaminated with oily substances due to the Contractor's operations shall be disposed of in accordance with applicable regulations consistent with final EIR Mitigation Measure 4.9-1 as described in Section 1.3.D of this Specification.
 - c. Chlorinated Water:
 - 1) Take special measures to prevent chlorinated water from entering the ground or surface waters.
 - 2) De-chlorinate chlorinated water prior to discharge.
4. Cultural Resources:
 - a. The project does not pass through any known archaeological sites. However, it is conceivable that unrecorded archaeological sites could be discovered during the construction.

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- b. In the event that artifacts, human remains, or other cultural resources are discovered during excavations at locations of the Work, the Contractor shall protect the discovered items, notify the Engineer, and comply with applicable law consistent with final EIR Mitigation Measure 4.8-1 as described in Section 1.3.D of this Specification.
- 5. Dust Control, Air Pollution and Odor Control:
 - a. Employ measures to prevent the creation of dust, air pollution and odors consistent with final EIR Mitigation Measure 4.4-1 and 4.4-3 as described in Section 1.3.D of this Specification.
 - b. Comply with Placer County Air Pollution Control District's (PCAPCD) rules and regulations.
 - c. Unpaved areas where vehicles are operated shall be periodically wetted down or given an equivalent form of treatment, to eliminate dust formation.
 - d. Store all volatile liquids, including fuels or solvents in closed containers and provide secondary containment as needed.
 - e. No open burning of debris, lumber or other scrap will be permitted.
 - f. Properly maintain equipment to reduce gaseous pollutant emissions.
- 6. Construction Storage Areas:
 - a. It is the responsibility of the Contractor to secure a storage area for Contractor use. Storage of construction equipment and materials shall be limited to the designated Contractor's storage area.
 - b. Oil wastes (from equipment, etc.) shall not be allowed to flow onto the ground or into surface waters.
 - c. Containers shall be required at the construction site for the disposal of materials such as paint, paint thinner, solvents, motor oil, fuels, concrete wash water, resins and other environmentally deleterious substances.
 - d. No dumping of surplus concrete or grout on the site will be permitted.
- 7. Sanitation:
 - a. During the construction period, provide adequate and conveniently located chemical sanitation facilities, properly screened, for use of construction crews.
 - b. Facilities shall be placed behind sidewalks and at least fifty (50) feet from any drainage ditch, drain inlet, or water way.
 - c. Facilities shall be regularly maintained.
- 8. Fire Prevention:
 - a. Take steps to prevent fires including, but not limited to:
 - 1) Provide spark arrestors on all internal combustion engines.
 - 2) Store and handle flammable liquids in accordance with the Flammable and Combustible Liquids Code, NFPA 30.
 - 3) Provide fire extinguishers at hazardous locations or operations, such as welding.
- 9. Erosion and Sediment Transport Control:
 - a. Keep disturbed areas to the minimum necessary for construction.
 - b. Keep runoff away from disturbed areas during construction.
 - c. rap sediment before it leaves the site, using such techniques as check dams, sediment ponds, or siltation fences.
 - d. Confine earthwork operations to dry periods, whenever possible. If earthwork needs to be scheduled for a wet period, ensure that erosion and sediment transport control measures are ready for implementation prior to the onset of the storm.
 - e. Stabilize disturbed areas as quickly as possible.
 - f. Note that waterways under the jurisdiction of governmental agencies other than the City of Roseville may be subject to additional erosion and sediment control

measures or criteria and it is the responsibility of the Contractor to obtain and adhere to these additional requirements.

D. Environment Impact Report (EIR) Mitigation Measures

1. The following West Roseville Specific Plan (WRSP) EIR Mitigation Measures shall be implemented:
 - a. 4.4-1 Dust Control
 - 1) After review and approval by the PCAPCD, the developer, if required, shall apply approved chemical soil stabilizers according to manufacturer's specifications, to all inactive construction areas (previously graded areas which remain inactive for 96 hours).
 - 2) Reduce traffic speeds on all unpaved surfaces to 15 miles per hour or less.
 - 3) Create a dust control plan.
 - 4) No open burning of vegetation during project construction.
 - 5) Reestablish ground cover as soon as possible after construction.
 - 6) Suspend grading activities when winds exceed 25 mph.
 - b. 4.4-3 Reduction of Construction Emissions
 - 1) The prime contractor shall submit to the PCAPCD a comprehensive inventory (i.e., make, model, year, emission rating) of all the heavy-duty off-road equipment (50 horsepower or greater) that will be used an aggregate of 40 or more hours for the construction project. District personnel, with assistance from the California Air Resources Board, will conduct initial Visible Emission Evaluations of all heavy-duty equipment on the inventory list.
 - 2) An enforcement plan shall be established by the contractor in conjunction with the air district to weekly evaluate project-related on-and-off- road heavy-duty vehicle engine emission opacities, using standards as defined in California Code of Regulations, Title 13, Sections 2180–2194. An Environmental Coordinator, CARB-certified to perform Visible Emissions Evaluations (VEE), shall routinely evaluate project related off-road and heavy-duty on-road equipment emissions for compliance with this requirement. Operators of vehicles and equipment found to exceed opacity limits will be notified and the equipment must be repaired within 72 hours.
 - 3) Contractors shall provide a plan for approval by the PCAPCD demonstrating that the heavy-duty (>50 horsepower) off-road vehicles to be used in the construction project, including owned, leased and subcontractor vehicles, will achieve a project-wide fleet average 30 percent NO_x reduction and 45 percent particulate reduction compared to the most recent CARB fleet average. Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available.
 - 4) Minimize idling time to 10 minutes.
 - 5) Use low sulfur fuel for stationary construction equipment, if feasible.
 - 6) Utilize existing power sources (e.g., power poles) or clean fuel generators rather than temporary power generators.
 - 7) Use low emission on-site stationary equipment.
 - c. 4.7-6 Avoid Nesting Sites
 - 1) To ensure that fully protected bird and raptor species are not injured or disturbed by construction in the vicinity of nesting habitat, implement the following measures:
 - a) When feasible, all tree removal shall occur between August 30 and February 15 to avoid the breeding season of any raptor species that could be using the area, and to discourage hawks from nesting in the vicinity of

- an upcoming construction area. This period may be modified with the authorization of the California Department of Fish and Wildlife (CDFW); or
- b) Prior to the beginning of mass grading, including grading for major infrastructure improvements, during the period between February 15 and August 30, all trees and potential burrowing owl habitat within 350 feet of any grading or earthmoving activity shall be surveyed by the City for active raptor nests or burrows by a qualified biologist no more than 30 days prior to disturbance. Biologist will be hired by the City. If active raptor nests or burrows are found, and the site is within 350 feet of potential construction activity, a fence shall be erected around the tree or burrow(s) at a distance of up to 350 feet, depending on the species, from the edge of the canopy to prevent construction disturbance and intrusions on the nest area. The appropriate buffer shall be determined by the City in consultation with CDFW.
 - c) No construction vehicles shall be permitted within restricted areas (i.e., raptor protection zones), unless directly related to the management or protection of the legally protected species.
 - d) In the event that a nest is abandoned, despite efforts to minimize disturbance, and if the nestlings are still alive, the City shall contact CDFW and, subject to CDFW approval, fund the recovery and hacking (controlled release of captive reared young) of the nestling(s).
 - e) If a legally protected species nest is located in a tree designated for removal, the removal shall be deferred until after August 30th, or until the adults and young of the year are no longer dependent on the nest site as determined by a qualified biologist.
 - f) The City will conduct a pre-construction survey within the phases of the project site that are scheduled for construction activities. The survey shall be conducted by a qualified biologist to determine if burrowing owls are occupying the project site. The survey shall be conducted no more than three weeks prior to grading of the project site. If the above survey does not identify burrowing owls on the project site, then no further mitigation would be required. However, should burrowing owls be found on the project site, the following measures shall be required:
 - g) Avoid all potential burrowing owl burrows that may be disturbed by project construction during the breeding season between February 15 and August 30 (the period when nest burrows are typically occupied by adults with eggs or young). Avoidance shall include the establishment of a 350-foot diameter non-disturbance buffer zone around any occupied burrows. The buffer zone shall be delineated by highly visible temporary construction fencing. Disturbance of any occupied burrows shall only occur outside of the breeding season (August 30 through February 15). Based on approval by the CDFW, preconstruction and nonbreeding season exclusion measures may be implemented to preclude burrowing owl occupation of the project site prior to project related disturbance (such as grading). Burrowing owls may be passively excluded from burrows in the construction area by placing one-way doors in the burrows according to current CDFW protocol. The one-way doors must be in place for a minimum of three days. All burrows that may be occupied by burrowing owls, regardless of whether they exhibit signs of occupation, must be cleared. Burrows that have been cleared through the use of the one-way doors shall then be closed or backfilled to prevent owls from entering the burrow. The one-way doors shall not be used more than two weeks before

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construction to ensure that owls do not recolonize the area of construction.

- d. 4.8-1 Cease Work and Consult with Qualified Archaeologist
 - 1) Should any cultural resources, such as structural features, any amount of bone or shell, artifacts, human remains, or architectural remains be encountered during any subsurface development activities, work shall be suspended within 100 feet of the find, and the City of Roseville shall be immediately notified. At that time, the City shall coordinate any necessary investigation of the site with qualified archaeologists as needed to assess the resource and provide proper management recommendations.
- e. 4.8-9 Provide Proper Management Recommendations
 - 1) Possible management recommendations for important resources could include resource avoidance or data recovery excavations. The Contractor shall implement any measures deemed necessary for the protection of the cultural resources.
 - 2) In addition, pursuant to section 5097.98 of the State Public Resources Code, and section 7050.5 of the State Health and Safety Code, in the event of the discovery of human remains, the County Coroner shall be immediately notified. If the remains are determined to be Native American, guidelines of the Native American Heritage Commission shall be adhered to in the treatment and disposition of the remains.
- f. 4.8.10 Cease Work Until Review Conducted by Qualified Paleontologist and Recommendations Implemented.
 - 1) Should any evidence of paleontological resources (e.g., fossils) be encountered during grading or excavation, work shall be suspended within 100 feet of the find, and the City of Roseville shall be immediately notified. At that time, the City shall coordinate any necessary investigation of the site with a qualified paleontologist to assess the resource and provide proper management recommendations.
 - 2) Possible management recommendations for important resources could include resource avoidance or data recovery excavations. The contractor shall implement any measures deemed necessary by the paleontologist for the protection of the paleontological resources.
- g. 4.9-1 Identify and Remediate Soil Contamination
 - 1) If evidence of soil contamination is encountered in previously unidentified locations in the WRSP Area, work shall cease until the area can be tested, and, if necessary, remediated.
 - 2) Remediation activities could include removal of contaminated soil and/or on-site treatment.
 - 3) As part of this process, the City shall ensure that any necessary investigation and/or remediation activities conducted in the WRSP Area are coordinated with the Roseville Fire Department, Placer County Division of Environmental Health, and, if needed, other appropriate state and/or local agencies.
 - 4) Once a site is remediated, construction may continue. The City shall also continue to update its records concerning contamination or hazards that could be present at facilities or sites adjacent to WRSP Area and take necessary action to ensure that the health and safety of the public is protected.

1.4 RESPONSIBLE PARTY

- A. The Contractor shall comply with all environmental pollution control rules, regulations, ordinances and statutes which apply to any work performed pursuant to the Contract (Refer to General Conditions Section 5 and Section D. Environmental Impact Report

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Mitigation Measures for additional requirements). In the event of any violations, Contractor shall be fully responsible for all fines, citations, penalties and all other judgements that shall be imposed.

PART 2 - PRODUCTS

2.1 INLET FILTERS

- A. Drain inlet filters may be employed.
- B. Horizontal mesh filters attached to the top of or below the drain inlet grate shall not be allowed.
- C. Only high flow volume, bag type filters or others as approved by the City of Roseville, Construction Inspector shall be used.

2.2 EROSION CONTROL BLANKETS

- A. Straw or curled wood fiber blanket between jute netting
- B. Biodegradable, containing no plastic
- C. Contains no weed seeds

2.3 STRAW WATTLES

- A. 100% biodegradable, containing no plastic
- B. Wrapped in medium weight natural burlap

2.4 HYDROMULCH

- A. Mixture of shredded wood fiber, water and tackifier.
 - 1. Wood fiber
 - a. Thermally processed and free of weed or plant seeds.
 - b. Colored with green dye tracer so applied mulch is easily visible
 - c. Produce a uniform slurry when mixed with water and not be toxic to plants or wildlife.
 - d. Apply at 2000 pounds per acre.
 - 2. Tackifier
 - a. Water soluble and, upon drying, will form a stable, nonflammable plastic film with a one-year effective life.
 - b. Non-toxic to plants and wildlife.
 - c. Apply at 150 pounds per acre.

PART 3 - EXECUTION

3.1 DISPOSAL OPERATIONS

- A. Solid Waste Management:
 - 1. Supply solid waste transfer containers. Daily remove all debris such as spent air filters, oil cartridges, cans, bottles, combustibles and litter. Take care to prevent trash and papers from blowing onto adjacent property. Encourage personnel to use refuse containers. Convey contents to a sanitary landfill.

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2. Washing of concrete containers without Contractor having a washout facility or system in place will not be permitted. Concrete on bare soil is prohibited. Remove any excess concrete to the sanitary landfill.
- B. Chemical Waste and Hazardous Materials Management:
1. Furnish containers for storage of spent chemicals used during construction operations. Provide secondary containment. Dispose of chemicals and hazardous materials in accordance with applicable regulations.
- C. Garbage:
1. Store garbage in covered containers, pick up daily and dispose of in a sanitary landfill.
- D. Dispose of vegetation, weeds, rubble, and other materials removed by the clearing, stripping and grubbing operations off site at a suitable disposal site in accordance with applicable regulations.
- E. Excavated Materials:
1. Native soil complying with the requirements of Section 02300, Earthwork, may be used for backfill, fill and embankments as allowed by that section.
 2. Spoil Material:
 - a. Remove all material which are excavated in excess of that required for backfill, and such excavated material which is unsuitable for backfill, from the site and dispose of offsite in accordance with applicable regulations.
 - b. No additional compensation will be paid to the Contractor for such disposal. Include all such costs in the lump sum prices bid for the project.
 - c. Remove rubbish and materials unsuitable for backfill immediately following excavation. Remove material in excess of that required for backfill immediately following backfill operations.
 - d. Rubbish shall consist of all materials not classified as suitable materials or rubble and shall include shrubbery, trees, timber, trash and garbage.

PART 4 - PRODUCTS (NOT USED)

PART 5 - EXECUTION (NOT USED)

++ END OF SECTION ++

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SECTION 01310

PROJECT MEETINGS

PART 1 - GENERAL

1.1 PRE-CONSTRUCTION CONFERENCE

- A. Upon receipt of the Notice to Proceed, or at an earlier time if mutually agreeable, the ENGINEER will arrange a preconstruction conference to be attended by the CONTRACTOR's superintendent or other project representative authorized to commit on the behalf of the CONTRACTOR and to direct the performance of the work by others, the OWNER, the ENGINEER or ENGINEER's representative, and representatives of utilities, major subcontractors, and others involved in the execution of the work.
- B. The purpose of this conference will be to establish a working relationship and understanding between the parties and to discuss subjects as may be pertinent for the execution of the work.
- C. CONTRACTOR shall be prepared to discuss the following subjects, as a minimum:
 - 1. Required schedules.
 - 2. Status of Bonds and insurance.
 - 3. Sequencing of critical path work items.
 - 4. Progress payment procedures.
 - 5. Project changes and clarification procedures.
 - 6. Use of site, access, office and storage areas, security and temporary facilities.
 - 7. Major product delivery and priorities.
 - 8. CONTRACTOR's safety plan and representative.

1.2 PROGRESS MEETINGS

- A. The ENGINEER will arrange and conduct progress meetings. The ENGINEER will prepare and circulate a draft agenda of each meeting. The CONTRACTOR may add items as appropriate to the draft agenda.
- B. Progress meetings will be conducted on a regular basis, at such frequency as the OWNER and CONTRACTOR may mutually agree. Progress meetings shall be attended by the ENGINEER, OWNER Operations personnel, CONTRACTOR's superintendent or other project representative, and representatives of all subcontractors involved in the work at the time of the meeting, required by the CONTRACTOR, or requested by the OWNER.
- C. The purpose of the meetings will be to facilitate the work of the CONTRACTOR and any subcontractor or other organization that is not up to schedule, resolve conflicts, identify and resolve any potential delays or necessary changes in the work and in general, coordinate and facilitate the execution of the work.
- D. The agenda of progress meetings shall include review of work progress, the latest Construction Schedule submittal (monthly), potential project delays, the status of key shop drawings, submittal reviews, information requests, safety concerns, record drawings, and extra work items.

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1.3 CONSTRUCTION SCHEDULE REVIEW

- A. The Construction Schedule will be reviewed monthly during an agreed upon progress meeting to verify at a minimum:
 - 1. Actual start and finish dates of completed activities since the last progress meeting.
 - 2. Durations and progress of all activities not completed.
 - 3. Critical submittals/materials delivery problems.
 - 4. Potential project delays.
 - 5. Any activity behind schedule and CONTRACTOR's plan to bring it back on schedule.
 - 6. Reason, logic, time, and cost data for Change Order work that is to be incorporated into the Construction Schedule or payment request form.
 - 7. Payment due to the CONTRACTOR based on percentage complete of items in the submittal payment request form.
- B. At the progress meeting, the CONTRACTOR shall provide an update of the Construction Schedule as described in Section 01320, Progress Schedule.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

++ END OF SECTION ++

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SECTION 01320
PROGRESS SCHEDULE

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. The work specified in this Section includes the preparation and submittal of a computerized Critical Path Method (CPM) Construction Schedule and of updates and revisions to the Construction Schedule.
- B. The computerized CPM schedule shall be completed using Microsoft Project for Windows or Primavera Project Planner scheduling system and software.
- C. The requirements specified under Section 01330, Submittal Procedures, also apply to the Construction Schedule initial submittal(s) and subsequent updates and revisions.

1.2 REFERENCE

- A. General:
 - 1. Applicable Reference shall be the Associated General Contractors of America (AGC) Publication No. 1107.1, "Construction Planning and Scheduling", latest edition.
 - 2. The preparation of the Construction Schedule, its principles, definitions and terms shall be as set forth in that reference.
 - 3. In case of conflict, the provisions specified in this Section shall govern and supersede conflicting provisions in such reference.

1.3 PREPARATION AND SUBMITTAL PROCEDURE

- A. Responsible Person:
 - 1. Within five days after Notice to Proceed, the CONTRACTOR shall designate, in writing, the person responsible for the preparation of the Construction Schedule.
 - 2. Such person shall have the authority to act on behalf of the CONTRACTOR and be knowledgeable in the preparation of CPM schedules of similar complexity.
 - 3. This person shall meet with the Engineer, within 10 days of the Notice to Proceed for a joint review and approval of the CONTRACTOR's approach.
- B. Initial Schedule Submittal:
 - 1. The Construction Schedule shall be completed and submitted to the Engineer within 30 days after Notice to Proceed.
 - 2. If the initial Construction Schedule submittal is not acceptable to the Engineer, it shall be revised in coordination with observations and comments from the Engineer and resubmitted within 7 days of the return of the schedule to the CONTRACTOR.
- C. By preparing and submitting the Construction Schedule the CONTRACTOR represents that the CONTRACTOR can and intends to execute the work and portions thereof within the specified times and constraints and that the CONTRACTOR's bid covers the costs associated with the execution of work in accordance with the Construction Schedule.
- D. Submittal package.
 - 1. Submittal of the Baseline Construction Schedule shall include the following:

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- a. Network Diagram:
 - 1) A graphic network diagram with legible letters with individual sheets sized approximately 24" by 48".
 - 2) Each activity shall be shown on the diagram with the activity number, description and duration in working days.
 - 3) Five copies and one reproducible shall accompany the submittal.
- b. Five sets of supporting data, if not indicated on the graphic network diagram, including:
 - 1) Number of work days per week.
 - 2) Holidays that will be observed during construction.
 - 3) Number of shifts per day.
 - 4) Major construction equipment used, identifying the time period and activity of use.
 - 5) Average manpower for each week and for each trade.
 - 6) Lost time allowance for weather or other conditions that can be anticipated or projected based on the requirements herein.
 - a) Contractor schedule shall include a minimum of 20 working days total, of lost time allowance.
- c. Five computer printouts as follows:
 - 1) Listing of all activities sorted by total float including early start (ES), late start (LS), early finish (EF), late finish (LF) and Total Float duration for each activity or work item. Each activity or work item will not take more than two lines.
 - 2) Lists of all activities sorted numerically including ES, LS, EF, LF, Total Float.
 - 3) List of all activities sorted numerically with Predecessor/Successor information of precedence network.
2. Submittals of updated Construction Schedules shall include, in addition to the items specified in the preceding subparagraph 1a, 1c, and 1d, the following:
 - a. Changes in the schedule due to approved Change Order or Change Directives or Force Account work.
 - b. CONTRACTOR elected changes in schedule logic, activity duration, or activity start or stop dates.
 - c. A narrative report as needed to define:
 - 1) Changes in logic, activity duration, and manpower and equipment utilization.
 - 2) Problem areas, anticipated delays, and the impact on the schedule.
 - 3) Corrective action recommended and its effect.
 - 4) The effect of changes on schedules of other contractors involved with the work.
 - 5) Coordination of work with others.
 - d. Percentage completion for each activity as agreed to for the monthly progress payments.
- E. If the Construction Schedule, its updates or its revisions, reflect anything not accepted by the Engineer, such Construction Schedule, update, or revision shall be considered as not having been accepted by the Engineer.

1.4 CONSTRUCTION SCHEDULE CONTENT

- A. The Construction Schedule shall be calendar-based, time-scaled, manpower and cost-loaded, using a precedence method diagram in the Critical Path Method (CPM) format indicating the critical path for the execution of the work utilizing the entire contract time.

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1. In the preparation of the Construction Schedule, the CONTRACTOR shall take into account all constraints and requirements specified.
2. Allowance in the Construction Schedule shall be made for Excusable Delays, as defined in the Agreement. These days shall be included as part of the 20 days of lost time allowance specified herein.
3. The diagram shall be clear, legible, and accurate, and show complete sequence of construction by activity and interdependence of activities. Separate discrete lines shall connect linked activities.
4. Activities related to the same physical areas of the work shall be grouped in the same area of the diagram.
5. Activities within each area of the work shall be numbered in separate sequential series, with no overlap of activity numbers between different areas of the work.
6. The diagram shall clearly show a continuous critical path, all constraints, and all required project milestones.
7. The schedule shall describe work activities in appropriate segments so that work in specific areas can be assessed for progress and completion. Activities labeled "start", "continue", or "completion" without measurable increments of work will not be acceptable.
8. The individual work activities in the schedule shall:
 - a. Identify major submittals and submittals for long-lead time Critical Path items and associated review times. Twenty (20) working days shall be used for OWNER review times, unless otherwise specified.
 - b. For equipment with a cost in excess of \$20,000 and all control systems the CONTRACTOR shall allow adequate time for an initial submittal and OWNER review plus (at a minimum) a second (re) submittal and associated OWNER review.
 - c. Identify at a minimum, the execution of the following as separate items for each area of work.
 - 1) Notice to Proceed.
 - 2) Mobilization.
 - 3) Dewatering.
 - 4) Shoring.
 - 5) Excavation.
 - 6) MSE.
 - 7) Backfill.
 - 8) Grading, subbase, base, paving, and curb and gutters.
 - 9) Other site work.
 - 10) Concrete, including installation of forms and reinforcement, placement of concrete, curing, stripping, patching and finishing.
 - 11) Masonry.
 - 12) Metal fastenings, framing structures, and fabrications.
 - 13) Wood structures, finish carpentry, architectural woodwork, and plastic fabrications.
 - 14) Waterproofing and dampproofing, insulation, roofing and flashing, and sealants.
 - 15) Doors and windows (including glass walls), including hardware and glazing.
 - 16) Finishes including coating and painting, flooring, ceiling, and wall covering.
 - 17) Building specialties including furnishings, equipment, and toilet and bath accessories.
 - 18) Process equipment, including separate activities for manufacturing, delivery, and installation.
 - 19) Pumps and drives, including separate activities for manufacturing, delivery, and installation.

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- 20) Conveying equipment including hoists and cranes, conveyor systems, and materials handling equipment, including separate activities for manufacturing, delivery and installation.
- 21) Other mechanical equipment including fans and heating, ventilating, and air conditioning equipment, with separate activities for manufacturing, delivery and installation.
- 22) Case work, including separate activities for fabrication, delivery and installation.
- 23) Storage shelving, including separate activities for fabrication, delivery and installation.
- 24) Trenching and pipe laying.
- 25) Piping, including a separate activity for ordering lead time.
- 26) Valves and gates, including a separate activity for ordering lead time.
- 27) Plumbing specialties.
- 28) Electrical transmission, service, and distribution equipment, including separate activities for ordering, manufacturing, delivery, installation.
- 29) Other electrical work including lighting, heating and cooling, and special systems, including separate activities for ordering, manufacturing, delivery and installation.
- 30) Instrumentation and controls, including separate activities for ordering lead time, manufacturing, delivery and installation.
- 31) Separate activities for functional, performance, and operational testing, for each major system.
- 32) Separate activities for operation and maintenance training for each major system.
- 33) Site cleanup.
- 34) Demobilization.
- 35) Procurement of critical (long lead time) equipment.
- 36) Separate activities for design, ordering, delivery and installation of turn key systems.
- 37) Separate activities for Operational Completion, Contract Completion and other contractually required milestones.
- 38) Any items to be OWNER-furnished which are to be incorporated into the work as part of these Contract Documents.
- d. Provide a monthly activity for preparation of Contract Record Drawings, in accordance with Section 01330, Submittal Procedures with a minimum monthly cost of \$5,000.
- e. Have a duration of not more than 5 working days.
- 9. Information on each activity shall include:
 - a. Concise description of the activity.
 - b. Duration in working days.
 - c. The dates for the beginning and completion of each activity.
 - d. Total float.
 - e. Numerical designation of work items.
 - f. Cost with a breakdown by labor (by man-hours by trade), materials (by type and quantity), equipment (by type and hours) and overhead and profit.
 - g. Reference to associated Scope Area as described in Breakdown of Guaranteed Maximum Price.
- 10. The schedule shall be referenced to calendar dates, and the beginning of the contract time shall be the date of receipt of the Notice to Proceed.
- 11. The schedule shall indicate for every month the total dollar amount of work planned in such month. The sum of monthly amounts shall equal the total bid amount.

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- B. Failure to include an activity required for the execution of the work shall not excuse the CONTRACTOR from completing the work and portions thereof within the specified times and at the price specified in the Contract Documents, and from meeting the constraints specified for sequence of work and control dates.

1.5 UPDATING THE CONSTRUCTION SCHEDULE

- A. The CONTRACTOR shall update the Construction Schedule prior to the progress and schedule review at the monthly progress meetings, as specified in Section 01310, Project Meetings.
- B. The schedule update shall reflect progress to date. The schedule update shall incorporate all revisions to logic and duration, as described below.
- C. The updated Construction Schedule shall be submitted by the CONTRACTOR as specified herein and under Subparagraph 1.3.D.2 in this Section.
 - 1. Logic changes to the schedule shall be approved by the Engineer prior to incorporating them into the schedule.
 - 2. The schedule update submittal shall be provided to the Engineer three working days prior to the monthly progress meeting.
 - 3. If at the progress meeting the Engineer determines that the updated schedule does not accurately reflect the progress of the work to date or project the anticipated progress to date or is otherwise unacceptable to the OWNER, the CONTRACTOR shall revise the schedule within 5 working days thereafter.
 - 4. If the CONTRACTOR fails to submit to the Engineer the updated Construction Schedule, in accordance with the findings at the progress meeting, as described above, or if it is submitted and found unacceptable by the Engineer, no monthly progress payment will be made.
- D. Updates shall be performed on the most recent accepted version of the Construction Schedule.

1.6 REVISIONS TO CONSTRUCTION SCHEDULE

- A. The cost of revision to the Construction Schedule not resulting from contract change orders shall be borne by the CONTRACTOR.
- B. Except as specified in the preceding Subparagraph A, the cost of revisions to the Construction Schedule resulting from contract change orders in the work shall be included in the cost for the contract change orders.
- C. Corrections resulting from the Engineer's review and comments shall be carried out as specified for Construction Schedule update.
- D. Revisions shall be made on the most recent accepted version of the Construction Schedule.

1.7 ADJUSTMENT OF THE CONTRACT TIME AND CHANGE ORDERS

- A. Adjustments of the contract time due to delays, additional work, or any other cause will only be issued through a contract change order in accordance with the General Conditions.

1. In the event the CONTRACTOR requests an adjustment of the contract time, the CONTRACTOR shall furnish such justification, Construction Schedule data, and supporting evidence as the Engineer may deem necessary, for a determination as to whether or not the CONTRACTOR is entitled to an adjustment of time under the provisions of the Contract.
 - a. The CONTRACTOR shall submit proof based on revised activity logic, durations, and costs with each request.
 2. The Construction Schedule shall clearly indicate that the CONTRACTOR has used, in full, all the float time available for the work involved in the request.
 3. Total and free float is not for the exclusive use or benefit of either the OWNER or the CONTRACTOR, but is a resource available to both parties for the benefit of the project on a first needed basis.
 4. The CONTRACTOR shall not be entitled to additional compensation due to schedule impacts for change order work that extends the contract beyond the scheduled completion date, but not beyond the contract completion date.
 5. The Engineer's determination as to the adjustment of the contract time will be based upon the latest version of the Construction Schedule accepted at the time of the alleged delay, and all other relevant information.
 6. Actual delays in activities which, according to the Construction Schedule, do not affect the critical path work, will not be the basis of for an adjustment to the contract time.
 7. If the Construction Schedule shows that the project is behind schedule (i.e., has negative float) then no time extensions will be allowed for contract change orders unless they create a critical path delay in excess of that already occurring. In that case, the time extension allowed will only be that amount which exceeds the already occurring delay.
- B. Change Order Requests:
1. The CONTRACTOR shall include, as part of each change order request for which the Contractor is requesting an adjustment in the contract duration, a subnetwork showing logic revisions, duration changes, and cost changes, for the work in question and its relationship to other activities on the Construction Schedule.
 2. The CONTRACTOR shall incorporate each Change Order into the Project Schedule.
- C. The Engineer will, within 15 working days after receipt of such request and supporting evidence, review the facts and advise the CONTRACTOR in writing thereof.
- D. The new Construction Schedule data, if accepted by the Engineer, shall be included in the next monthly updating of the schedule.
- E. Where the Engineer has not yet made a final determination as to the adjustment of the contract time, and the parties are unable to agree as to the amount of the adjustment to be reflected in the Construction Schedule, the CONTRACTOR shall reflect that amount of time adjustment in the Construction Schedule as the Engineer may determine as appropriate for such interim purpose.
1. It is understood and agreed that any such interim determination by the Engineer shall not be binding and shall be made only for the purpose of continuing to schedule the work, until such time as final determination as to any adjustment of the contract time acceptable to the Engineer has been made.
 2. The CONTRACTOR shall revise the Construction Schedule prepared thereafter in accordance with the final decision.

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PART 2 - NOT USED

PART 3 - EXECUTION

3.1 IDENTIFICATION OF SUBMITTALS

- A. Completely identify each Construction Schedule submittal and resubmittal by showing at least the following information:
1. Name and address of submitter, plus name and telephone number of the individual who may be contacted for further information.
 2. Name of project as it appears in this Specification and specification number.
 3. Whether this is an original or updated submittal or resubmittal.
 4. Number all submittals sequentially in accordance with Section 01330, Submittal Procedures.

+ + END OF SECTION + +

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SECTION 01322

WEB BASED DOCUMENT CONTROL

PART 1 - GENERAL

1.1 SUMMARY

- A. The project team will use and maintain a web-based database as the primary means of communication related to the Project's correspondence, submittals, requests for information (RFIs), advisory notices, and non-compliance issues. Correspondence from the Contractor shall be sent to the Construction Manager via the PROCORE System.
- B. The Construction Manager and Contractor shall utilize PROCORE's system for electronic submittal of all data and documents (unless specified otherwise by the Construction Manager) throughout the duration of the Contract. PROCORE is a web-based electronic media site that is hosted by PROCORE LLC utilizing their PROCORE web solution. PROCORE will be made available to all Contractor's project personnel. The joint use of this system is to facilitate; electronic exchange of information, automation of key processes, and overall management of the Contract. PROCORE shall be the primary means of project information submission and management. When required by the Construction Manager, paper documents will also be required. In the event of discrepancy between the electronic version and paper documents, the paper documents will govern. PROCORE is a registered trademark of PROCORE LLC.

1.2 USER ACCESS LIMITATIONS

- A. The Construction Manager will control the Contractor's access to PROCORE by allowing access and assigning user profiles to accepted Contractor personnel. User profiles will define levels of access into the system; determine assigned function-based authorizations (determines what can be seen) and user privileges (determines what they can do).

1.3 AUTOMATED SYSTEM NOTIFICATION AND AUDIT LOG TRACKING

- A. Review comments made (or lack thereof) by the Construction Manager and Design Consultant on Contractor submitted documentation shall not relieve the Contractor from compliance with requirements of the Contract Documents. The Contractor is responsible for managing, tracking, and documenting the Work to comply with the requirements of the Contract Documents. The Construction Manager's acceptance via automated system notifications or audit logs extends only to the face value of the submitted documentation and does not constitute validation of the Contractor's submitted information.

1.4 CONTRACTOR RESPONSIBILITY

- A. The Contractor shall be responsible for the validity of their information placed in PROCORE and for the abilities of their personnel. Accepted users shall be knowledgeable in the use of computers, including Internet Browsers, email programs, CAD drawing applications, and Adobe Portable Document Format (PDF) document distribution

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program. Adobe PDF documents will be created through electronic conversion rather than optically scanned whenever possible. The Contractor is responsible for the training of their personnel in the use of PROCORE (outside what is provided by the Construction Manager) and the other programs indicated above as needed.

1.5 USER ACCESS ADMINISTRATION

- A. Provide a list of Contractor's key PROCORE personnel for the Construction Manager's acceptance. The Construction Manager is responsible for adding and removing users from the system. The Construction Manager reserves the right to perform a security check on all potential users.

1.6 CONNECTIVITY PROBLEMS

- A. PROCORE is a web-based environment and therefore subject to the inherent speed and connectivity problems of the Internet. The Contractor is responsible for its own connectivity to the Internet. PROCORE response time is dependent on the Contractor's equipment, including processor speed, Internet access speed, etc. and current traffic on the Internet. The Owner and Construction Manager will not be liable for any delays associated from the usage of PROCORE including, but not limited to: slow response time, down time periods, connectivity problems, or loss of information. The Contractor will ensure that its connectivity to the PROCORE system (whether at the home office or job site) is accomplished through some form of high-speed communications with 128 kb/s as the minimum bandwidth requirements for using the system. It is recommended a faster connection be used when uploading pictures and files into the system. Under no circumstances shall the usage of PROCORE be grounds for a time extension or cost adjustment to the Contract. If there are problems that persist with the PROCORE site for more than 24 consecutive hours that prevent the electronic submission of data by the Contractor, the Contractor may submit documents in paper form to the Construction Manager until such time that the Construction Manager notifies the Contractor that the PROCORE site is operable and available for use. Construction Manager shall likewise send documents to Contractor in paper form during such disruption of the Procure system.

1.7 TRAINING

- A. The Construction Manager has arranged for the following training to be provided to the Contractor. The Construction Manager will provide a one-hour training class to the Contractor within ten (10) days of NTP at a time mutually agreeable to Contractor and Construction Manager. Thereafter the Construction Manager will provide up to one hour of additional training via telephone during the project per month of the project life.

PART 2 - PRODUCTS

2.1 GENERAL

- A. In order to process correspondence, submittals, and RFIs, the Contractor must provide and have in place for its own use the required basic components outlined below.
 - 1. Hardware

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- a. A computer with internet access and sufficient capabilities to perform all project duties; a scanner at least large enough to scan 11" x 17" sheets with sufficient resolution to maintain clarity and legibility of the document at its native size; and a color printer of sufficient size and capacity to accept incoming correspondence as described in this section.
2. Software
 - a. Adobe Acrobat 9 or higher; Microsoft's Internet Explorer v7 or higher; Microsoft Office 2010 or higher, including but not limited to Microsoft Word and Microsoft Excel.
 - b. PROCORE currently supports Mozilla's Firefox v3.5 and newer, Apple's Safari v4 and newer, Google Chrome, and Microsoft's Internet Explorer v7 and v8 web browsers for accessing the application. Certain functions may not be available when using any program other than the newest version of Microsoft's Internet Explorer.
3. Facilities
 - a. The Contractor shall make its own arrangements to provide high-speed (minimum speed: download 1Mbps/upload 256Kbps) internet connection for its own use as soon as practicable.

PART 3 - EXECUTION

3.1 SUMMARY

- A. Items to be uploaded to PROCORE by the Construction Manager include but are not limited to: RFI responses, Submittal comments, Clarification letters, Design Clarifications, Field Orders, et al. These items will be emailed via PROCORE as attachments in PDF file format via PROCORE. These attachments may include files that need to be viewed and/or printed in color. Formal letters, stop notices, Field Orders, Progress Payment Requests, and Contract Change Orders will always include a wet-signed hard copy.
- B. Items to be uploaded to PROCORE by the Constructor include but are not limited to: RFI, Submittals, Request for Clarification letters, Request for Design Clarification letters, et al. These items will be emailed via PROCORE as attachments in PDF file format via PROCORE. These attachments may include files that need to be viewed and/or printed in color. Contractor shall provide wet-signed hard copies of documents required by Contract Documents, as well as any documents requested by the Construction Manager, including but not limited to: Formal letters, Progress Payment Requests, and Contract Change Orders, et al.

3.2 PROCURE UTILIZATION

- A. All project related correspondence (RFIs, submittals, etc.) originated by the Contractor or Subcontractor, Supplier, et al. shall be directed to the Construction Manager, unless otherwise indicated in the Specifications.

3.3 SUBMITTALS

- A. The use of the electronic communication does not waive the requirement for the provision of hard copies of all formal correspondence and submittals. The hard copies of all documents must match the electronic copies of all correspondence and submittals.
- B. Submittals shall be in accordance with Section 01300. The provisions of Section 01300 shall apply both to electronic copies and hard copies of submittals.
- C. In addition to above, PROCORE shall be utilized in connection with submittal preparation and information management required by but not limited to Sections:
 - 1. Section 01320, **PROGRESS SCHEDULES**.
 - 2. Section 01300, **SUBMITTALS**.
- D. PROCORE will be utilized by all other Sections not listed above and as required by the Construction Manager.
- E. If a submittal package has multiple items that are not directly related, each item shall be considered a separate submittal and shall be sent separately. For example, "Concrete Mix Design," and "Concrete Curing Compound" shall be submitted as separate items to the Construction Manager.

3.4 TERMINATION IN USE

- A. The Owner may request a termination of the use of PROCORE for the electronic submission of data, and alternatively the use of paper documents submitted in accordance with the Contract Documents by providing notification in writing with ten (10) days' notice that it intends to discontinue use of PROCORE.

3.5 ADOBE PDF

- A. All information, comments, questions, and statements shall be scanned and/or converted to the PDF file format and attached to the email via PROCORE. Items to be sent via email via PROCORE include but are not limited to large-format plan sheets (22" x 34" or larger), small-format plan sheets, pages within tabbed binders, RFIs, transmittal sheets, et al. The PDF attachments supplied to the Construction Manager shall be in a sufficient resolution to be fully legible at its native size.
- B. All separate files within a given piece of correspondence shall be combined into a single PDF document (e.g. An RFI that contains a text file and two photo files shall be combined into a single PDF document prior to delivery to the Construction Manager.)

3.6 LABELING FORMAT

- A. The subject line of each email via PROCORE, and the file name of any attached files, shall be in accordance with Section 01330-1.3.A.2 for submittals and as directed by Construction Manager other correspondence (RFIs, Letters, Transmittals, Proposed Change Orders, et al.)
- B. Label shall include the type of correspondence (i.e. RFI, etc.), a unique number, sequentially assigned for the given piece of correspondence. The Contractor will

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indicate the subject at the end of the numbering scheme with a description (key words) of the item. Each piece of correspondence shall be sent in a separate email via PROCORE.

3.7 ORIGINAL DOCUMENTS

- A. Where possible, the Contractor will obtain the electronic document from its original source to maintain the integrity, legibility, and searchability of the document.

3.8 ORGANIZATION

- A. The information included in the attachments shall be organized in a logical and thoughtful manner. Where the information originated in a tabbed format (a binder, for example), the scanned and/or converted PDF file shall be electronically bookmarked accordingly using the "bookmark" function of Adobe Acrobat 9 Std.

3.9 PRINTING

- A. Except where otherwise indicated, the Contractor will receive no hard copies of the above outlined correspondence. The Contractor will be required to print for its use, in color if necessary, any record copies, field copies, sub-Contractor copies, etc., if such copies are desired.

3.10 PROJECT FORMS

- A. The Contractor may use its own correspondence forms to be attached to correspondence emails via PROCORE as long as the Contractor's forms comply with this and all submittal sections.

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SECTION 01330

SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 GENERAL

A. General:

1. This Section outlines in general the items that the CONTRACTOR must prepare or assemble for submittal during the progress of the work.
2. There is no attempt herein to state in detail all of the procedures and requirements for each submittal.
3. The CONTRACTOR's attention is directed to the individual Specification Sections in these Contract Documents, which may contain additional and special submittal requirements.
4. The OWNER reserves the right to direct and modify the procedures and requirements for submittals as necessary to accomplish the specific purpose of each submittal.
5. The CONTRACTOR shall anticipate resubmitting submittals for major pieces of equipment and for control systems.
6. Should the CONTRACTOR be in doubt as to the procedure, purpose, or extent of any submittal, inquiries shall be directed to the ENGINEER.

B. Schedule of Submittals:

1. Within 15 working days of the Notice to Proceed, the CONTRACTOR shall submit a complete list of anticipated submittals with specification/drawing references and proposed times for submitting, reviewing and processing of submittals.
2. This list shall be updated with "late start" submittal dates within 15 working days of submittal of the CONTRACTOR's Construction Schedule.
3. The submittal dates shall be updated upon approval of the Construction Schedule and periodically thereafter.
4. Any additional submittals shall also be included in updates.
5. Additional submittals and resubmittals shall be provided in a timely manner without delaying the project.
6. Within 30 working days after the Notice to Proceed, CONTRACTOR shall submit all submittals to start construction including, but not limited to, any priority submittals identified during the Design-Assist process.

1.2 ADMINISTRATIVE SUBMITTALS

- A. The CONTRACTOR is reminded of their obligation as required by law to make required submittals promptly to the applicable federal, state, or local agency. Failure to comply with this requirement may result in the withholding of progress payments and make the CONTRACTOR liable for other prescribed action and sanctions.
- B. The CONTRACTOR shall submit to the ENGINEER a copy of all letters relative to the Contract, transmitting notifications, reports, certifications, certified payrolls, and the like, that the CONTRACTOR submits directly to a federal, state, or other governing agency.
- C. During the performance of the Contract, the CONTRACTOR shall maintain on a daily basis, and submit to the ENGINEER as requested, full and correct information as to the number of persons employed in connection with each subdivision of the work, the

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classification, rate of pay, citizenship status, and address of each person, and the cost, source, and amount of each class of materials delivered, equipment received, and major construction equipment used in each subdivision of the work.

D. Certified Payroll:

1. No later than the 25th day of each month, the CONTRACTOR shall submit to the ENGINEER a copy of the CONTRACTOR's certified payroll for the previous month, and if requested, copies of certified payrolls for Subcontractors.
2. The payrolls shall include for each employee the full name, address and social security number; the correct classification and rate of pay (including rates of contributions for, or costs assumed to provide various fringe benefits); daily and weekly hours worked; itemized deductions and actual wages paid.
3. The certified payrolls shall be on State of California forms.

1.3 TECHNICAL SUBMITTALS

A. General:

1. Requirements in this Section are in addition to any specific requirements for submittals specified in other divisions and Sections of these Contract Documents.
2. Submittal Contents and Numbering:
 - a. Each submittal shall have the specification Section and applicable paragraph number clearly identified on the front of the submittal transmittal form for each item submitted. The number shown on the transmittal form for each item shall be labeled in the content of the submittal. For example, if Item 1 is a ball Valve and Item 2 is a gate valve then the cut sheets for each respective valve shall be labeled Item 1 and Item 2.
 - b. Each submittal shall be sequentially numbered starting with the first one delivered for each spec section. For example, the first submittal for Section 02300 should be 02300-1-0.
 - c. Resubmittals shall include the number of the original submittal plus the suffix "-1" for the first resubmittal, "-2" for the second resubmittal. For example, a second resubmittal would be shown as 02300-1-1. Each resubmittal shall be the whole version of the corrected submittal, and shall not reference past versions. Each resubmittal shall include all items including items previously marked as NET.
 - d. Submittals not conforming to these requirements will be rejected.
 - e. If several items (i.e. different types of valves) are combined into the same submittal, none of the items will be approved for installation until the entire submittal is accepted.
3. Submitted data shall be fully sufficient in detail for determination of compliance with the provisions and intent of the Contract Documents.
4. Coordination Responsibilities:
 - a. Shop drawing submittal and coordination are the responsibility of the CONTRACTOR; this responsibility shall not be delegated in whole or in part to Subcontractors or suppliers.
 - b. Designation of work "by others," if shown on shop drawings, shall mean that the work will be the responsibility of the CONTRACTOR rather than the Subcontractor or supplier who has prepared the shop drawings.
5. No equipment or material for which listings, drawings, or descriptive material is required shall be fabricated, purchased, or installed until the ENGINEER has reviewed and accepted such lists, final shop drawings, or other descriptive material. Installation of such equipment or material without accepted submittals will be considered defective work.
6. Submittal Review Time:

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- a. Submittals will be acted upon by the ENGINEER as promptly as possible and returned to the CONTRACTOR not later than the time allowed for review in Paragraph B.4 below.
 - b. The CONTRACTOR shall provide in their Construction Schedule the time for OWNER review of each submittal (and resubmittal for major equipment and control systems) in accordance with the allowable time specified herein and in Section 01320, Progress Schedule.
 - c. This required time for OWNER review shall not be a cause for delay in contract completion nor shall it be a reason for an extension of contract time.
 - d. If the CONTRACTOR is required by the OWNER to resubmit data, then neither the time required for the CONTRACTOR to prepare and resubmit such data, nor the required time for OWNER review, shall be a cause for delay in contract completion or for an extension of contract time.
 - e. Responsibility for time required for preparing and submitting required data shall be assigned solely to the CONTRACTOR.
7. Excessive Submittal Review:
 - a. It is considered reasonable that the CONTRACTOR shall make a complete and acceptable submittal to the ENGINEER by the second submission of a submittal item.
 - b. Additional costs of the ENGINEER's review beyond the second submission shall be the responsibility of the CONTRACTOR and may be deducted from the monthly progress payments.
 - c. This applies to all submittals including shop drawings.
8. Changes After Review:
 - a. After a submittal has been reviewed and accepted, no changes or substitutions in that submittal will be allowed without the ENGINEER's approval.
 - b. If allowed, the CONTRACTOR will be responsible for the additional costs for engineering, administrative, clerical or other work required for additional review.
9. Intent of Review:
 - a. Shop drawings will be reviewed for general conformance with the drawings and specifications.
 - b. The intent of the review is to determine if the CONTRACTOR is submitting materials and equipment which are in general conformance with the Contract Documents.
 - c. Detailed review of dimensions, sizes, space requirements, coordination with other equipment, and other construction details is not performed.
 - d. Additional work and costs, resulting from errors in the shop drawings shall be the CONTRACTOR's responsibility and liability.
 - e. Accuracy, coordination, and completeness of shop drawings shall be the sole responsibility of the CONTRACTOR, including responsibility to backcheck comments, corrections, and modifications from the ENGINEER's review before fabrication.
10. The CONTRACTOR shall indicate on the submittal transmittal form if and how the submittal deviates from the contract requirements. In addition, CONTRACTOR shall include a copy of the relevant specification section in its entirety marked with ACCEPT/DEVIATE next to each paragraph. Failure to include this documentation is grounds for ENGINEER to reject and return the Submittal to the CONTRACTOR for resubmission.
11. Rebar Shop Drawings:
 - a. The CONTRACTOR shall supply the ENGINEER with a copy of all reinforcing steel detail drawings.
 - b. Changes to the Contract Documents made by the CONTRACTOR in reinforcing steel shop drawings shall be called out in the letter of submittal.

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- c. Such changes will not be acceptable unless the ENGINEER has expressed consent to such changes in writing.
- 12. Submittals of shop drawings, layout diagrams, catalog cuts and data, test reports, and information in sufficient detail to show complete compliance with all specified requirements shall be furnished to the ENGINEER, covering but not limited to the following items (as applicable):
 - Aggregate Base Course
 - Air compressors
 - Asphalt mixes
 - Block masonry
 - Building specialties
 - Cabinets
 - Caulking and sealing compounds
 - Chemical systems
 - Concrete mixes
 - Control panels
 - Demolition plan
 - Detection systems
 - Doors and frames
 - Electrical conduit, wire and specials
 - Electrical fixtures and appliances
 - Electrical load centers
 - Electrical substations
 - Electrical conduit, wire and specials
 - Engineered fill
 - Engines and appurtenances
 - Equipment provided by the CONTRACTOR
 - Fences, barricades and gates
 - Gas monitoring systems
 - Generators and appurtenances
 - Glazing
 - Grating
 - Gravel bedding
 - Grout
 - Hardware
 - Heating, ventilating and air conditioning equipment
 - Imported fill
 - Indicators
 - Instrumentation
 - Irrigation system plan
 - Landscaping
 - Lights and lighting fixtures
 - Louvers
 - Meters
 - Miscellaneous fabricated metals
 - Miscellaneous furnishings
 - Mixers
 - Motor control centers
 - Motors, starters and controls
 - Office equipment and furnishings provided by CONTRACTOR
 - Paints, coatings and finishes
 - Piles
 - Pipe, fittings and specials

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Pipe supports and anchors
Planting plan
Plumbing fixtures
Precast concrete elements
Pressure gauges
Primary elements
Programmable logic controllers
Pumps
Recorders
Reinforcing steel and layout drawings
Roofing and waterproofing
Sheet pile, shoring and bracing
Shelving
Signs
Structural steel
Tanks
Temporary bypasses
Temporary dewatering systems and equipment
Valve and gate operators and controllers
Valves and gates
Variable frequency drives
Water heaters
Windows
Workstations

B. Submittal Procedure:

1. Unless otherwise required in this specification section, the CONTRACTOR shall submit to the ENGINEER for review one electronic copy in PDF format of each submittal (shop drawings, electrical diagrams, and catalog cuts for fabricated items and manufactured items furnished under this Contract, etc.) All electronic submittals from the Contractor shall be sent to the Construction Manager via the project Web Based Document Control (PROCORE LLC) per Section 01322.
2. Electronic PDF copies shall include electronic bookmarks for each section of the submittal to aid in navigation.
3. Hard copies of submittals shall only be provided where it is not feasible to provide submittals in electronic format.
4. Submittals shall be submitted in sufficient time to allow the ENGINEER not less than twenty (20) working days for examination and response, except for:
 - a. Designs for turnkey items for which thirty (30) working days will be allowed, and
 - b. Substitutions for which (40) working days will be allowed.
5. Shop drawings shall be accurate, distinct, and complete, and shall contain all required information, including satisfactory identification of items, units, and assemblies in relation to the Contract Drawings and Specifications.
6. CONTRACTOR Certification:
 - a. Shop drawings shall be submitted only by the CONTRACTOR, who shall indicate by a signed stamp on the shop drawings, or other approved means, that the CONTRACTOR has checked and approved the shop drawings, and that the work shown is in accordance with Contract requirements and has been checked for dimensions and relationship with work of all other trades involved.
 - b. Submitting incomplete or unchecked shop drawings for the ENGINEER to correct or finish will not be acceptable, and shop drawings that, in the opinion of the ENGINEER, indicate that they have not been checked by the CONTRACTOR will be rejected and returned to the CONTRACTOR for resubmission in the proper form.

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7. Return of Reviewed Submittals:
 - a. When the shop drawings have been reviewed by the ENGINEER, the appropriate number of submittals will be returned to the CONTRACTOR appropriately stamped.
 - b. If major changes or corrections are necessary, the shop drawing will be rejected and returned to the CONTRACTOR with the need for such changes or corrections indicated.
 - c. The CONTRACTOR shall correct and resubmit rejected shop drawings in the same manner and quantity as specified for the original submittal.
 - d. If changes are made by the CONTRACTOR (in addition to those requested by the ENGINEER) on the resubmitted shop drawings, such changes shall be clearly explained in a transmittal letter accompanying the resubmitted shop drawings.
 8. The review of such shop drawings and catalog cuts by the ENGINEER shall not relieve the CONTRACTOR from responsibility for correctness of dimensions, fabrication details, coordination with other work, and space requirements, or for deviations from the Contract Drawings or Specifications, unless the CONTRACTOR has called attention to such deviations in writing by a letter accompanying the shop drawings and the ENGINEER approves the change or deviation in writing at the time of submission; nor shall review by the ENGINEER relieve the CONTRACTOR from the responsibility for errors in the shop drawings.
 9. The CONTRACTOR agrees that shop drawing submittals processed by the ENGINEER do not become Contract Documents and are not Change Orders; that the purpose of the shop drawing review is to establish a reporting procedure and to permit the ENGINEER to monitor the CONTRACTOR's progress and understanding of the design.
- C. Shop Drawing Requirements: Shop drawings referred to herein shall include shop drawings, catalog cuts and information schematic diagrams, and other submittals for both shop and field-fabricated items. The CONTRACTOR shall submit, as applicable, the following for all prefabricated or manufactured structural items, material, and equipment:
1. General:
 - a. For structures, submit all shop, setting, equipment, miscellaneous iron and reinforcement drawings and schedules necessary for construction. The foregoing shall include detailed "pour drawings" which shall show the sequence of concrete placement, and the type, quantity and location of all embedment items (sleeves, anchor bolts, door frames, etc.)
 - b. For pipelines, submit a detailed layout of the pipeline with details of clearances for crossings, bends, closure pieces and fabricated specials and furnish any other details necessary.
 - c. For trench excavation, submit detailed plan showing the design of shoring, bracing, sloping or other provisions necessary for safety.
 - d. For boring and jacking, submit a detailed description of the process to be used.
 - e. For equipment which requires electrical service, submit detailed information to show power supply requirements, MCC and control panel, elevations, wiring diagrams, control and protection schematics, shop test data, operation and maintenance procedures, outline drawings, and manufacturer's recommendation of the interface/interlock among the equipment.
 - f. For mechanical equipment submit all data pertinent to the installation and maintenance of the equipment including shop drawings, anchorage requirements, manufacturer's recommended installation procedure, detailed installation drawings, test data and curves, operation and maintenance manuals, and other details necessary.

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- g. For architectural fabrication submit all data pertinent to the installation of the fabrications, including shop drawings, manufacturer's recommended installation procedure, detailed installation drawings, and other details necessary.
 - h. For shop drawings or equipment drawings, including dimensions, size and location of connections to other work, and weight of equipment.
 - i. Installation or placing drawings for equipment, drives, and bases.
 - j. Supporting calculations for equipment and associated supports, or hangers required or specified to be designed by equipment manufacturers, including seismic restraint information and details.
 - k. Complete coating manufacturer's specifications, including materials description and paint system.
 - l. Performance data and head vs. flow curves for compressor and pumps.
 - m. Suggested spare parts list with current price information.
 - n. List of special tools required for checking, testing, parts replacement, and maintenance. (Special tools are those which have been specially designed or adapted for use on parts of the equipment, and which are not customarily and routinely carried by maintenance mechanics.)
 - o. List of special tools furnished with the equipment.
 - p. List of materials and supplies required for the equipment prior to and during startup.
 - q. Installation instructions.
 - r. List of materials and supplies furnished with the equipment.
 - s. Samples of finish colors for selection.
 - t. Special handling instructions.
 - u. Requirements for storage and protection prior to installation.
 - v. Requirements for routine maintenance required prior to plant startup.
 - w. Startup and operating instructions.
 - x. Seismic design calculations and restraint details for equipment and piping supports. Calculations shall be stamped by a Civil or Structural Engineer registered in the State of California.
2. Electrical:
- a. Wiring and control diagrams of systems and equipment. Local control panel details.
 - b. List of special motor features being provided (e.g., space heaters, altitude corrections, thermal protectors, mounting arrangement, etc.).
 - c. Complete motor rating for all motors, including motor no-load, starting, and full-load current at rated voltage; full-load speed and full-load current at 110 percent voltage; motor service factor; motor efficiency and power factor at 1/2, 3/4, and full-load at rated voltage; recommended maximum kVAR of power factor correction capacitors when capacitors are switched with motor.
 - d. See Division 16, ELECTRICAL, for additional specific submittal requirements.
3. Instrumentation and Control:
- a. See Technical Sections for additional specific submittal requirements.
 - b. The submittals shall include satisfactory identification of items, units, and assemblies in relation to the Specification Section number, and the system or equipment identification or tag number shown on the Drawings, the Process and Instrumentation Diagram (P&ID), or as provided in applicable Specification Section.
- D. Submittals required for foreign-manufactured items:
- 1. In addition to the submittal requirements stated above, suppliers of foreign-manufactured items shall submit the names and addresses of companies within the United States that maintain technical service representatives and a

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complete inventory of spare parts and accessories for each foreign-made item proposed for incorporation into the work. Failure to provide the foregoing capabilities shall be just cause for rejection of the foreign-manufactured items.

- E. Final shop drawings to be submitted to OWNER:
 - 1. Complete sets of reproducible (full size mylar or vellum base) final shop drawings shall be submitted to the OWNER before, or at the time of, delivery of equipment onto the site.
- F. Seismic loading design provisions:
 - 1. All equipment supports that are not specifically detailed on the Drawings or specified herein shall be the responsibility of the equipment manufacturers and shall be designed by a Civil or Structural Engineer registered in the State of California.
 - 2. The design shall be in accordance with the seismic provisions of the latest edition of the 2016 edition of the California Building Code (CBC) and of the seismic design requirements listed in Section 01610, General Equipment Requirements, in addition to all other loading conditions.
- G. Submittal of interface information (connection and correlation with other work):
 - 1. Where called for in the Specifications, and as determined necessary by the ENGINEER to provide proper correlation with other equipment, complete interface information shall be submitted.
 - 2. This interface information shall be accurate and contain all information necessary to allow the completion of detailed design and construction of the interfacing or connecting work.
 - 3. The CONTRACTOR shall include in their negotiation for subcontract work, such agreements as may be necessary to ensure the accuracy of Subcontractor's interface submittal information.
 - 4. In the event additional costs are incurred due to subsequent changes to information given in said interface information, such additional costs shall be borne by the CONTRACTOR.
- H. Contract As-Built Drawings:
 - 1. The CONTRACTOR shall deliver to the OWNER one complete set of final Contract As-Built Drawings for OWNER records before the contract will be accepted by the OWNER. The Contract As-Built Drawings will consist of a set of reproducible drawings of all CONTRACTOR supplied equipment (including control systems) and a marked-up set of Contract As-Built Drawings.
 - 2. As-Built Drawings of CONTRACTOR-Supplied Equipment
 - a. The drawings shall be silver imaged, positive, reverse-reading duplicates (image reversed when viewed from emulsion side), and at the same dimensional scale as the originals. They shall be on a polyester translucent base material with a matte surface on the side opposite the emulsion side. The image emulsion side shall be without a matte surface. The matte surface shall have a sufficient tooth to take a solid opaque line from a 4H pencil and be compatible to the use of ink. Minimum sheet thickness shall be (.08 mm) .003 inch.
 - b. The legibility and contrast of each drawing submitted to the OWNER shall be such that every line, number, letter, and character is clearly readable in a full size blow back from a 35 mm microfilm negative of the drawing.
 - c. The overall dimensions of each drawing submitted to the ENGINEER shall be equal to one of the OWNER's standard sheet sizes. The title block area in the lower right hand corner of each drawing shall be clear of all linework, dimensions, details, and notes, except for the CONTRACTOR's title block. The dimensions of

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the title block area are minimum and are measured from the edges of the drawing sheet.

DRAWING FORMAT	
Sheet Sizes Height x Width	Title Block Area Height x Width
11" x 8-1/2"	2-1/2" x 3-3/4"
11" x 17"	3" x 4"
22" x 34"	3-1/2" x 8"

3. Contract As-Built Drawings

- a. The CONTRACTOR shall keep an up-to-date set of marked-up Contract Drawings on an OWNER-supplied set of Drawings.
- b. The OWNER-supplied set of Drawings will consist of one set of full-size sepia reproductions of the Contract Drawings, supplied to the CONTRACTOR at the start of the work.
- c. During the progress of the work, the CONTRACTOR shall record on the Contract As-Built Drawings any changes from or additions to the work described in the Plans and Specifications.
- d. All information recorded on the Contract As-Built Drawings shall be clearly legible.
- e. Information to be recorded on the Contract As-Built Drawings shall include, but not be limited to, the following:
 - 1) Actual routing of electrical conduits, whose routing is only indicated in general on the Drawings.
 - 2) Actual location of manhole structures.
 - 3) Actual alignment of all installed pipe.
 - 4) Specific details of pipe connections, and manhole structures.
 - 5) Specific details on the installation and connection of mechanical and electrical equipment.
 - 6) Field dimensions where they differ from those shown on the Drawings.
 - 7) Additions to and/or deletions from the work, including all contract change orders.
 - 8) Other details showing as-built conditions, which are shown differently or only in general on the Drawings.
 - 9) Addenda.
 - 10) Location of buried features located during construction except utility service connections.
- f. It is the CONTRACTOR's responsibility to ensure that any changes, deletions, specific construction details, etc., performed by a Subcontractor are recorded on the Contract As-Built Drawings.
- g. Location Survey:
 - 1) The CONTRACTOR shall professionally survey the lateral and vertical position of anything buried underground as part of this Contract to within one inch accuracy of the benchmark and baseline provided by the OWNER.
 - 2) The survey information shall be included on the record drawings and the CONTRACTOR shall not be allowed to cover the buried materials until after the

OWNER's inspector has verified the information as accurate and complete, and is shown on the Contract As-Built Drawings.

- h. Once every month, starting from the completion of mobilization as defined in Section 01505, Mobilization, the CONTRACTOR shall provide the OWNER with a copy of the then up-to-date set of marked-up Contract As-Built Drawings in accordance with the provisions under and Section 01320, Project Schedule.
 - i. At the end of the work, prior to Project Closeout, the CONTRACTOR shall provide the OWNER with the Contract As-Built Drawings, showing all "as-built" conditions.
 - j. See also Section 01800, Operational Completion and Project Closeout.
- I. Operation and Maintenance (O&M) Manuals:
 - 1. The CONTRACTOR shall furnish three (3) hard-copies and one (1) electronic copy (PDF format) of a complete instruction manual for installation, operation, maintenance, and lubrication requirements for each component of mechanical and electrical equipment or system.
 - 2. All equipment manufacturers shall be made aware of these requirements and all associated costs shall be included in the costs for furnishing the equipment or system.
 - 3. O&M Submittal Review Checklist:
 - a. The CONTRACTOR shall include a completed O&M Manual Submittal Review Checklist (copy included at the end of this Section) with each O&M manual submittal.
 - b. The checklist shall indicate that the O&M manual as submitted complies in all respects to the contract requirements.
 - c. Any O&M manual submitted without a completed checklist will be rejected.
 - 4. The manuals shall be furnished to the ENGINEER upon the delivery of the respective equipment.
 - 5. No payment will be made for equipment or materials or equipment installation before the respective O&M manuals have been approved by the ENGINEER.
 - 6. Each O&M manual shall be complete in all respects for all equipment, controls, accessories, and associated appurtenances.
 - a. All information on pre-printed documents (text, drawings, figures, tables, etc.) that does not apply to the deliverables on this project shall be crossed out. This must be done in a clear, unambiguous manner, so that persons using this material can easily distinguish between applicable and non-applicable information.
 - 7. Each O&M manual shall include, but not be limited to, the following:
 - a. Equipment Summary Form
 - 1) OWNER requires that a Maintenance Summary Form, shown in O&M Manual Submittal Review Checklist, be filled out for each type of equipment on a project and that they be included in every O&M manual. OWNER requires that this specific form be used, and that it be placed at the front of each equipment item's O&M manual or immediately behind the item's binder tab, when multiple items are included in a binder. O&M manuals submitted without this form, or not filled out as specified may be rejected. Manufacturer's standard forms, or any other forms, will be considered on a case-by-case basis provided the form includes all of the same information that is included on Maintenance Summary Form. Contractor shall obtain approval for an alternate format prior to submission of their submittal. An electronic version of this form, in Microsoft Word format, is available from OWNER to allow required fields to be expanded or compressed as needed to accurately record the information.
 - b. Diagrams and illustrations, including pump curves indicating operating points.

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- c. Detailed description of the function of each principal component of the system.
 - d. Performance and nameplate data.
 - e. Installation instructions.
 - f. Starting procedure
 - g. Proper adjustment procedure.
 - h. Test procedures.
 - i. Operating procedure.
 - j. Shutdown instructions.
 - k. Emergency operating instructions and troubleshooting guide.
 - l. Safety instructions.
 - m. Maintenance and overhaul instructions which shall include detailed assembly drawings with part numbers, parts list, instructions for ordering spare parts, and complete preventive maintenance instructions required to ensure satisfactory performance and longevity of the equipment.
 - n. Lubrication instructions which shall list points to be greased or oiled, shall recommend type, grade, and temperature range of lubricants, and shall recommend frequency of lubrication.
 - o. List of electrical relay settings and control and alarm contact settings.
 - p. Electrical interconnection wiring diagram for equipment furnished, including all control and lighting systems.
 - q. Recommendations for spare parts and special tools.
8. Hard-Copy O&M Manuals:
- a. Each copy of the manual shall be assembled in one or more hard-back type three-ring binders, each with title page, typed table of contents, and heavy section dividers with numbered plastic index tabs.
 - b. Cover label and title page shall be clearly labeled to designate the project title, project number, Specification Section where the item is specified, system or equipment for which it is intended with reference to the facility, equipment number, and equipment manufacturer name.
 - c. Typed table of contents for the entire set, identified by volume number, shall appear in each binder.
 - d. Each manual shall be divided into sections paralleling the equipment specifications.
 - e. All data shall be hole-punched for binding and composition and printing shall be arranged so that punching does not obliterate any data.
 - f. Pages larger than 8-1/2" x 11" shall be folded, showing title block or optionally included in binder pockets.
 - g. Where more than one binder is required, they shall be labeled "Vol. 1", "Vol. 2", and so on.
 - h. Submit manual organization and format to the ENGINEER for approval prior to manual preparation.
9. Electronic O&M Manuals:
- a. In addition to the designated number of hard-copies for each required Manufacturer's O&M manual, provide an electronic copy, each on its own separate USB flash drive.
 - b. The USB flash drive shall contain one full version of the O&M manual in Adobe's Portable Document File (PDF) format.
 - 1) Text of O&M manual shall be provided in searchable PDF format, making proper use of PDF for headings and heading levels, paragraphs, tables, and lists. The submitted O&M manual shall be a collected, organized, and indexed with a set of bookmarked PDF documents comprising each O&M document that corresponds to a hardcopy binder.

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- c. In addition, the USB flash drive shall contain the separate text and drawing files used to create the PDF O&M manual.
 - d. An index shall be provided on the USB flash drive as a separate text file with the name "index" and shall include the file name and detailed description of each individual file included on the USB flash drive.
 - e. The USB flash drive exterior shall be labeled with the submittal number.
 - f. In addition to being included in PDF O&M manuals, Drawings shall also be provided separately in AutoCAD format.
 - 1) All O&M manual drawings of final approved equipment, including electrical, instrumentation and control system drawings, shall be provided in latest version of AutoCAD.
10. Manuals shall be transmitted to the ENGINEER upon delivery of the equipment and all equipment shall be serviced in accordance with the manufacturer's recommendations prior to operation. A service record shall be maintained on each item of equipment and shall be delivered to the ENGINEER prior to final acceptance of the project.
- J. Manufacturers' certificates and proper installation:
- 1. The CONTRACTOR shall submit manufacturers' certificates of proper installation for items of equipment as specified under Section 01750, Testing, Training and Startup.
- K. Samples and test specimens:
- 1. Where required in the Specifications, and as determined necessary by the ENGINEER, test specimens or samples of materials, appliances, and fittings to be used or offered for use in connection with the work shall be submitted to the ENGINEER at the CONTRACTOR's expense, with information as to their sources, with all cartage charges prepaid, and in such quantities and sizes as may be required for proper examination and tests to establish the quality or equality thereof, as applicable.
 - 2. All samples and test specimens shall be submitted in ample time to enable the ENGINEER to make any tests or examinations necessary, without delay to the work. The CONTRACTOR will be held responsible for any loss of time due to their neglect or failure to deliver the required samples to the ENGINEER, as specified.
 - 3. The CONTRACTOR shall submit additional samples as required by the ENGINEER to ensure equality with the original approved sample and/or for determination of Specification compliance.
 - 4. Laboratory tests and examinations that the OWNER elects to make in its own laboratory will be made at no cost to the CONTRACTOR, except that, if a sample of any material or equipment proposed for use by the CONTRACTOR fails to meet the Specifications, the cost of testing subsequent samples shall be borne by the CONTRACTOR.
 - 5. All tests required by the Specifications to be performed by an independent laboratory shall be made by a laboratory approved by the ENGINEER. Certified test results of all specified tests shall be submitted in duplicate to the ENGINEER. The samples furnished and the cost for the laboratory services shall be at the expense of the CONTRACTOR and included in the prices bid for the associated work.
 - 6. Approved sample items (fixtures, hardware, etc.) may be incorporated into the work upon approval, and when no longer needed by the ENGINEER for reference.
- L. Material and equipment colors:
- 1. The ENGINEER will provide a schedule of selected colors within 30 working days after approval of materials and equipment, and after receiving samples of the manufacturers' standard colors for those items requiring OWNER's selection.
- M. Certificates of Compliance:

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1. A Certificate of Compliance shall be furnished for materials specified to a recognized standard or code prior to the use of any such materials in the work.
2. The ENGINEER may permit the use of certain materials or assemblies prior to sampling and testing if accompanied by a Certificate of Compliance.
3. The certificate shall be signed by the manufacturer of the material or the manufacturer of assembled materials and shall state that the materials involved comply in all respects with the requirements of the Specifications.
4. A Certificate of Compliance shall be furnished with each lot of material delivered to the work and the lot so certified shall be clearly identified in the certificate.

N. Quality Assurance

1. Source limitations: To the greatest extent possible for each unit of work, the CONTRACTOR shall provide products, materials, or equipment of a singular generic kind from a single source.
2. Compatibility of options:
 - a. Where more than one choice is available as options for CONTRACTOR's selection of a product, material, or equipment, the CONTRACTOR shall select an option which is compatible with other products, materials, or equipment already selected.
 - b. Compatibility is a basic general requirement of product/material selections.

O. Review by ENGINEER

1. After review by the ENGINEER of each of the CONTRACTOR's submissions, the material will be returned to the CONTRACTOR with actions defined as follows:
 - a. NO EXCEPTIONS TAKEN: Accepted subject to its compatibility with further submittals and additional partial submittals for portions of the work not covered in this submittal. Does not constitute approval or deletion of specified or required items not shown in the partial submittal.
 - b. MAKE CORRECTIONS NOTED: Same as 1.a., except that minor corrections as noted shall be made by the CONTRACTOR.
 - c. REVISE AND RESUBMIT: Rejected because of major inconsistencies or errors which shall be resolved or corrected by the CONTRACTOR prior to subsequent review by the ENGINEER.
 - d. REJECTED - RESUBMIT: Submitted material does not conform to Plans and Specifications in major respect, e.g., wrong item, wrong size, model, capacity, or material.
2. Items 1 and 2 above (no resubmittal required) are considered "Favorable Review." Items 3 and 4 above (correction and resubmittal required) are considered "unfavorable review."
 - a. ENGINEER's "Favorable Review" of submittals shall be obtained prior to the fabrication, delivery and construction of items requiring submittal review.
 - b. "Favorable Review" of submittals does not constitute a Change Order to the Contract requirements.
 - c. "Favorable Review" of all submittals by ENGINEER shall apply in general design only and shall in no way relieve the Contractor from responsibility for errors or omissions contained therein.
 - d. "Favorable Review" by the ENGINEER shall not relieve the Contractor of its obligation to meet safety requirements and all other requirements of laws, nor constitute a Contract Change Order.
 - e. "Favorable Review" will not constitute acceptance of any responsibility for the accuracy, coordination, and completeness of the submittals or the items of equipment represented on the submittals.

P. Requests for Information

1. Requests for Information about the Contract Documents shall be directed by the CONTRACTOR to the ENGINEER using a Request for Information (RFI) form as agreed to by the OWNER and the ENGINEER. Such requests shall not be transmitted directly to the ENGINEER from a Subcontractor or Supplier.
2. A separate form shall be used for each specific item for which information is required. Requests for Information for more than one item using a single RFI form will be permitted only when the items are so functionally related that expediency indicates review of the group of items as a whole.
3. The ENGINEER will reply to the CONTRACTOR's Request for Information as soon thereafter as practicable.

Q. Construction Photographs

1. Provide photographs showing the preconstruction site, construction progress, and the post-construction site.
2. Format: Photographs shall be digital format
 - a. Digital Format:
 - 1) Digital photos shall be taken with a minimum 8 mega pixel density and provided in JPG format.
 - b. Photos should be properly labeled with the following (at a minimum):
 - 1) Time and date stamped
 - 2) Photograph orientation and location
 - 3) Brief description of photo subject
3. Preconstruction and Post-Construction Photographs
 - a. Take a minimum of 72 photos of the preconstruction site and the property adjacent to the perimeter of the construction site. Particular emphasis shall be directed to utilities and structures both inside and outside the site, or as directed by OWNER.
 - b. Take a minimum of 72 photos of the post-construction site and the property adjacent to the perimeter of the site. Particular emphasis shall be directed to structures both inside and outside the plant boundary, or as indicated by OWNER.
 - c. Preconstruction and post-construction digital photo files shall be submitted on a USB flash drive accompanied by a text file that lists the file name, date photo was taken, and brief description of the photograph and location where the photograph was taken.
 - d. Preconstruction and post-construction digital photo files will be uploaded by Contractor to the project Web Based Document Control Software (PROCORE LLC).
4. Construction Progress Photographs
 - a. Take daily photos, a minimum of 30 per week, showing the process of the construction.
 - 1) Photos should be of enough quality and quantity such that the OWNER can interpret the progress of work and utilize the photographs to physically locate work items depicted.
 - 2) Photos should encompass all areas and scopes of work performed in that week.
 - 3) Daily construction progress digital photo files will be uploaded by Contractor to the project Web Based Document Control Software (PROCORE LLC) on a minimum once weekly basis within five (5) days of the Friday of the week they were taken.
 - b. Submit a minimum of 48 of the construction progress photos monthly showing the progress of construction. Locations shall be selected by the contractor to best depict the progress of the work, or as indicated by OWNER.

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- 1) Monthly digital photo files shall be submitted on a USB flash drive accompanied by a text file that lists the file name, date photo was taken, and brief description of the photograph and location where the photograph was taken.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

+ + END OF SECTION + +

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O&M MANUAL REVIEW CHECKLIST

SUBMITTAL NO. _____ SPEC. SECTION. _____ SUBJECT _____ EQUIP. ITEM _____ _____	DATED _____ REVIEW DATE _____ REVIEWER _____ SUPPLIER _____ MANUFACTURER _____
--	---

ACCEPTABLE _____ UNACCEPTABLE _____	PROJECT TITLE: _____ PROJECT NO. 17-083
--	--

DISPOSITION	ACCEPTABLE?			COMMENTS
	YES	NO	NA	
HARD-COPY O&M MANUALS				
▪ Minimum three (3) copies	_____	_____	_____	_____
▪ Three-ring binder with hard-back cover.....	_____	_____	_____	_____
▪ Cover Label and Title Page (Cover/Title Page):				
Project title and Project number	_____	_____	_____	_____
Specification section	_____	_____	_____	_____
System/Equipment names.....	_____	_____	_____	_____
Facility	_____	_____	_____	_____
Equipment number	_____	_____	_____	_____
▪ Typed table of contents.....	_____	_____	_____	_____
▪ Heavy section dividers w/numbered plastic index tabs .	_____	_____	_____	_____
▪ Sections parallel equipment specifications	_____	_____	_____	_____
▪ Pages punched for 3 ring binder (punching does not obliterate data)	_____	_____	_____	_____
▪ Info larger than 8-1/2"x11" folded showing title block, or included in binder pockets	_____	_____	_____	_____
▪ Multiple volumes labeled "Vol. 1", "Vol. 2", etc.....	_____	_____	_____	_____
▪ Table of contents for entire set in each binder.....	_____	_____	_____	_____
ELECTRONIC O&M MANUALS				
▪ Minimum one (1) copy on USB Flash Drive	_____	_____	_____	_____
▪ Full version of O&M manual in PDF format	_____	_____	_____	_____
▪ PDF "Bookmarks" to label each section of manual	_____	_____	_____	_____
▪ Separate text and drawing files used to create PDF O&M manual.....	_____	_____	_____	_____

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DISPOSITION	ACCEPTABLE?			COMMENTS
	YES	NO	NA	
▪ Index on flash drive as separate file titled "index"	_____	_____	_____	_____
▪ Flash drive labeled with submittal number	_____	_____	_____	_____
TECHNICAL CONTENT				
▪ Equipment Summary Form (See example of required format, Figure 2-1, 2 pages, end of this Section)	_____	_____	_____	_____
▪ Diagrams and illustrations, including pump curves	_____	_____	_____	_____
▪ Detailed description of function of principal components.....	_____	_____	_____	_____
▪ Performance and nameplate data	_____	_____	_____	_____
▪ Installation instructions.....	_____	_____	_____	_____
▪ Starting procedure	_____	_____	_____	_____
▪ Proper adjustment procedure.....	_____	_____	_____	_____
▪ Test procedures	_____	_____	_____	_____
▪ Operating procedure (Normal operation and all other operating modes).....	_____	_____	_____	_____
▪ Shutdown instructions, including emergency shutdown	_____	_____	_____	_____
▪ Emergency operating instructions & troubleshooting	_____	_____	_____	_____
▪ Safety instructions and precautions	_____	_____	_____	_____
▪ Maintenance procedures and instructions, preventative, reactive and overhaul.....	_____	_____	_____	_____
▪ Troubleshooting and corrective maintenance procedures	_____	_____	_____	_____
▪ Lubrication instructions and information	_____	_____	_____	_____
▪ List of electrical relay settings and control and alarm contact settings	_____	_____	_____	_____
▪ Electrical interconnection wiring diagrams, including control and lighting systems, panel wiring, control (ladder) diagrams, logic diagrams, loop diagrams, and interconnection diagrams	_____	_____	_____	_____
▪ Panel layout and assembly drawings	_____	_____	_____	_____
▪ Mechanical drawings	_____	_____	_____	_____
▪ Printout of all software programs and configuration files	_____	_____	_____	_____
▪ Parts list (with exploded view and associated cross-references)	_____	_____	_____	_____
▪ Recommended spare parts and special tools	_____	_____	_____	_____
▪ Factory and field test procedures and results	_____	_____	_____	_____
▪ Project specific warranty statement	_____	_____	_____	_____

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MAINTENANCE SUMMARY FORM

PROJECT: _____

EQUIPMENT LOCATION: _____

1. EQUIPMENT ITEM _____

2. MANUFACTURER _____

3. EQUIPMENT/TAG NUMBER(S) _____

4. WEIGHT OF INDIVIDUAL COMPONENTS (OVER 100 POUNDS) _____

5. NAMEPLATE DATA (hp, voltage, speed, etc.) _____

6. MANUFACTURER'S LOCAL REPRESENTATIVE _____

a. Name _____ Telephone No. _____

b. Address _____

7. MAINTENANCE REQUIREMENTS

Maintenance Operation Comments	Frequency	Lubricant (If Applicable)
List briefly each maintenance operation required and refer to specific information in manufacturer's standard maintenance manual, if applicable. (Reference to manufacturer's catalog or sales literature is not acceptable.)	List required frequency of each maintenance operation.	Refer by symbol to lubricant required.

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FIGURE 2-1

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8. LUBRICANT LIST

Reference Symbol	Shell	Exxon Mobile	Chevron Texaco	BP Amoco	Or Equal
List symbols used in No. 7 above.	List equivalent lubricants, as distributed by each manufacturer for the specific use recommended.				

9. RECOMMENDED SPARE PARTS FOR OWNER'S INVENTORY.

Part No.	Description	Unit	Quantity	Unit Cost
Note: Identify parts provided by this Contract with two asterisks.				

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FIGURE 2-1

SECTION 01400

QUALITY CONTROL

PART 1 - GENERAL

1.1 OBSERVATION AND SUPERVISION

- A. The ENGINEER or ENGINEER's appointed representative will review the Work and the CONTRACTOR shall provide facilities and access to the Work at all times as required to facilitate this review.
- B. Responsibility:
 - 1. The CONTRACTOR shall be solely responsible to supervise and direct the entire Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to complete the Work in accordance with the Contract Documents.
 - 2. The CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences, quality control, and procedures of construction and safety precautions and programs incidental thereto.
 - 3. The foregoing includes work performed by the CONTRACTOR's Subcontractors.
 - 4. The CONTRACTOR shall be responsible to see that the finished Work complies accurately with the Contract Documents.
 - 5. CONTRACTOR shall be responsible for maintaining a complete hardcopy set of all project documents at the site at all times. Project documents shall include but are not limited to all drawings, specifications, submittals, requests for information (RFI), requests for change (RFC), change orders, and up to date project record drawings.
 - 6. Project documents as described above shall be onsite and available for OWNER or ENGINEER review at all times. Failure to maintain or make project documents available will result in the stoppage of work. Schedule and cost changes resulting from stoppage of work are the responsibility of the CONTRACTOR.
- C. Superintendent:
 - 1. The CONTRACTOR shall designate in writing and submit for ENGINEER's approval a technically qualified, English-speaking superintendent, who shall be onsite and responsible for the work, and who shall not be replaced without written acceptance of the ENGINEER.
 - 2. The superintendent shall be the CONTRACTOR's representative at the job site and shall have authority to act on behalf of the CONTRACTOR.
 - 3. All communications given to the superintendent shall be as binding as if given to the CONTRACTOR.
 - 4. The CONTRACTOR's superintendent shall be present at the site of the Work at all times while work is in progress. Failure to observe this requirement shall be considered as suspension of the Work by the CONTRACTOR until such time as such superintendent is again present at the site.
 - 5. CONTRACTOR's superintendent shall be responsible for maintaining a complete hardcopy set of all project documents.

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1.2 RESPONSIBILITY

- A. The CONTRACTOR is responsible for conducting all testing and inspection specifically required by the Specifications and otherwise necessary to ensure compliance with the Contract Documents.
 - 1. Approval of Testing Laboratories and Geotechnical Consultants:
 - a. All laboratory work under this contract shall be performed by a laboratory approved by the ENGINEER, whether the laboratory is employed by the CONTRACTOR, or is owned and operated by the CONTRACTOR.
 - b. The basis of approval includes the following:
 - 1) Testing laboratories performing work in connection with concrete, steel, and bituminous materials shall comply with ASTM E 329 and ASTM D 3666, respectively.
 - 2) Testing laboratories performing work not in connection with concrete, steel, bituminous materials, soils and non-destructive testing shall comply with ASTM E 548.
- B. The ENGINEER may conduct periodic independent testing and inspection to verify compliance with the Contract Documents.
- C. Retesting:
 - 1. The OWNER reserves the right to back-charge the CONTRACTOR for retesting of deficient or defective work or products upon written notification.
 - 2. Compensation for retesting on behalf of the OWNER will be made through deductions from the Progress Payments.
- D. The CONTRACTOR is responsible for correcting all defective work discovered prior to final acceptance of the Contract, despite the failure of the Inspector(s) to discover it.
- E. The OWNER shall employ a special inspector during construction on the types of work indicated in the Statement of Special Inspections in the drawings.
 - 1. OWNER's REPRESENTATIVE shall provide special inspection as identified with "BY OWNER" in the Statement of Special Inspections.
 - 2. CONTRACTOR shall provide special inspection as identified with "BY CONTRACTOR" in the Statement of Special Inspections.

1.3 TESTS AND INSPECTIONS

- A. The CONTRACTOR shall be responsible for scheduling all inspections and tests required.
 - 1. The ENGINEER shall be given a minimum 48 business hours notice prior to any inspections or tests.
- B. With the exception of the special inspections noted above to be paid for by the OWNER; the CONTRACTOR shall pay for all tests, inspections and special inspections including, but not limited to:
 - 1. Standard inspections and tests necessary to comply with laws, ordinances, rules, regulations and orders of public authorities pursuant to General Conditions.
 - 2. Concrete and CLSM compressive strength tests for trial batch mix designs.
 - 3. Tests of materials, inspections, and certifications required by the Specifications.
 - 4. Testing, adjusting, and balancing of equipment and systems required by the Specifications.
 - 5. One tension and elongation test for each 5 tons of steel or fractional part thereof for each size will be required, unless the steel can be identified by heat or melt numbers

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- and is accompanied by mill analysis and test reports. Commercial stock may be used, subject to approval of the ENGINEER.
6. Any testing performed by the CONTRACTOR for their own quality control.
 7. All compaction testing, moisture testing, field testing of CLSM for backfill placement, geotechnical observations, and all certifications necessary to comply with the specifications.
 8. Retests or re-inspections by the OWNER, if required, and tests or inspections required due to CONTRACTOR error or lack of required identifications of material.
 9. Any and all water used by the CONTRACTOR in any testing.
 10. Special Inspections as identified with "BY CONTRACTOR" in the Statement of Special Inspections in the drawings.
- C. The CONTRACTOR shall be responsible for scheduling all tests and inspections pertaining to soils which includes all items covered by 02300 EARTHWORK. CONTRACTOR shall hire a third party accredited laboratory and geotechnical consultant for approval by OWNER a minimum of 30 days in advance of using the laboratory or geotechnical consultant.
- D. Two copies of the agency or laboratory report of each test or inspection shall be provided to the ENGINEER. All tests of materials shall be made in accordance with the commonly recognized standards of national technical organizations, and such other special methods and tests as are prescribed in the Contract Documents. Hardcopies of soils testing daily reports shall be provided to the ENGINEER before close of business the day tests are completed.
- E. Along with the monthly progress pay application submittal, the CONTRACTOR shall provide to the ENGINEER a typed summary of all tests performed for the current month including test location by station or location, elevation, depth below finished grade, material tested, wet density, moisture content, dry density, maximum density curve used, and percent relative compaction. Lab test results shall also be included in the monthly report with clear description of material tested, intended use on the Project, and a statement of compliance or noncompliance with the Project requirements.
- F. Purchase Orders:
1. One copy of each of the CONTRACTOR's purchase orders for materials forming a portion of the work shall be furnished to the ENGINEER, if requested.
 2. Each such purchase order shall contain a statement that the materials included in the order are subject to inspection by the OWNER.
 3. Materials purchased locally will be inspected at the point of manufacture or supply, and materials supplied from points more than 50 miles from the job site will be inspected upon arrival at the job, except when other inspection requirements are provided for specific materials in other Sections of this Specification.
- G. Samples:
1. The CONTRACTOR shall furnish samples of materials as are required by the ENGINEER, without charge.
 2. No material shall be used until the ENGINEER has had the opportunity to test or examine such materials.
 3. Samples will be secured and tested whenever necessary to determine the quality of the material.
 4. Samples and test specimens prepared at the job site, such as concrete test cylinders, shall be taken or prepared by the ENGINEER in the presence and with the assistance of the CONTRACTOR.

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1.4 AUTHORITY AND DUTIES OF INSPECTOR

- A. Inspectors employed by the OWNER shall be authorized to inspect all work done and materials and equipment furnished to complement the CONTRACTOR furnished independent inspector.
1. Such inspection may extend to all or any part of the work, and to the preparation, fabrication, or manufacture of the materials and equipment to be used.
 2. The Inspector will not alter or waive the provisions of the Contract Documents.
 3. The Inspector will keep the ENGINEER informed as to the progress of the work and the manner in which it is being done.
 4. The Inspector will call the CONTRACTOR's attention to nonconformance with the Contract Documents that the Inspector may have observed.
 5. The Inspector will not be responsible for the adequacy or correctness of the CONTRACTOR's means, methods, techniques, sequences, or procedures for construction.
 6. The Inspector will not approve or accept any portion of the work, issue instructions contrary to the Contract Documents, or act as foreman for the CONTRACTOR.
 7. The Inspector may reject defective materials, equipment, or work when it is not in compliance with the Contract Documents.
 8. The Inspector will not be responsible for:
 - a. The CONTRACTOR's quality control program.
 - b. The CONTRACTOR's safety program.
 - c. Coordinating the work or activities of the CONTRACTOR or their Subcontractor.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

+ + END OF SECTION + +

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SECTION 01420

REFERENCE STANDARDS AND ABBREVIATIONS

PART 1 - GENERAL

1.1 REFERENCE STANDARDS

- A. The standards referred to, except as modified, shall have full force and effect as though printed in this Specification, and shall be the latest edition or revision thereof in effect on the bid opening date, unless a particular edition or issue is indicated. Copies of these standards are not available from the OWNER.
- B. The ENGINEER will furnish, upon request, information as to how copies may be obtained.
- C. Abbreviations and terms, or pronouns in place of them, shall be interpreted as follows:

AAMA:	Architectural Aluminum Manufacturer's Association
AAN:	American Association of Nurserymen
AAR:	Association of American Railroads
AASHTO:	American Association of State Highway and Transportation Officials, Standard Specifications
AATCC:	American Association of Textile Chemists and Colorists
ACI:	American Concrete Institute, Standards
AFBMA:	Anti-Friction Bearing Manufacturer's Association, Inc.
AGA:	American Gas Association
AGC:	Associated General Contractors
AGMA:	American Gear Manufacturer's Association
AHAM:	Association of Home Appliance Manufacturer's
AI:	The Asphalt Institute
AIA:	American Institute of Architects
AISC:	American Institute of Steel Construction, Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings, and the AISC Code of Standard Practice
AISI:	American Iron and Steel Institute
AITC:	American Institute of Timber Construction
AMCA:	Air Moving and Conditioning Association, Standards
ANS:	American Nuclear Society
ANSI:	American National Standards Institute
APA:	American Plywood Association
API:	American Petroleum Institute
APWA:	American Public Works Association, Standard Specifications for Public Works Construction
ASA:	Acoustical Society of America
ASAE:	American Society of Agriculture Engineers
ASCE:	American Society of Civil Engineers
ASHRAE:	American Society of Heating, Refrigeration and Air Conditioning Engineers
ASLE:	American Society of Lubricating Engineers
ASME:	American Society of Mechanical Engineers

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ASQC:	American Society of Quality Control
ASSE:	American Society of Sanitary Engineers
ASTM:	American Society for Testing and Materials, Standards
AWG:	American Wire Gauge
AWPA:	American Wood-Preservers' Association, Standards
AWPI:	American Wood Preservers Institute
AWS:	American Welding Society
AWWA:	American Water Works Association, Standards
BBC:	Basic Building Code, Building Officials and Code Administrators International
BHMA:	Builders Hardware Manufacturer's Association
CAL/OSHA:	California/Occupational Safety and Health Administration, Standards
CBM:	Certified Ballast Manufacturer's
CCR:	California Code of Regulations
CEMA:	Conveyors Equipment Manufacturer's Association
CGA:	Compressed Gas Association
CISPI:	Cast Iron Soil Pipe Institute, Standards
CLPCA:	California Lathing and Plastering Contractors Association
CLFMI:	Chain Link Fence Manufacturer's Institute
CMAA:	Crane Manufacturers' Association of America
CMA:	Concrete Masonry Association
CORDCS:	City of Roseville Design & Construction Standards
CORPCS:	City of Roseville Process Control Standards
CRSI:	Concrete Reinforcing Steel Institute, Standards
CSS:	CalTrans Standard Specifications, State of California, Department of Transportation
DCDMA:	Diamond Core Drill Manufacturer's Association
DOSH:	Division of Occupational Safety and Health, State of California, Department of Industrial Relations
EIA:	Electronic Industries Association
ETL:	Electrical Test Laboratories
FED/OSHA:	Federal Occupational Safety and Health Administration, Standards
FM:	Factory Mutual
ICBO:	International Conference of Building Officials
ICEA:	Insulated Cable Engineers Association
IEEE:	Institute of Electrical and Electronic Engineers
IES:	Illuminating Engineering Society
IME:	Institute of Makers of Explosives
IP:	Institute of Petroleum (London)
IPC:	Institute of Printed Circuits
IPCEA:	Insulated Power Cable Engineers Association
ISA:	Instrument Society of America
ISO:	International Organization of Standardization
ITE:	Institute of Traffic Engineers
MBMA:	Metal Building Manufacturer's Association
MPTA:	Mechanical Power Transmission of Association
MTI:	Marine Testing Institute
MSS:	Manufacturers Standardization Society
NAAM:	National Association of Architectural Metal Manufacturers

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NACE:	National Association of Corrosion Engineers, Standards
NBS:	National Bureau of Standards
NCCLS:	National Committee for Clinical Laboratory Standards
NEC:	National Electric Code
NEMA:	National Electrical Manufacturers' Association, Standards
NFPA:	National Fire Protection Association
NFPA:	National Forest Products Association
NGLI:	National Lubricating Grease Institute
NMA:	National Microfilm Association
NWMA:	National Woodwork Manufacturers Association
OSHA:	Occupational Safety and Health Administration
PCA:	Portland Cement Association
PCI:	Prestressed Concrete Institute
RIS:	Redwood Inspection Service, Standard Specifications
RVIA:	Recreational Vehicle Industry Association
RWMA:	Resistance Welder Manufacturer's Association
SAE:	Society of Automotive Engineers
SAMA:	Scientific Apparatus Makers Association
SDI:	Steel Door Institute
SIS:	Swedish Standards Association
SMA:	Screen Manufacturer's Association
SMACNA:	Sheet Metal and Air Conditioning Contractors National Association
SPR:	Simplified Practice Recommendation
SSBC:	Southern Standard Building Code, Southern Building Code Congress
SSPC:	Steel Structures Painting Council, Specifications
SSPWC:	Standard Specifications for Public Works Construction
TAPPI:	Technical Association of the Pulp and Paper Industry
TFI:	The Fertilizer Institute
UBC:	Uniform Building Code of the International Conference of Building Officials
UPC:	Uniform Plumbing Code
UL:	Underwriters Laboratories
WCLA:	West Coast Lumbermen's Association, Standard Grading and Dressing Rules
WCLIB:	West Coast Lumber Inspection Bureau
WCRSI:	Western Concrete Reinforcing Steel Institute
WIC:	Woodwork Institute of California
WRI:	Wire Reinforcement Institute, Inc.
WWPA:	Western Wood Products Association

1.2 OTHER ABBREVIATIONS

- A. Other common abbreviations that may be found in the Specifications are, but may not be limited to:

acrylonitrile butadiene styrene	ABS	ampere average	A, amp avg
alternating current	a-c, AC	biochemical oxygen demand	BOD
American wire gauge	AWG	brake horsepower	bhp
ante meridiem	am		

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British thermal unit	Btu	inch	in
Centigrade	C	inch-pound	in-lb
chlorinated polyvinyl chloride	CPVC	input/output	I/O
company	Co	inside diameter	ID
cubic inch	cu in, in ³	instrumentation and control	I&C
cubic foot	cu ft, CF, ft ³		
cubic yard	cu yd, CY, yd ³	kilovolt	kV
cubic feet per minute	cfm, ft ³ /min	kilovolt-ampere	kVA
cubic feet per second	cfs, ft ³ /s	kilowatt	kW
		kilowatt-hour	kWhr
decibel	dB		
decibels, A-weighted	dBA	length	L
degree Centigrade (Celsius)	°C, C	length to least radius of gyration	L/r
degree Fahrenheit	°F, F	light emitting diode	LED
diameter	diam, Ø	linear	lin
direct current	d-c, DC	linear foot	lin ft
dollars	\$	liter	l
ductile iron	DI		
each	ea, @	manhole	MH
efficiency	eff	maximum	max
elevation	El., Elev	mean sea level	MSL
ethylene propylene rubber	EPDM	mercury	Hg
exhaust fan	EF	miles per hour	mph
		milli-amp	mA
Fahrenheit	F	milliampere DC	mAdc
feet	ft	milligram	mg
feet per hour	fph, ft/h	milligrams per liter	mg/l
feet per minute	fpm, ft/min	milliliter	ml
feet per second	fps, ft/s	millimeter	mm
fiberglass reinforced plastic	FRP	million gallon	mil
figure	Fig.	million gallons per day	mgd
flange	flg	minimum	min
foot-pound	ft-lb	motor control center	MCC
gallon	gal	net positive suction head available	NPSHA
gallons per hour	gph, gal/hr	net positive suction head required	NPSHR
gallons per minute	gpm, gal/min	number	No., #
gallons per second	gps, gal/s	National Pipe Thread	NPT
gram	g		
ground fault current interrupter	GFCI	Operation and Maintenance	O&M
		ounce	oz
hand/off/automatic heating, ventilating, and air conditioning	HOA HVAC	outside diameter	OD
Hertz	Hz		
hour	hr	parts per million	ppm
horsepower	hp	post meridiem	pm
		plus or minus	+/-, ±
		polytetrafluorethylene	PTFE

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polyvinyl chloride	PVC	stainless steel	SS
pound	lb	standard	std
pounds per square foot	psf, lb/ft ²	standard cubic feet	
pounds per square inch	psi, lb/in ²	per minute	scfm
pounds per square inch		symmetrical	sym.
absolute	psia		
pounds per square inch		total dynamic head	tdh
gage	psig	totally-enclosed, fan-cooled	
Process and Instrumentation			TEFC
Diagrams	P&ID	totally-enclosed, non-ventilated	TENV
random access memory	RAM	twisted shielded	TWSH
reinforced concrete pipe	RCP		
reinforced concrete cylinder		ultraviolet	UV
pipe	RCCP	United States	US, USA
relative humidity	RH		
revolutions per minute	rpm	variable frequency drive	VFD, AFD
		volt	V
second	sec, s	volts alternating current	VAC
specific gravity	sp gr	volts direct current	VDC
square foot	sq ft, SF, ft ²		
square inch	sq in, in ²	water to cement	W/C, wc
square yard	sq yd, SY, yd ²	water column	W.C.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

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SECTION 01500

TEMPORARY CONSTRUCTION FACILITIES AND UTILITIES

PART 1 - GENERAL

1.1 CONTRACTOR'S STAGING AREA AND WORK ACCESS PLAN

- A. The CONTRACTOR shall limit the location of the storage of equipment and materials to the staging area(s) designated on the Drawings and as directed by the ENGINEER.
- B. The CONTRACTOR shall make their own arrangements for additional space that may be required and shall bear all associated costs.
- C. Work Access Plan: The CONTRACTOR shall submit a work access plan showing the planned access route for deliveries of supplies and mobilization of work force for ENGINEER's approval prior to mobilization.
- D. On-Site Project Office:
 - 1. The CONTRACTOR shall provide and maintain an on-site contractor construction office for CONTRACTOR's management staff. Hardcopies of all the Contract Documents, project progress records, submittal(s), RFI(S), RFC(s) record drawings, project schedule, shop drawings, SWPPP documentation, and all other relevant documents shall be stored, organized, and maintained in Contractor's management staff onsite project office. CONTRACTOR's project office and project documents shall be accessible to the OWNER and ENGINEER during normal working hours.
 - 2. The CONTRACTOR shall make their own arrangements for any additional space that may be required to maintain on-site project offices and bear all associated costs.
 - 3. Contractor shall provide an ENGINEER's Field Office as described herein and bear all associated costs.
 - 4. The CONTRACTOR shall make available for use On-Site Project Offices prior to the start of any work at Site, relocate these facilities as necessary to accommodate project phasing, and maintain these in good working order on-site for a minimum of 7 days after final acceptance of the work.
- E. Temporary Facilities Plan:
 - 1. The CONTRACTOR shall submit to the ENGINEER for approval, as part of the mobilization effort, the proposed plan and layout for all temporary offices, sanitary facilities, temporary construction roads, storage buildings, storage yards, temporary water service and distribution, temporary telephone and temporary power service and distribution.
 - 2. The plan shall show all temporary fencing and gates and all proposed access to the work areas.
 - 3. Prior to the removal of existing fence, the CONTRACTOR shall provide temporary security fencing at least equal to the existing chain link and barbed wire fencing to protect the existing facilities and structures.
- F. Access Roads:
 - 1. The CONTRACTOR shall "winterize" and maintain all access roads at all times to provide a driving surface satisfactory for 2-wheel drive low clearance vehicular traffic.
 - 2. The roads shall be gravel surfaced, smooth, and free from humps and depressions.
 - 3. Contractor shall perform dust control on all access roads.

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4. All costs of complying with this requirement shall be included in the GMP.

1.2 STORAGE - GENERAL

- A. The CONTRACTOR shall provide any temporary storage required for the protection of equipment and materials as recommended by manufacturers of such materials.

1.3 STORAGE BUILDINGS

- A. The CONTRACTOR shall erect or provide temporary storage buildings of the various sizes as required for the protection of mechanical and electrical equipment and materials as recommended by manufacturers of such equipment and materials.
- B. The buildings shall be provided with such environmental control systems that meet recommendations of manufacturers of all equipment and materials stored in the buildings.
- C. The buildings shall be of sufficient size and so arranged or partitioned to provide security for their contents and provide ready access for inspection and inventory.
- D. At or near the completion of the work, and as directed by the ENGINEER, the temporary storage buildings shall be dismantled, removed from the site, and remain the property of the CONTRACTOR.
- E. Combustible materials (paints, solvents, fuels, etc.) shall be safely stored and separated in accordance with the manufacturer's requirements and in compliance with hazardous material storage requirements. CONTRACTOR shall be responsible for providing proper storage buildings for combustible materials.

1.4 STORAGE YARDS

- A. The CONTRACTOR shall provide temporary storage yards as required for the storage of materials that are not subject to damage by weather conditions.
- B. Materials such as pipe, reinforcing and structural steel, shall be stored on pallets or racks, off the ground, and stored in a manner to allow ready access for inspection and inventory.
- C. Temporary gravel surfacing of the storage yards shall meet with the approval of the ENGINEER.

1.5 PARKING AREAS

- A. Control vehicular parking to preclude interference with public traffic or parking, access by emergency vehicles, OWNER's operations, or construction operations.

1.6 VEHICULAR TRAFFIC

- A. Comply with Laws and Regulations regarding closing or restricting use of public streets or highways. No public or private road shall be closed, except by written permission of proper authority. Assure the least possible obstruction to traffic and normal commercial pursuits.

- B. Conduct the Work to interfere as little as possible with public travel, whether vehicular or pedestrian.
- C. Whenever it is necessary to cross, close, or obstruct roads, driveways, and walks, whether public or private, provide and maintain suitable and safe bridges, detours, or other temporary expedients for accommodation of public and private travel.

1.7 DELIVERY-STORAGE-HANDLING

A. General:

- 1. The CONTRACTOR shall deliver, handle, and store materials and equipment in accordance with supplier's written recommendations and by methods and means which will prevent damage, deterioration, and loss including theft.
- 2. Delivery schedules shall be controlled to minimize long-term storage at the site and overcrowding of construction spaces.
- 3. In particular, the CONTRACTOR shall provide delivery/ installation coordination to ensure minimum holding or storage for material or equipment recognized to be flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other sources of loss.

B. Transportation and Handling:

- 1. Materials and equipment shall be transported by methods to avoid damage and shall be delivered in dry, undamaged condition in supplier's unopened containers or packaging.
- 2. The CONTRACTOR shall provide equipment and personnel to handle the materials, and equipment by methods that will prevent soiling and damage.
- 3. The CONTRACTOR shall provide additional protection during handling to prevent marring and otherwise damaging packaging, and surrounding surfaces.

C. Storage and Protection:

- 1. Materials and equipment shall be stored in accordance with supplier's written instructions, with seals and labels intact and legible. Exposed metal surfaces of valves, fittings and similar materials shall be coated with grease in accordance with manufacturer's recommendations to prevent corrosion. Sensitive materials and equipment shall be stored in weather-tight enclosures and temperature and humidity ranges shall be maintained within tolerances required by supplier's written instructions.
- 2. For exterior storage of fabricated materials, they shall be placed on sloped support above ground. Materials or equipment subject to deterioration shall be covered with impervious sheet covering; ventilation shall be provided to avoid condensation.
- 3. Loose granular materials shall be stored on solid surfaces in a well-drained area and shall be prevented from mixing with foreign matter.
- 4. Inspection:
 - a. Storage shall be arranged to provide access for inspection.
 - b. The CONTRACTOR shall periodically inspect to assure materials and equipment are undamaged and are maintained under required conditions.
- 5. Storage shall be arranged in a manner to provide access for maintenance of stored items.

1.8 PROJECT SECURITY

- A. The CONTRACTOR shall make adequate provision for the protection of the work area against fire, theft and vandalism, and for the protection of the public and OWNER personnel against exposure to injury, and for the security of any off-site storage areas.
- B. All costs for this protection shall be included within the CONTRACTOR's bid.

1.9 TEMPORARY UTILITIES

- A. The CONTRACTOR shall provide and pay for all necessary temporary telephones, fuel, power, potable water, sanitary, and proper toilet accommodations. CONTRACTOR shall not use OWNER-owned utilities except for potable water. OWNER will work with CONTRACTOR to provide potable water free of charge. The CONTRACTOR, however, shall be required to furnish and lay such pipe and/or provide such other means as may be necessary and/or incidental to the delivery of water at such point or points of use and at such pressure as may be necessary. No additional compensation will be made therefore. Contractor shall not use quick acting valves which might create surges.
- B. The temporary facilities to be provided by the CONTRACTOR as described above shall conform to all requirements in regard to operation, safety, and fire hazards of State and local authorities and of Underwriters.
- C. CONTRACTOR shall return the site and facilities to their original "pre-construction" condition, unless otherwise specified in the Contract Documents, at the completion of the project.

1.10 SOUND CONTROL

- A. The CONTRACTOR shall comply with all local sound control and noise level rules, regulations and ordinances which apply to any work performed pursuant to the contract.
- B. Each internal combustion engine, used for any purpose on the job or related to the job, shall be equipped with a muffler of a type recommended by the manufacturer, so as to produce a maximum noise level of 85 dBA at 5 feet.
- C. No internal combustion engine shall be operated on the project without said muffler.
- D. Special Precautions for Inhabited Areas:
 - 1. In inhabited areas, particularly residential, operations shall be performed in a manner to minimize unnecessary noise generation.
 - 2. In residential areas, special measures shall be taken to suppress noise generated by repair and service activities during the night hours.

1.11 DUST/AIR POLLUTION CONTROL

- A. The CONTRACTOR shall comply with all Federal, State and local regulatory requirements with respect to air pollution prevention.
- B. The CONTRACTOR shall take whatever steps, procedures, or means as are required to prevent dust conditions being caused by operations in connection with the execution of

the Work; and on any road which the CONTRACTOR or any of their Subcontractors are using, excavation or fill areas, demolition operations, or other activities.

- C. Control shall be by sprinkling, use of dust palliatives, modification of operations, or any other means acceptable to agencies having jurisdiction.
- D. Damage to personal property, etc., resulting from the CONTRACTOR's construction operations shall be borne by the CONTRACTOR at no cost to the OWNER.
- E. The CONTRACTOR shall keep the streets and work area clean at all times by means of mechanical sweepers or hand sweeping. Water will be used for dust control only, and not for cleaning streets.
- F. Burning of waste, rubbish, or other debris will not be permitted on or adjacent to site.

1.12 WASTE DISPOSAL

- A. The CONTRACTOR shall dispose of surplus materials, waste products, and debris and shall make necessary arrangements for such disposal. The CONTRACTOR shall obtain written permission from property owner prior to disposing surplus materials, waste products, or debris on private property.
- B. All waste disposal shall be done in accordance with applicable laws and regulations.
- C. Landfill Disposal:
 - 1. If the CONTRACTOR proposes to dispose of construction debris, trench spoils, excavation spoils, etc., at a landfill, the CONTRACTOR shall be responsible to provide and pay for all permits and analyses required by the landfill.
 - 2. If the analyses determine that the material is hazardous, then an equitable adjustment of the Contract for the cost of hazardous waste disposal will be made in accordance with the General Conditions, and the following:
 - a. Time extension or contract costs will not be granted for delays that could have been avoided by the CONTRACTOR redirecting their forces and equipment to perform other work on the contract.
- D. Ditches, washes, or drainageways shall not be filled.
- E. Disposal operations shall not create unsightly or unsanitary nuisances.
- F. The CONTRACTOR shall maintain the disposal site in a condition of good appearance and safety during the construction period.
- G. Prior to final acceptance of the work, the CONTRACTOR shall have completed the leveling and cleanup of the disposal site.

1.13 CLEAN UP

- A. Throughout the period of construction, the CONTRACTOR shall keep the work site free and clean of all rubbish and debris, and shall promptly remove from the site, or from property adjacent to the site of the work, all unused and rejected materials, surplus earth, concrete, plaster, and debris.

- B. Upon completion of the work, and prior to final acceptance, the CONTRACTOR shall remove from the vicinity of the work all plant, surplus material, and equipment belonging to the CONTRACTOR or used under their direction during construction.

1.14 TEMPORARY ENCLOSURES

- A. When sandblasting, spray painting, spraying of insulation, or other activities inconveniencing or dangerous to property or the health of employees, the public or construction workers, are in progress, the area of activity shall be enclosed adequately to contain the dust, over spray, or other hazard.
- B. In the event there are no permanent enclosures of the area, or such enclosures are incomplete or inadequate, the CONTRACTOR shall provide suitable temporary enclosures as required by the ENGINEER to meet field conditions in accordance with the recommendations of the owner-furnished equipment supplier (if applicable) and the CONTRACTOR's equipment supplier requirements.
- C. Said temporary or permanent enclosures shall be adequately ventilated to ensure the safety of the workers.

1.15 DRAINAGE

- A. The CONTRACTOR shall take all necessary actions as required to meet discharge requirements of the State of California and other pertinent local ordinances and regulations pertaining to dewatering and/or site drainage discharged into storm drains and creeks. This may include, but may not be limited to, the use of retention basins and silt basins to settle most of the solids prior to discharge.
- B. In excavation, fill, and grading operations, care shall be taken to disturb the pre-existing drainage pattern as little as possible.
- C. Particular care shall be taken not to direct drainage water onto private property or into streets or drainageways inadequate for the increased flow.
- D. Drainage means shall be provided to protect the work.

1.16 TEMPORARY LIGHTING

- A. The CONTRACTOR shall provide temporary lighting in all work areas sufficient to maintain a lighting level during working hours not less than the lighting level required by OSHA standards.

1.17 CONSTRUCTION FACILITIES

- A. Construction hoists, elevators, scaffolds, stages, shoring, and similar temporary facilities shall be of ample size and capacity to adequately support and move the loads to which they will be subjected. Railings, enclosures, safety devices, and controls required by law or for adequate protection of life and property shall be provided.
- B. Temporary supports shall be designed with an adequate safety factor to assure adequate load bearing capability. Whenever required by safety regulations, the CONTRACTOR shall submit design calculations for staging and shoring prior to application of loads.

1.18 REMOVAL OF TEMPORARY FACILITIES AND UTILITIES

- A. At such time or times as any temporary construction facilities and utilities are no longer required for the work, the CONTRACTOR shall notify the ENGINEER of their intent and schedule for removal of the temporary facilities and utilities, and obtain the ENGINEER's approval before removing the same.
 - 1. Unless otherwise approved by OWNER, CONTRACTOR'S office and ENGINEER'S field offices shall remain on the project site a minimum of 7 days after OWNER's final acceptance of the work.
- B. As approved, the CONTRACTOR shall remove the temporary facilities and utilities from the site as CONTRACTOR's property and leave the site in such condition as specified, as directed by the ENGINEER, and/or as shown on the Drawings.
- C. In unfinished areas, such as planted medians, the condition of the site shall be left in a condition that will restore original drainage, evenly graded, seeded or planted as necessary, and left with an appearance equal to, or better than original.

PART 2 - PRODUCTS (NOT USED)

2.1 ENGINEER'S FIELD OFFICES

- A. Furnish and maintain equipment specified for exclusive use of OWNER and its representatives.
- B. Ownership of equipment furnished under this article will remain, unless otherwise specified, that of CONTRACTOR.
- C. Equipment furnished shall be new or like new in appearance and function.
- D. Minimum Features:
 - 1. Integrated sanitary facilities including toilet and wash basin with hot and cold running water.
 - 2. 110-volt lighting and wall plugs.
 - 3. Fluorescent ceiling lights.
 - 4. Electric heating and self-contained air conditioning unit properly sized for Project locale and conditions. Provide ample electric power to operate installed systems.
 - 5. Railed stairways and landings at entrances.
 - 6. Sign on entrance door reading "Water Works Engineers", letter height 4 inches minimum.
 - 7. Exterior Door(s):
 - a. Number: Two.
 - b. Type: Solid core.
 - c. Lock(s): Cylindrical; keyed alike.
 - 8. Number of Windows: Four.
 - 9. Minimum Interior Height: 8 feet
- E. Floor Space: Minimum 425 square feet.
- F. Rooms:
 - 1. Two, with minimum private office floor space of 80 square feet.
 - 2. One restroom.

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3. Remainder of space configured for open meeting or storage space.

G. Security guard screens on all windows.

H. Provide and Maintain the Following in The Quantity Shown:

Office Equipment-General:

1. Bottled Water Service: One.
2. Paper Cup Dispenser with Cups: One .
3. Paper Towel Dispenser with Towels: One.
4. Desk: Two , steel, 30 inches by 60 inches.
5. Swivel desk Chair: Two .
6. Folding Table: Two, 36 inches by 72 inches.
7. Steel Folding Chairs: Eight.
8. Four Drawer Steel File with Lock and Key: Two , legal width.
9. Drawing Rack with Drawing Hangers: Two.
10. Bookcase: Two , 36 inches wide by 48 inches high.
11. Wastepaper Basket: Two .
12. Clothes Rack: One.
13. First-Aid Kit: One.
14. Carbon Dioxide (10-Pound) Fire Extinguisher: One.

2.2 PROJECT SIGN

- A. Provide and maintain two, 8-foot wide by 4-foot high signs constructed of ¾-inch exterior high density overlaid plywood. Sign shall bear name of Project, OWNER, CONTRACTOR, ENGINEER, and other participating agencies. Lettering shall be blue applied on a white background by an experienced sign painter. Paint shall be exterior type enamel. Information to be included will be provided by OWNER. Signs to be located as directed by OWNER. Once sign information is provided by OWNER, CONTRACTOR shall submit proposed sign layout, color, materials, etc. for ENGINEER'S approval prior to mobilization. Signs shall be installed on the project site as directed by OWNER within 7 days of CONTRACTOR starting mobilization.

PART 3 - EXECUTION (NOT USED)

3.1 ENGINEER'S FIELD OFFICE

- A. Make available for ENGINEER'S use prior to the start of any work at Site. ENGINEER'S field office shall remain on the site for a minimum of 7 days after final acceptance of the work.
- B. Locate on common site with CONTRACTOR'S construction offices; level, block, tie down, skirt, provide stairways, and relocate when necessary and approved. Construct on proper foundations, provide proper surface drainage and connections for utility services.
- C. Provide minimum 100 square feet of aggregate base, minimum depth of 4 inches, at each entrance.
- D. Raise grade under field office, as necessary, to an elevation adequate to avoid flooding.
- E. Provide sanitary facilities in compliance with state and local health authorities.

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- F. Provide all necessary hookups, piping, storage tanks, etc. as required to provide fully functioning restroom facilities in ENGINEER's field office.
- G. Exterior Door Keys: Furnish two sets of keys.
- H. CONTRACTOR shall maintain in good repair and appearance including weekly cleaning service and replenishment of field office supplies.

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SECTION 01505

MOBILIZATION

PART 1 - GENERAL

1.1 GENERAL

- A. Mobilization shall include the obtaining of all bonds, insurance, and licenses; moving onto the site of all plant and equipment; furnishing and erecting plants, temporary buildings, and other construction facilities; all as required for the proper performance and completion of the work.
- B. Mobilization shall include but not be limited to the following principal items:
 - 1. Moving on to the site of all CONTRACTOR's plant and equipment.
 - 2. Installing temporary construction power, wiring, and lighting facilities.
 - 3. Establishing fire protection system.
 - 4. Developing construction water supply.
 - 5. Furnishing the work access plan as specified in Section 01500, Temporary Construction Facilities and Utilities.
 - 6. Providing all on-site CONTRACTOR communication facilities, including telephones, and radio pagers and any radio communications facilities required for the CONTRACTOR to coordinate their forces.
 - 7. Providing on-site sanitary facilities and potable water facilities as specified in Section 01500, Temporary Construction Facilities and Utilities.
 - 8. Arranging for and erection of the CONTRACTOR's work and storage yard, including site security.
 - 9. Posting all EPA and OSHA required notices and establishment of safety programs.
 - 10. Post all required labor and EEOE notices.
 - 11. Have the CONTRACTOR's superintendent at the job site full time.
 - 12. Submittal and OWNER acceptance of the Construction Schedule.
 - 13. Establishing site security, lighting, fencing, and signing.
 - 14. Obtaining all bonds, insurance and licenses.
 - 15. Providing an organization chart of the project and for the CONTRACTOR's firm. The project chart shall include the name, title and responsibilities of each position which is involved in the work.
 - 16. Other mobilization items approved by the ENGINEER required to support the complete work (e.g., Health and Safety Plans for Hazardous Waste).

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

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SECTION 01610

GENERAL PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 SCOPE

- A. All products furnished and installed under this contract shall conform to the general stipulations set forth in this Section except as otherwise specified in other Sections.

1.2 COORDINATION

- A. The CONTRACTOR shall coordinate all details of the products and equipment with other related parts of the work, including verification that all structures, piping, wiring, and equipment components are compatible. The CONTRACTOR shall be responsible for all structural and other alterations in the work required to accommodate products or equipment differing in dimensions or other characteristics from that contemplated in the Contract Drawings or Specifications.

1.3 DESIGN REQUIREMENTS

- A. Where CONTRACTOR design is specified, design and installation of systems, equipment, and components, including supports and anchorage, shall be in accordance with provisions of 2016 edition of the California Building Code (CBC).
 1. Basic Wind Speed: 115 mph, Exposure C.
 2. Seismic:
 - a. S_s (maximum short-term spectral response acceleration) = 0.538
 - b. S_1 (maximum 1-second spectral response acceleration) = 0.260
 - c. S_{DS} (design short-term spectral response acceleration) = 0.491
 - d. S_{D1} (design 1-second spectral response acceleration) = 0.326
 - e. I_e (Seismic Importance Factor) = 1.5
 - f. Risk Category = IV
 - g. Seismic Use Group = III
 3. Maximum Rain Intensity: 3-inches/hour
- B. Proof of Compliance:
 1. Structural integrity and anchorage shall be certified by an approved calculation that demonstrates the adequacy of the anchorage system for seismic forces. This calculation may be based on principles of structural analysis and engineering mechanics, or based on similarity to approved shake-table tests.
 2. The CONTRACTOR shall submit for review and approval test data or calculations certified by a Civil or Structural Engineer registered in the State of California to show compliance with the above requirements.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Altitude: Provide materials and equipment suitable for installation and operation under rated conditions at 100 feet above sea level.

- B. Provide equipment and devices installed outdoors or in unheated enclosures capable of continuous operation within an ambient temperature range of 15 degrees F to 120 degrees F.

1.5 WORKMANSHIP AND MATERIALS

- A. The CONTRACTOR shall guarantee all equipment against faulty or inadequate design, improper assembly or erection, defective workmanship or materials, and leakage, breakage, or other failure. Materials shall be suitable for service conditions.
- B. All equipment shall be designed, fabricated, and assembled in accordance with recognized and acceptable engineering and shop practice. Individual parts shall be manufactured to standard sizes and gages so that repair parts, furnished at any time, can be installed in the field. Like parts of duplicate units shall be interchangeable. Equipment shall not have been in service at any time prior to delivery, except as required by tests.
- C. Except where otherwise specified, structural and miscellaneous fabricated steel used in equipment shall conform to AISC standards. All structural members shall be designed for shock or vibratory loads. Unless otherwise specified, all steel which will be submerged, all or in part, during normal operation of the equipment shall be at least 1/4 inch thick.
- D. Except where otherwise specified, all metal which will be exposed to weather, submerged or otherwise exposed to moisture shall be either non-ferrous or stainless steel, as the application may require.

1.6 LUBRICATION

- A. Equipment shall be adequately lubricated by systems which require attention no more frequently than weekly during continuous operation. Lubrication systems shall not require attention during startup or shutdown and shall not waste lubricants.
- B. Lubricants of the type recommended by the equipment manufacturer shall be provided in sufficient quantity to fill all lubricant reservoirs and to replace all consumption during testing, startup, and operation prior to acceptance of equipment by OWNER. Unless otherwise specified or permitted, the use of synthetic lubricants will not be acceptable.
- C. Lubrication facilities shall be convenient and accessible. Oil drains and fill openings shall be easily accessible from the normal operating area or platform. Drains shall allow for convenient collection of waste oil in containers from the normal operating area or platform without removing the unit from its normal installed position.

1.7 ELECTRIC MOTORS

- A. Unless otherwise specified, motors furnished with equipment shall meet the following requirements:
 - 1. Designed and applied in accordance with NEMA, ANSI, IEEE, AFBMA, and NEC for the duty service imposed by the driven equipment, such as frequent starting, intermittent overload, high inertia, mounting configuration, or service environment.
 - 2. Premium efficiency rated.
 - 3. Rated for continuous duty at 40-degrees Celsius ambient, unless the application is well recognized for intermittent duty service as a standard industry practice.
 - 4. Insulated with Class F insulation and designed for a service factor of 1.15, or greater.

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5. Three phase motors used in conjunction with variable speed drives shall have Class F insulation with a Class B temperature rise at rated nameplate horsepower, and 1.15 service factor.
6. When operating at service factor load, maximum observable temperature rise of insulation and motor parts, as determined by resistance or thermometer methods, shall not exceed the NEMA allowable limits for the type of motor, the type of enclosure, and the particular application with regard to continuous or intermittent duty.
7. To ensure long motor life, nameplate horsepower, regardless of service factor, shall be at least 115 percent of the maximum load imposed by the driven equipment.
8. Designed for full voltage starting.
9. Designed to operate from an electrical system that may have a maximum of 5 percent voltage distortion per IEEE Standard 519.
10. Derated, if required, for the altitude at which the equipment is installed.
11. Clamp-type grounding terminal shall be inside motor conduit box.
12. External conduit boxes shall be oversized at least one size larger than NEMA standard.
13. Totally enclosed motors shall have a continuous moisture drain which also excludes insects.
14. Bearings shall be either oil or grease lubricated.
15. Manufacturer's standard motor may be supplied on integrally constructed, packaged assemblies such as appliances, tools, unit heaters, and similar equipment specified by model number, in which case a redesign of the unit would be required to furnish motors of other than the manufacturer's standard design. However, in all cases, totally enclosed motors are preferred and shall be furnished if offered by the manufacturer as a standard option.
16. Totally enclosed motors shall be furnished on:
 - a. Equipment for installation below grade.
 - b. Equipment operating in wet or dust-laden locations.
17. Drip-proof motors, or totally enclosed motors at the supplier's option, shall be furnished on equipment in indoor, above-grade, clean, and dry locations.
18. Explosion-proof or submersible motors shall be furnished as required by applicable codes, as specified in other Sections, or at the supplier's option.
19. Motors shall be rated and constructed as follows:
 - a. Below 1/2 hp:
 - 1) 115 volts, 60 Hz, single phase.
 - 2) Built-in manual-reset thermal protector, or integrally mounted stainless steel enclosed manual motor starter.
 - b. 1/2 hp and above:
 - 1) 460 volts, 60 Hz, 3 phase.
 - 2) Where specified or required by the drawings, motors used on 240 volt systems shall be 230 volts, 60 Hz, 3 phase.

1.8 DRIVE UNITS

- A. The nominal input horsepower rating of each gear or speed reducer shall be at least equal to the nameplate horsepower of the drive motor. Drive units shall be designed for 24 hours continuous service.
- B. Unless otherwise specified, the use of gearmotors will not be acceptable.
- C. Gear reducers:

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1. Each gear reducer shall be a totally enclosed unit with oil or grease lubricated antifriction, rolling element bearings throughout.
 2. Helical, spiral bevel, combination bevel-helical, and worm gear reducers shall have a service factor of at least 1.50 based on the nameplate horsepower of the drive motor. Shaft-mounted and flange-mounted gear reducers shall be rated AGMA Class II. Helical gear reducers shall have a gear strength rating to catalog rating of 1.5. Each gear reducer shall bear an AGMA nameplate.
 3. The thermal horsepower rating of each unit shall equal or exceed the nameplate horsepower of the drive motor. During continuous operation, the maximum sump oil temperature shall not rise more than 100°F above the ambient air temperature in the vicinity of the unit and shall not exceed 200°F.
 4. Bearings:
 - a. Each grease lubricated bearing shall be installed in a bearing housing designed to facilitate periodic regreasing of the bearing by means of a manually operated grease gun.
 - b. Each bearing housing shall be designed to evenly distribute new grease, to properly dispose of old grease, and to prevent overgreasing of the bearing.
 - c. The use of permanently sealed, grease lubricated bearings will not be acceptable.
 - d. An internal or external oil pump and appurtenances shall be provided if required to properly lubricate oil lubricated bearings.
 - e. A dipstick or sight glass arranged to permit visual inspection of lubricant level shall be provided on each unit.
 5. Gear reducers that require the removal of parts or periodic disassembly of the unit for cleaning and manual regreasing of bearings will not be acceptable.
 6. Certification shall be furnished by the gear reducer manufacturer indicating that the intended application of each unit has been reviewed in detail by the manufacturer and that the unit provided is fully compatible with the conditions of installation and service.
- D. V-belt drives:
1. Each V-belt drive shall include a sliding base or other suitable tension adjustment. V-belt drives shall have a service factor of at least 1.6 at maximum speed based on the nameplate horsepower of the drive motor.

1.9 SAFETY GUARDS

- A. All belt or chain drives, fan blades, couplings, and other moving or rotating parts shall be covered on all sides by a safety guard.
- B. Safety guards shall be fabricated from 16 USS gauge or heavier galvanized or aluminum-clad sheet steel or 1/2 inch mesh galvanized expanded metal.
- C. Each guard shall be designed for easy installation and removal.
- D. All necessary supports and accessories shall be provided for each guard. Supports and accessories, including bolts, shall be galvanized.
- E. All safety guards in outdoor locations shall be designed to prevent the entrance of rain and dripping water.

1.10 ANCHOR BOLTS

- A. Equipment suppliers shall furnish suitable anchor bolts for each item of equipment.

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- B. Anchor bolts, together with templates or setting drawings, shall be delivered sufficiently early to permit setting the anchor bolts when the structural concrete is placed.
- C. Anchor bolts shall comply with Section 05051, Anchors, Inserts and Epoxy Dowels and, unless otherwise specified, shall have a minimum diameter of 1/2-inch.
- D. Unless otherwise indicated or specified, anchor bolts for items of equipment mounted on baseplates shall be long enough to permit 1-1/2 inches of grout beneath the baseplate and to provide adequate anchorage into structural concrete.

1.11 EQUIPMENT BASES

- A. Unless otherwise indicated or specified, all equipment shall be installed on concrete bases at least 6 inches high.
- B. Cast iron or welded steel baseplates shall be provided for pumps, compressors, and other equipment.
- C. Each unit and its drive assembly shall be supported on a single baseplate of neat design.
- D. Baseplates shall have pads for anchoring all components and adequate grout holes.
- E. Baseplates for pumps shall have a means for collecting leakage and a threaded drain connection.
- F. Baseplates shall be anchored to the concrete base with suitable anchor bolts and the space beneath filled with grout as specified in Section 03600, Grout.

1.12 SPECIAL TOOLS AND ACCESSORIES

- A. Equipment requiring periodic repair and adjustment shall be furnished complete with all special tools, instruments, and accessories required for proper maintenance. Equipment requiring special devices for lifting or handling shall be furnished complete with those devices.

1.13 SHOP PAINTING

- A. Surface Protection:
 - 1. All steel and iron surfaces shall be protected by suitable paint or coatings applied in the shop.
 - 2. Surfaces that will be inaccessible after assembly shall be protected for the life of the equipment.
 - 3. Exposed surfaces shall be finished smooth, thoroughly cleaned, and filled as necessary to provide a smooth uniform base for painting.
 - 4. Electric motors, speed reducers, starters, and other self-contained or enclosed components shall be shop primed or finished with a high-grade oil-resistant enamel suitable for coating in the field with an alkyd enamel.
 - 5. Coatings shall be suitable for the environment where the equipment is installed.
- B. Shop Primer:
 - 1. Surfaces to be painted after installation shall be prepared for painting as recommended by the paint manufacturer for the intended service, and then shop painted with one or more coats of the specified primer.

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2. Unless otherwise specified, the shop primer for steel and iron surfaces shall be:
 - a. Cook "391-N-167 Barrier Coat",
 - b. Koppers "No. 10 Inhibitive Primer",
 - c. Tnemec "37H Chem-Prime HS",
 - d. Valspar "13-R-28 Chromox Primer",
 - e. Or equal.
- C. Machined, polished, and nonferrous surfaces which are not to be painted shall be coated with rust-preventive compound, Houghton "Rust Veto 344", Rust-Oleum "R-9", or equal.

1.14 PREPARATION FOR SHIPMENT

- A. All equipment shall be suitably packaged to facilitate handling and protect against damage during transit and storage. All equipment shall be boxed, crated, or otherwise completely enclosed and protected during shipment, handling, and storage. All equipment shall be protected from exposure to the elements and shall be kept thoroughly dry at all times.
- B. Painted surfaces shall be protected against impact, abrasion, discoloration, and other damage. All painted surfaces which are damaged prior to acceptance of equipment shall be repainted to the satisfaction of ENGINEER.
- C. Grease and lubricating oil shall be applied to all bearings and similar items.
- D. Each item of equipment shall be tagged or marked as identified in the delivery schedule or on the Shop Drawings. Complete packing lists and bills of material shall be included with each shipment.

1.15 STORAGE

- A. Upon delivery, all equipment and material shall immediately be stored and protected until installed in the work.
- B. Pumps, motors, electrical equipment, and all equipment with antifriction or sleeve bearings shall be stored in weathertight structures maintained at a temperature above 60°F. Equipment, controls, and insulation shall be protected against moisture and water damage. All space heaters furnished in equipment shall be connected and operated continuously.
- C. Equipment and materials shall not show any pitting, rust, decay, or other deleterious effects of storage when installed in the work.

1.16 INSTALLATION AND OPERATION

- A. Equipment shall not be installed or operated except by, or with the guidance of, qualified personnel having the knowledge and experience necessary for proper results. When so specified, or when employees of the CONTRACTOR or their subcontractors are not qualified, such personnel shall be field representatives of the manufacturer of the equipment or materials being installed.
- B. Qualified field representatives shall be provided by the equipment manufacturers as required by Section 01750, Testing, Training and Startup.

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- C. All equipment installed under this Contract, including that furnished by OWNER shall be placed into successful operation according to the written instructions of the manufacturer or the instructions of the manufacturer's field representative. All required adjustments, tests, operation checks, and other startup activity shall be provided.
- D. Acceptance of work in connection with the installation of equipment furnished by others will be subject to approval of the field representative. The CONTRACTOR shall be responsible for planning, supervising, and executing the installation of work, and the approval or acceptance of ENGINEER or the field representative will not relieve the CONTRACTOR of responsibility for defective work.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

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SECTION 01700

INITIAL SUPPLY OF TREATMENT CHEMICALS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Provide treatment chemicals as indicated herein.

1.2 QUALITY ASSURANCE

- A. Chemicals shall meet standards specified in this Section.

1.3 SUBMITTALS

- A. Product Data:
1. Material Safety Data Sheet (MSDS).
 2. Manufacturer's delivery and unloading information including available volumes for delivery and packaging information.
 3. Chemical supplier's certification that the chemical meets applicable standards.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Chemicals shall be delivered, stored, and handled in accordance with the Manufacturer's supplied MSDS and applicable sections of the 2003 International Fire Code.
- B. Chemicals shall be delivered to the site by manufacturer's representative with proper identification and manufacturer's name clearly visible.
- C. Chemicals shall be stored indoors, protected from damage, extreme temperature variation, and contamination.

PART 2 - PRODUCTS

2.1 TREATMENT CHEMICALS

- A. Provide the following:

Chemical Name and Formula	Form	Strength	Chemical Volume	Location	Standard
Sodium Hypochlorite	Liquid	12.5%	500 gal	Booster Pump Station	AWWA B300

PART 3 - EXECUTION (NOT USED)

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SECTION 01750

TESTING, TRAINING AND STARTUP

PART 1 - GENERAL

1.1 GENERAL

- A. Scope:
 - 1. This Section covers general equipment and system testing and startup requirements, services of the manufacturer's representatives and special coordinating services required of the CONTRACTOR that shall apply during construction and training of the OWNER's personnel for facilities operation.
 - 2. Specific testing and tracking procedures and requirements found in the Technical Specifications shall also apply.
- B. The CONTRACTOR shall inform all Subcontractors and manufacturers of the requirements herein and include the required services in their costs for the work specified in these Contract Documents. Where a minimum amount of time is stated in the Technical Specifications for manufacturers' services, any additional time required to perform the specified services shall be provided at no additional cost to the OWNER.
- C. Scheduling:
 - 1. Equipment testing and plant startup are requisite to satisfactory completion of the Contract and, therefore, shall be completed within the contract time.
 - 2. All equipment testing and plant startup activities shall be realistically allowed for and shown on the CONTRACTOR's Construction Schedule, in accordance with Section 01320, Progress Schedule.
 - 3. All equipment testing and plant startup activities shall be scheduled in conformance with the restrictions specified in Section 01130, Special Project Constraints.
- D. Equipment testing shall be satisfactorily completed prior to commencing plant startup associated with the particular equipment item or equipment package. The equipment shall not be considered ready for testing until the following conditions are satisfied:
 - 1. Manufacturer's certification of equipment installation has been accepted by the ENGINEER.
 - 2. Electrical and/or instrumentation Subcontractor certification of motor control logic has been accepted by the ENGINEER.
 - 3. Related Technical Submittals, O&M Manual and Final Shop Drawings have been accepted by the ENGINEER.
 - 4. Operator training services have been furnished by the CONTRACTOR (operational testing only).
 - 5. Testing procedures have been submitted in writing and accepted by the ENGINEER in accordance with Section 01330, Submittal Procedures. All testing procedures and results shall be submitted in writing.
- E. The requirements of plant startup specified herein shall also apply to the startup of individual treatment plant processes and facilities.
- F. Startup Plan:

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1. Not less than 3 months prior to initial equipment or system startup, the CONTRACTOR shall submit to the ENGINEER for review, a detailed Facilities Startup Plan for the associated items of equipment and/or systems.
2. The Startup Plan shall include:
 - a. A detailed sub-network of the CONTRACTOR's Construction Progress Schedule including the following activities:
 - 1) Manufacturer's Services;
 - 2) Installation Certifications;
 - 3) Operator Training;
 - 4) O&M Manual;
 - 5) Functional Testing;
 - 6) Performance Testing;
 - 7) Operational Testing;
 - 8) All other activities necessary to affect a coordinated and successful Testing, Training and Startup.
 - b. Written testing plan with proposed data logs for each item of equipment to be tested.
 - c. A discussion of any coordination required with the Owners staff and/or any system or equipment outage requirements.
 - d. The Plan shall be updated and/or revised as necessary prior to subsequent Construction Progress Meetings.
 - e. Testing shall not be scheduled earlier than 30 days after approval of the Plan.

1.2 SERVICES DURING CONSTRUCTION

A. General:

1. Manufacturer's Representative:

- a. The CONTRACTOR shall provide the services of competent and experienced technical representatives of the manufacturers of all equipment and systems furnished under the contract, for as many days as may be necessary for assembly, installation, testing assistance and operator training.
- b. Manufacturer's field representatives shall observe, instruct, guide, and direct CONTRACTOR's erection or installation procedures, or perform an installation check, as required.
- c. In each case, the CONTRACTOR shall arrange to have the manufacturer's representative revisit the job site as often as necessary until operator training is complete and testing and startup problems have been resolved to the satisfaction of the ENGINEER.
- d. This requirement applies to manufacturers of all equipment furnished (excluding manually operated valves smaller than 24 inches in size, and any other items of equipment specifically exempted by the ENGINEER in writing), whether or not specifically set forth in the Technical Specifications.
- e. The CONTRACTOR shall maintain a service record on each item of equipment and shall deliver these service records to the ENGINEER prior to acceptance of operational testing.

B. Fulfillment of Specified Minimum Services:

1. The CONTRACTOR shall obtain prior written approval from the ENGINEER for providing manufacturers' services.
2. All requests to the ENGINEER for prior approval shall (1) be in writing, (2) be submitted not less than 10 calendar days prior to the providing of the subject services, (3) state the service to be provided, and (4) state the reason(s) why the timing of the service is appropriate.

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3. Request made to the ENGINEER less than 10 calendar days prior to the manufacturers' services may not receive consideration and response prior to the times the services are provided.
 4. Visits of manufacturers and their representatives to the jobsite or training classroom without prior approval as provided herein may not act to fulfill the specified minimum man-day requirements.
- C. Certificate of Proper Installation:
1. Equipment requiring factory tests shall not be delivered to the jobsite until the CONTRACTOR submits acceptable certified test results to the ENGINEER.
 2. Equipment shall not be considered ready for functional testing until after the following certifications have been submitted and accepted by the ENGINEER.
 - a. Manufacturer Representatives:
 - 1) The CONTRACTOR shall require that each manufacturer's representative furnish to the ENGINEER a written and signed report addressed to the OWNER certifying that the equipment has been properly installed, adjusted, lubricated, is in accurate alignment, is free from any undue stress imposed by connecting piping or anchor bolts, has been operated satisfactorily under full-load conditions and is ready for full-time operation.
 - 2) For pumps, compressors, blowers, engines, motors, and other rotating or reciprocating equipment, the report shall certify that the equipment operates within the manufacturer's allowable limits for vibration.
 - 3) The report shall also certify that all controls, protective devices, instrumentation, and control panels furnished as part of the manufacturer's equipment package are properly installed and calibrated; and that the control logic for equipment startup, shutdown, sequencing, interlocks, and emergency shutdown has been tested and is properly operating.
 - 4) The CONTRACTOR shall also sign said certification.
 - 5) The CONTRACTOR shall submit "Manufacturer's Certification of Proper Installation" on the OWNER form.
 - b. Electrical and Instrumentation Subcontractor:
 - 1) The CONTRACTOR shall require that the electrical and/or instrumentation Subcontractor shall furnish a written and signed report to the ENGINEER certifying that the motor control logic for the equipment item that resides in motor control centers, control panels, control boards, microprocessors, distributed processing units, computers, and the like furnished by the electrical and/or instrumentation Subcontractor has been properly tested and calibrated.
 - 2) The report shall certify that the control logic for equipment startup, shutdown, sequencing, interlocks, and emergency shutdown has been tested and is properly operating.
 - 3) The CONTRACTOR shall also sign said certification.

1.3 STARTUP AND TESTING

- A. General:
1. The CONTRACTOR shall provide the effective coordination of all parties necessary for the successful project startup.
 2. The ENGINEER shall not be responsible to instruct the CONTRACTOR in the startup of the project, however, the ENGINEER will be available prior to and during startup to provide operational and technical support to the CONTRACTOR.

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3. The CONTRACTOR shall furnish all labor, consumables (power, water, chemicals, air, etc.) tools, equipment, instruments, and services required and incidental to completing all functional, performance and operational testing of installed equipment.
 4. The CONTRACTOR shall submit for favorable review the proposed test procedures to the ENGINEER for review at least 30 days prior to testing.
 5. After favorable review of the test procedures, the CONTRACTOR shall give the ENGINEER written notice confirming the date of testing at least five working days before the time the equipment is scheduled to be tested.
 6. All testing shall be witnessed by the ENGINEER to be considered valid.
 7. Test Reports:
 - a. CONTRACTOR shall submit written detailed results of all functional, performance and operational testing.
 - b. Upon successful completion of Operational testing all equipment installation, testing and maintenance records shall be submitted to the ENGINEER.
 - c. Said records shall be bound separately for each piece of equipment or system and shall be collected by type of record.
 8. For factory tests, written test results shall be submitted to the ENGINEER at least 10 days prior to shipment.
- B. Functional testing:
1. All items of mechanical and electrical equipment shall be functionally tested by the CONTRACTOR after installation for proper operation.
 2. A minimum of ten (10) days prior to the start of functional testing, the CONTRACTOR shall submit interconnection diagrams for the equipment and for the alarms, controls and instruments associated with the equipment. This requirement shall not relieve the CONTRACTOR of meeting any requirements in the technical specifications for earlier submittal of the interconnection diagrams.
 3. Minimum Test Requirements
 - a. The functional test of each piece of mechanical equipment shall continue for not less than eight (8) continuous hours without interruption.
 - b. The functional test shall include checking for proper rotation, alignment, speed, flows, pressure, vibration, sound level, etc. Initial equipment and system adjustment and calibrations shall be performed in the presence of and with the assistance of the manufacturer's representative.
 - c. The functional test shall include a demonstration of the proper performance of all alarms, local and remote controls, instrumentation, equipment functions, and all other electrical, mechanical and piping systems.
 - d. All parts shall operate satisfactorily in all respects, under continuous full load, and in accordance with the specified requirements, for the full duration of the eight-hour test period.
 - e. If any part of a unit shows evidence of unsatisfactory or improper operation during the eight-hour test period, correction or repairs shall be made and the full eight-hour test operation, as specified herein, shall be repeated after all parts operate satisfactorily.
- C. Performance testing:
1. Where performance testing is required by the Technical Specifications, the testing shall be supervised by the manufacturer's representative. These services shall continue until such times as the applicable equipment or system has been successfully tested for performance and has been accepted by the ENGINEER for operational testing.
 2. Performance testing shall take place after functional testing is successfully completed in accordance with Article 1.3 B.

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3. Performance testing shall demonstrate that the equipment meets all performance requirements specified.
- D. Startup/operational testing:
1. Upon successful completion of operator training and the functional, performance and leakage testing, the CONTRACTOR shall startup the plant facilities and test the equipment operation and performance by conducting a seven (7) day, continuous operational test of the completed facilities as an operational process unit to demonstrate to the ENGINEER's satisfaction that all equipment and systems required by these specifications will operate in the manner in which they are intended to perform.
 2. The OWNER will provide CONTRACTOR-trained operating personnel for the duration of the operational test. Said operation shall be conducted and under the supervision and direction of the CONTRACTOR and/or manufacturer's representative.
 3. Operational Defects:
 - a. All defects in materials or workmanship which appear during the operational test shall be immediately corrected by the CONTRACTOR.
 - b. In the event of a malfunction or deficiency that results in shutdown or partial operation of a system or process unit or results in performance that is less than that specified, the startup duration shall be repeated for that corresponding system or process unit and any other affected equipment so its proper operation and performance as required by the Contract Documents is demonstrated for a minimum of seven (7) continuous and trouble free days.
 4. If the operational test is interrupted through no fault of the CONTRACTOR, the test may resume at the earliest mutually agreeable time.
 5. No unit process or part thereof shall be placed in service until it has successfully completed operational testing.
 6. During plant startup, the CONTRACTOR shall provide the appropriate construction trades and the services of authorized Manufacturer's representatives for operational testing and as necessary, to correct faulty equipment operation.
 7. After completion of all startup/operational testing, the CONTRACTOR shall repaint, hose, scrub, clean up and otherwise return the work to a "like new" condition, prior to OWNER acceptance.

1.4 TRAINING OF OWNER PERSONNEL

- A. General:
1. Operation and maintenance training of OWNER's personnel shall be provided for mechanical, electrical, instrumentation and control equipment as listed in this Section or elsewhere in the Specifications.
 2. For the purposes of this requirement, operations training is considered to be separate from maintenance training. Instructions are to be tailored to the needs of each group.
 3. These training services shall be conducted by the manufacturer's representative and shall ensure measurable and observable means that OWNER personnel are qualified to perform equipment task requirements, including essential knowledge, skills and abilities.
 4. Training shall be conducted by competent representatives who are certified by the manufacturer to be thoroughly familiar with the subject matter as well as instructional methods.
 5. Training materials shall be submitted to the OWNER (see Paragraph 1.4 C below) for review. Acceptance of training materials is required prior to start of training.
 6. All training shall be completed prior to beginning operational testing.

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7. The OWNER shall have the right to videotape any or all training sessions, or may designate separate sessions or portions thereof for the sole purpose of videotaping.
- B. Training coordinator:
1. The CONTRACTOR shall designate and provide one or more persons to be responsible for coordinating and expediting training duties.
 2. The person or persons so designated shall be present at all training coordination meetings with the OWNER.
- C. Training schedule:
1. The CONTRACTOR's coordinator shall coordinate the training periods with OWNER's personnel and manufacturer's representatives, and shall submit a training schedule and the training materials for each piece of equipment or system for which training is to be provided.
 2. The training schedule shall be submitted not less than 21 calendar days prior to the time that the associated training is to be provided and shall be based on the then current Plan of Operation.
 3. Equipment and/or systems shall be deemed suitable for use in training upon satisfactory completion of functional testing.
 4. All training with regards to a unit process or part thereof shall be completed prior to the start of operational testing.
 5. As a minimum, training shall be provided on the following equipment and systems:
 - a. Booster Pumps
 - b. Electronic Control Valve (Altitude Valve)
 - c. Chemical Feed System
 - d. HVAC Systems
 - e. Electrical Systems
 - f. Instrumentation and Controls
 - g. Automatic Gate Operator
 - h. Irrigation System
 - i. Other systems not identified but where training would be beneficial to OWNER's staff.
 6. The CONTRACTOR shall provide distinct and separate training sessions for both operations and maintenance personnel, meeting the following criteria:
 - a. Maintenance Training:
 - 1) Maintenance training shall be provided for all items in 1.4.C.5 above.
 - 2) Maintenance training shall be scheduled on at least one day shift, Monday through Thursday.
 - 3) Training shall emphasize theory of operations, troubleshooting, and preventative maintenance and repair procedures.
 - 4) The discussion shall encompass issues relating to instrumentation, electrical, and mechanical systems.
 - b. Operations training:
 - 1) Operations training shall be provided for each piece of equipment listed in Paragraph 1.4.C.5 above.
 - 2) Operations and/or Maintenance training shall be scheduled on three consecutive day shifts, Tuesday through Thursday.
 - c. Training session schedules shall be approved by the ENGINEER.
 - d. Training shall emphasize theory of operations, startup instructions, emergency and normal shutdown instructions, lockout procedures, troubleshooting, preventative maintenance, and alarm and control logic.
 7. The CONTRACTOR shall confirm each training period a minimum of three working days prior to the schedule time.

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8. If a manufacturer's representative fails to conduct a scheduled training class, the CONTRACTOR hereby agrees to compensate the OWNER for labor costs, including overhead, for all OWNER personnel in attendance for the entire scheduled training period.
9. If the CONTRACTOR or the manufacturer's representative fails to provide training that qualifies the OWNER personnel to perform equipment task requirements, the CONTRACTOR hereby agrees to provide remedial training to ensure OWNER personnel proficiency at no additional cost to the OWNER.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 RECORD KEEPING

- A. The CONTRACTOR shall maintain as a minimum, the following records:
 1. Equipment manufacturer's shop drawings.
 2. Daily logs indicating all equipment testing and startup activities.
 3. Log and time sheets of all manufacturer's representatives performing services on the jobsite.
 4. Updated equipment testing and startup schedules.
 5. Records of system cleaning.
 6. Hydrostatic and pressure test records.
 7. Equipment alignment and vibration measurements and corrective actions.
 8. Equipment lubrication records.
 9. Insulation resistance measurements.
 10. Electrical phase, voltage and amperage measurements.
 11. Electrical breaker inspection, test, and adjustment records.
 12. Logs of abnormal circuits and lifted wires.
 13. Testing and validation of all central and alarm functions.
 14. Data sheets of all testing and calibration of instrumentation devices and control loops including documentation of set points.
 15. Equipment and system release logs (from construction to startup).
 16. Daily work reports.

3.2 GENERAL PROCEDURES

- A. The general work procedures listed below outline the work to be performed by the CONTRACTOR. Additional procedures applicable to specific equipment items are specified elsewhere.
- B. Technical assistance and support:
 1. Obtain the assistance of the appropriate construction trades and the manufacturer or vendor, as required for technical assistance during equipment installation, testing, and startup by the CONTRACTOR and for training of the OWNER's Operation and Maintenance personnel.
 2. Furnish names and telephone numbers of manufacturer's and vendor's current technical service representatives for use by the ENGINEER.
- C. Instructions:

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1. Maintain an adequate manufacturer's instruction file so that the information will be readily available during equipment testing and startup.
 2. Prior to equipment testing, finalize, and transmit to the ENGINEER the applicable technical manuals as required under Section 01330, Submittal Procedures of the Contract Specifications.
- D. Removal of rust preventives:
1. Prior to equipment testing, remove all rust preventives and oils used to protect the equipment during the construction period whenever these protective materials will be detrimental to operation or equipment maintenance.
- E. Lubricants:
1. At least 60 days prior to startup, provide a list of the manufacturer's recommended lubricants for use in the plant. All equipment lubrication shall be listed with the lubricant types and quantities recommended and approved by the equipment manufacturers.
 2. Provide the necessary lubricants for startup and the initial 60 days of operation.
 3. Flush systems and install the initial charge of all lubricants. Dispose of flushing oil in accordance with applicable regulations.
 4. The CONTRACTOR shall lubricate the equipment in accordance with the manufacturer's recommendations until the equipment is accepted by the OWNER.
 5. Maintain a lubrication record for each item of equipment. The CONTRACTOR shall submit the lubrication records to the ENGINEER prior to equipment testing.
- F. Packing and seals:
1. Install, adjust, and replace packing, mechanical seals, and accessories, as necessary, during the equipment testing and startup period.
 2. Adjust seal water and flushing water flow rates in accordance with the equipment manufacturer's recommendations.
- G. Removal of temporary bracing:
1. Prior to equipment testing, remove all temporary supports, bracing, or other foreign objects that were installed in vessels, transformers, rotating machinery, or other equipment to prevent damage during shipping, storage, and erection, and repair any damage sustained.
- H. Rotation, alignment, and vibration:
1. Prior to equipment testing, check rotating machinery for correct direction of rotation and for freedom of moving parts before connecting the driver.
 2. Prior to equipment testing, perform the cold alignment and hot alignment to the manufacturer's tolerances.
 3. Prior to equipment testing, test equipment vibration and correct any vibration in excess of the manufacturer's recommendation.
- I. Tie-ins at the contract limits:
1. Provide proper notification, preparation, and coordination for safe tie-ins and minimal interference with the plant operation.
 2. Obtain approval and make the necessary tie-ins at the unit limits as required by the Contract Documents and as approved by the ENGINEER.
 3. Prior to startup, remove the temporary blind flanges, plugs, bulkheads, seals, etc.
- J. Leak and pressure tests:

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1. Provide the ENGINEER with 3-day advance notification in writing of the schedule for non-operating field leak tests or field pressure tests on piping and field fabricated equipment, unless otherwise directed by the ENGINEER.
 2. Provide the water, air and any special media required for the test purposes.
 3. Prior to startup, conduct all leak and pressure tests in accordance with applicable codes, regulations, and the Contract Documents, and as approved by the ENGINEER. The CONTRACTOR is advised that the tests shall be witnessed by the ENGINEER, to be considered valid.
 4. Maintain a record of the leak and pressure test data and work completed.
 5. Dispose of the test media in a manner that is acceptable to and approved by the OWNER and applicable regulatory agencies.
 6. Isolate in-line equipment as necessary for protection against test pressure.
- K. Pressure/vacuum safety relief devices:
1. Prior to equipment testing, test and adjust all safety devices as recommended by the equipment manufacturer.
 2. Prior to plant startup, provide the ENGINEER with a list of all field or factory equipment settings.
- L. Flushing and chemical/mechanical cleaning:
1. Prior to equipment operation, conduct all flushing, blowing, and chemical/mechanical cleaning operations without using the permanently installed equipment.
 2. Provide any special media needed for flushing and/or cleaning purposes.
 3. Dispose of all media in a manner that is acceptable to and approved by the OWNER and the applicable regulatory agencies.
 4. All systems shall be free of trash and construction debris before initiating startup.
 5. Maintain a record of the work completed.
- M. Screens, strainers, and blind flanges:
1. Provide and install temporary strainers, screens, and blind flanges as necessary to protect the equipment and to test the equipment and pipelines.
 2. Prior to startup, remove all of the temporary blinds and temporary appurtenances.
 3. Clean the screens and strainers as required during startup.
 4. At the end of startup, clean all of the permanently installed screens and strainers.
- N. Purging/inerting:
1. Prior to startup, purge and/or passivate the facilities as specified.
 2. Install purge/inerting connections in accordance with the manufacturer's recommendations.
 3. Provide purge or inerting materials and conduct the necessary operations as recommended by the equipment manufacturer.
- O. Drying out:
1. Prior to startup, dry out the facilities as specified or recommended by the equipment manufacturer to prevent contamination of catalysts, operating materials, and/or product.
 2. Dry out systems, protective coatings, refractories, and linings as specified or recommended by the equipment manufacturers.

3.3 SPECIFIC PROCEDURES

- A. In addition to the work responsibilities described in Subsection 3.2, the procedures outlined below further define the work responsibilities of the CONTRACTOR for specific systems and items of equipment.
- B. Mechanical equipment:
1. Level baseplates and soleplates and grout under all load bearing surfaces.
 2. Install suitable supports and flexible connections to alleviate any piping stresses that may be imposed on pumps, compressors, and drivers.
 3. In accordance with the manufacturer's recommendations, chemically clean lube oil, seal oil, and cooling systems. Dispose of waste and cleaning media in a manner that is acceptable to and approved by the OWNER and applicable regulatory agencies.
 4. In accordance with the manufacturer's recommendations, charge the lube oil, seal oil, and cooling systems with flushing media and circulate for cleaning purposes. Dispose of any flushing media in a manner that is acceptable to and approved by the OWNER and applicable regulatory agencies.
 5. Charge the lube oil systems, seal oil systems, and cooling systems with the amount and type of operating oil or coolant recommended by the manufacturer.
 6. Operate the equipment and check for excessive vibration, abnormal operating noises, overheating and lubricant leakage, etc., and test any safety shutdown/alarm devices for proper operation, and make any operating tests required by the ENGINEER. The adjustments required for proper operation shall be made prior to operational testing.
 7. Utilize manufacturer's representative for technical assistance during installation and startup.
 8. Prior to startup, all sidewalks, gratings, handrails, safety chains, safety shields, etc., shall be installed.
 9. Prior to startup, demonstrate to the ENGINEER's satisfaction that all chemical solution pipelines are connected to the intended tank(s), feeder(s), pump(s), and application points, and that the pipes, appurtenances contained therein and diffusers will operate at the intended flow rates.
 10. Prior to startup, the applicable safety equipment, emergency shower and eyewash units, fire extinguishers, fire suppression equipment, self-contained breathing apparatus, toxic and/or combustible gas detectors (including the respective personnel warning system), protective clothing, emergency repair kits, etc., shall be installed in an acceptable manner-subject to the ENGINEER's approval, and be fully ready for operation.
 11. All safety hazards, e.g., exposed drive shafts or rotating equipment members, exposed electrical circuitry, open electrical junction boxes and panels, improperly supported piping and conduits, missing safety devices, etc., shall be corrected prior to supplier training of the OWNER's personnel.
 12. The CONTRACTOR shall perform a comprehensive safety inspection and correct any safety deficiencies found before implementing plant startup.
 13. Roadways that are required for ambulance service, fire fighting access, delivery of treatment chemicals and supplies, and disposal of the treatment byproducts shall be completed prior to startup.
 14. Prior to startup, install all warning and safety signs, labels, and devices.
- C. Tanks:
1. Test all tanks and internals, as required to demonstrate conformance to the Contract Documents. Dispose of test media in a manner that is acceptable to and approved by the OWNER and the applicable regulatory agencies.

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2. Prior to startup, conduct chemical cleaning or flushing operations as specified. Dispose of wastes and cleaning media in a manner that is acceptable to and approved by the OWNER and the applicable regulatory agencies.
 3. Prior to startup, install all chemical identification, warning, and safety signs and labels.
- D. Electrical power and lighting systems:
1. Provide the ENGINEER with 3-day advance notification in writing of the test schedule. The CONTRACTOR is advised that the tests shall be witnessed by the ENGINEER.
 2. Perform insulation resistance tests on all wiring 120 volt and larger. Do not meggar instruments or solid-state devices.
 3. Perform insulation resistance tests on all motor and transformer windings from phase to phase and phase to ground.
 4. Perform grounding system tests to determine the continuity of connections and the value of resistance to ground.
 5. Fill electrical gear with oil and/or other media as recommended by the equipment manufacturer.
 6. Prior to energizing electrical equipment, startup, test and set switchgear and circuit breaker relays for proper coordination and operation.
 7. The CONTRACTOR shall obtain the services of a qualified "independent testing service", member of the National Electric Testing Association, to perform a thermographic survey on all switchgear buses, insulators and power connections when energized and under at least 20 percent load. Significant hot spots shall be further checked by infrared pyrometer for exact temperature rise. The CONTRACTOR shall troubleshoot and correct the thermographic hot spots. Correction shall be verified by repeating the thermographic survey at no additional cost to the OWNER.
 8. The CONTRACTOR shall obtain the services of a qualified "independent testing service", member of the National Electric Testing Association, to inspect and test the protective relays and the 800-ampere and larger drawout breakers for proper installation, adjustment, and operation in accordance with the manufacturer recommendations.
 9. The CONTRACTOR shall obtain the services of a qualified "independent testing service", member of the National Electrical Testing Association, to perform DC high potential tests on all cables that will operate at more than 2,000 volts to ground.
 10. Obtain local electrical inspector's approval where required.
 11. Energize all substations, with approval of the Utility Company and the ENGINEER after completion of all electrical testing.
 12. Prior to startup, perform tests and adjustments on all switchgear and motor control equipment to demonstrate proper operation and conformance to the Contract Documents and manufacturer's recommended settings.
 13. Prior to startup, test installation of emergency power and lighting systems for proper operation, including light intensity.
 14. Prior to startup, provide the ENGINEER with a record of all test data and the work completed.
 15. Vacuum clean all electrical equipment prior to startup and acceptance.
- E. Piping systems:
1. Provide the ENGINEER with 3-day advance notification in writing of test schedule.
 2. Hydrostatically or pneumatically test all piping as required by the codes and contract documents.
 3. After successful testing of the piping, slowly drain the system and then flush the system. Orifice plates shall be installed after testing. If installed with the piping,

they will be removed and replaced with spacers or pipe spools of equal length prior to the pressure test.

4. Dewater the system, remove blind flanges, and perform tightness tests, as required by the ENGINEER.
5. Insulate or paint piping, flanges, threaded joints, or field welds after the specified testing of each item has been completed unless instructed otherwise by the ENGINEER.
6. Leave exposed all welded joints (longitudinal, girth, and nozzle) in underground piping that have not been shop tested until the specified testing has been completed. After final testing of these joints, cover the system.
7. Prior to substantial completion and startup, check pipe hangers, supports, guides, and pipe specialties for the removal of all shipping and erection stops and for the correctness of the cold and hot settings for the design service, make adjustments as necessary to obtain proper installation. Provide the ENGINEER with instructions for the hot settings.
8. As necessary during equipment testing and at the end of substantial completion and startup, clean or replace the screens and filter elements as appropriate for the filter type and service.
9. Prior to startup, verify, to the extent required by the ENGINEER, that specified valve packing has been provided on valves installed in the plant.
10. Prior to startup, install all of the valve and piping system identification labels.
11. Prior to startup, check and record the position of all process system valves.
12. Prior to startup, correct support, vibration, and thermal expansion problems detected during the preliminary equipment testing.
13. Prior to the startup, retorque all hot and cold service bolting as required to ensure a permanent and proper installation.
14. Prior to startup, demonstrate to the ENGINEER's satisfaction that each piping system (e.g., chemical, sample, utility, irrigation process, etc.) functions as designed and required by the Contract Documents.

+ + END OF SECTION + +

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SECTION 01800

PROJECT CLOSEOUT

PART 1 - GENERAL

1.1 GENERAL

- A. Closeout is hereby defined to include general requirements near the end of the Contract Time, in preparation for Final Completion, Final Payment, normal termination of Contract, occupancy by OWNER and similar actions evidencing completion of the Work.
- B. Specific requirements for individual units of Work are specified in Sections of Divisions 2 through 16.
- C. Where a conflict exists between this section and the Contract Documents, the conditions in the Contract Documents take precedence.

1.2 CERTIFICATION OF SUBSTANTIAL COMPLETION

- A. Prior to requesting the ENGINEER's inspection for certification of each phase as Substantially Complete, the CONTRACTOR shall certify in writing that each phase of the Work is Substantially Complete and shall submit a list of known items still to be completed or corrected (Contractor's punchlist) prior to Contract Completion.
- B. The following items shall be completed:
 - 1. OWNER has been advised of any pending insurance changeover requirements.
 - 2. Specific warranties, maintenance agreements, final certifications and similar documents have been submitted.
 - 3. All tools, spare parts, extra stocks of materials, and similar physical items have been delivered to OWNER.
 - 4. Instruction of OWNER's operation/maintenance personnel and start up testing has been completed.
 - 5. Submittal and acceptance of all O&M manuals.
 - 6. Changeover of locks to OWNER's cores/keys.
- C. Punchlist:
 - 1. When the CONTRACTOR considers that the Work, or a portion or phase thereof which the OWNER agrees to accept separately, is Substantially Complete, the CONTRACTOR shall certify in writing that the work is Substantially Complete and shall prepare and submit to the ENGINEER a comprehensive list of items to be completed or corrected prior to Contract Completion (punchlist).
 - 2. The ENGINEER may add additional work items to the punchlist.
 - 3. Failure to include an item on the punchlist does not alter the responsibility of the CONTRACTOR to complete all Work in accordance with the Contract Documents.
 - 4. Upon receipt of the CONTRACTOR's punchlist, the ENGINEER will make an inspection to determine whether the Work or designated portion thereof is Substantially Complete.
 - 5. If the ENGINEER's inspection discloses any item, whether or not included on the CONTRACTOR's list, that is not in accordance with the requirements of the Contract Documents, the CONTRACTOR shall, upon notification by the ENGINEER and before

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- an issuance of the Certificate of Operational Completion is provided, complete or correct such item.
6. The CONTRACTOR shall then submit a request for another inspection by the ENGINEER.
 7. When the Work or designated portion thereof is accepted by the ENGINEER to be Substantially Complete, the ENGINEER will prepare a Certificate of Operational Completion.
 8. The date of Operational Completion shall be the date of the ENGINEER's inspection and acceptance.

1.3 FINAL CLEANUP

- A. At completion, leave project clean and ready for use.
 1. Legally dispose of waste materials, debris and rubbish off the site.
 2. Remove grease, dust, dirt, stains, labels, fingerprints and other foreign materials from exposed and enclosed surfaces.
 3. Repair, patch and touch up all affected curbs, gutters, and sidewalks to match adjacent surfaces.
 4. Broom clean paved surfaces, rake clean other surfaces of grounds. Vacuum clean all interior surfaces, rake clean other surfaces of grounds.

1.4 CONTRACT AS-BUILT DRAWINGS

- A. The CONTRACTOR shall prepare and submit Contract As-Built Drawings for the OWNER.
 1. The CONTRACTOR shall make a record of changes during construction on prints of the Drawings provided by the OWNER for this purpose (Contract As-Built Drawings) as described in Section 01330, Submittal Procedures.
 2. ENGINEER will verify on a monthly basis and provide written verification that the Contract As-Built Drawings are being developed and kept updated prior to submitting CONTRACTOR'S progress payment to the OWNER.
 3. The reproducible drawings on which changed conditions are recorded shall be returned to the ENGINEER prior to Final Completion.

1.5 WARRANTIES

- A. The Contract Documents cover the CONTRACTOR's responsibility to remedy defects due to faulty workmanship and materials.
- B. Special warranties are required by various Sections of these Specifications. Assemble written warranties, label and submit to the ENGINEER.
 1. Equipment warranties shall be written in the manufacturer's standard form and shall be countersigned by the Subcontractor or supplier and the CONTRACTOR.
 2. All other warranties shall be written on the Subcontractor's or supplier's letterhead and shall be countersigned by the CONTRACTOR.

1.6 SPARE PARTS AND MAINTENANCE MATERIALS

- A. Spare parts and maintenance materials are required by various Sections of the Specifications.
 1. Parts and materials shall be packaged so as to preclude damage in normal handling and storage.
 2. Packages shall be labeled with full description of contents and project name and clearly identified as to which item of equipment they belong to. CONTRACTOR shall

- maintain a spare parts inventory list which shall be provided to the OWNER prior to Final Completion.
3. Submit packaged parts and materials to ENGINEER.
 4. Submit the value of all spare parts.

1.7 FINAL INSPECTION

- A. Prior to requesting ENGINEER's final inspection for certification of Final Completion and Final Payment, complete the following and list known exceptions (if any):
 1. Submit Final Payment request with final releases and supporting documentation not previously submitted and accepted.
 2. Submit copy of final punchlist of itemized work to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance, endorsed and dated by ENGINEER.
 3. Submit Consent of Surety.
 4. Revise and submit evidence of final, continuing insurance coverage complying with insurance requirements.
- B. Certify in writing that the work has been completed in accordance with the Contract Documents, and request ENGINEER's final inspection.
- C. Reinspection:
 1. Within seven (7) days after receipt of the CONTRACTOR's notice that the work has been completed, including punchlist items resulting from earlier inspections, and excepting incomplete items delayed because of acceptable circumstance, the ENGINEER will reinspect the work.
 2. Upon completion of reinspection, ENGINEER will either prepare a certificate of Final Completion or advise the CONTRACTOR of work not complete or obligations not fulfilled as required for Final Completion.
 3. If necessary, inspection procedure will be repeated.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

+ + END OF SECTION + +

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SECTION 01810

CLEANING

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. This Section covers the work necessary for cleaning during construction and final cleaning on completion of the Work.

1.2 GENERAL

- A. At all times maintain areas covered by the Contract and public properties free from accumulations of waste, debris, and rubbish caused by construction operations.
- B. Pollution Control:
 - 1. Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.
 - 2. Do not burn or bury rubbish and waste materials on project site.
 - 3. Volatile wastes shall be properly stored in covered metal containers and removed daily.
 - 4. Do not dispose of volatile wastes such as mineral spirits, oil, or paint thinner in storm or sanitary drains.
 - 5. Do not dispose of wastes into streams or waterways.
- C. Construction materials such as concrete forms and scaffolding shall be neatly stacked by the CONTRACTOR when not in use. The CONTRACTOR shall promptly remove splattered concrete, asphalt, oil, paint, corrosive liquids, and cleaning solutions from surfaces to prevent marring or other damage.
- D. Use only cleaning materials recommended by manufacturer of surface to be cleaned.
- E. Use cleaning materials only on surfaces recommended by cleaning material manufacturers.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 CLEANING DURING CONSTRUCTION

- A. During execution of Work, clean site and public properties and dispose of waste materials, debris, and rubbish to assure that buildings, grounds, and public properties are maintained free from accumulations of waste materials and rubbish.
- B. Wet down dry materials and rubbish to lay dust and prevent blowing dust.
- C. Provide approved containers for collection and disposal of waste materials, debris, and rubbish. Empty containers within one day after they are full.

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- D. Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign materials from exposed and semi-exposed surfaces.
- E. Repair, patch, and touch up marred surfaces to specified finish to match adjacent surfaces.
- F. Vacuum clean all interior spaces, including inside cabinets. Broom clean paved surfaces, rake clean other surfaces of grounds.
- G. Handle materials in a controlled manner with as few handlings as possible; do not drop or throw materials from heights.
- H. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly painted surfaces.
- I. Vacuum clean interior building areas when ready to receive finish painting and continue vacuum cleaning on an as-needed basis until building is ready for substantial completion or occupancy.

3.2 FINAL CLEANING

- A. Refer to the requirements of the Contract Documents in addition to the requirements of this Section.
- B. See Section 01800, Project Closeout, for additional requirements.
- C. At the completion of Work on all Contracts and immediately prior to final inspection, cleaning of the entire Project will be accomplished according to the following provisions:
 - 1. The CONTRACTOR shall thoroughly clean, sweep, wash, and polish all work and equipment, including finishes. The cleaning shall leave the structures and site in a complete and finished condition to the satisfaction of the ENGINEER.
 - 2. Should the CONTRACTOR not remove rubbish or debris or not clean the building and site as specified above, the OWNER reserves the right to have the cleaning done at the expense of the CONTRACTOR.
 - 3. Employ professional cleaners for final cleaning.
 - 4. In preparation for substantial completion of occupancy, conduct final inspection of sight-exposed interior and exterior surfaces, and of concealed spaces.
 - 5. Remove grease, dust, dirt, stains, labels, fingerprints, and other foreign materials from sight-exposed interior and exterior finished surfaces; polish surfaces so designated to shine finish.
 - 6. Repair, patch, and touch up marred surfaces to specified finish, to match adjacent surfaces.
 - 7. Broom clean paved surfaces; rake clean other surfaces of grounds.
 - 8. Replace air-handling filters if units were operated during construction.
 - 9. Clean ducts, blowers, and coils, if air-handling units were operated without filters during construction.
 - 10. Clean luminaires in accordance with manufacturer's recommendations. Clean all light fixtures.
 - 11. Remove from the OWNER's property all temporary structures and all materials, equipment, and appurtenances not required as a part of, or appurtenant to, the completed work. See Section 01500 - Temporary Construction Facilities and Utilities.

+ + END OF SECTION + +

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SECTION 02140

DEWATERING

PART 1 – GENERAL

1.1 DESCRIPTION

- A. Furnish all labor, materials, equipment and incidentals required and remove and dispose of all surface water and groundwater encountered.
- B. Groundwater was identified in the geotechnical report; the level of groundwater will vary over time and groundwater may be present during construction. The Contractor shall assume dewatering to meet the requirements of these contract documents is required and included in lump sum bid at no additional cost to Owner.

1.2 SUBMITTALS

- A. Submit a detailed dewatering plan showing all details of proposed dewatering system including proposed areas for drainage disposal and treatment processes if necessary. Dewatering plan shall be submitted within 7 days of mobilization and shall be approved prior to any grading activities. Dewatering plans shall be developed for each phase of the work.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Piping, pumping equipment and all other materials required to provide dewatering of excavations shall be suitable for the intended purpose. Standby pumping units shall be maintained at the site to be used in case of failure of the normal pumping units.

PART 3 – EXECUTION

3.1 DEWATERING AND DRAINAGE SYSTEM

- A. General:
 - 1. Continuously control all water during the course of construction, including surface water and groundwater, to prevent any damage to any excavation, fill or to any other construction activities occurring within the site.
 - 2. Maintain all dewatering systems full time (24-hours/day) during the entire time the excavation is open. Do not shut down dewatering systems at night, on weekends or on holidays, or any other time the excavation is open.
 - 3. Provide and maintain proper equipment and facilities to remove all water entering each excavation to be kept dry during subgrade and pipe bedding preparation and continually thereafter until the structure to be built, or the pipe to be installed therein is inspected by the ENGINEER and backfill operations have been completed.
 - 4. Provide adequate alarm, monitoring and back-up systems for all dewatering systems to maintain control of all water during all times any excavation is open.

5. Temporary dewatering and drainage systems shall be in place and operational prior to beginning any demolition or earthwork activities.
6. Collect water entering the excavation from surface runoff in shallow ditches around the perimeter of the excavation, drain to sumps and pump from the excavation to maintain a bottom free from standing water and groundwater level a minimum of 2 feet below lowest point of excavation or subgrade.
7. Take all additional precautions to prevent uplift of any structure during construction. All such arrangements shall be subject to the approval of the ENGINEER.
8. Dispose of drainage so that flow or seepage back into the excavated area will be prevented. Disposal area shall be approved by the ENGINEER.
9. Prevent flotation by maintaining a positive and continuous operation of the dewatering system. If for any reason the dewatering system is found to be inadequate, make additions, changes and replacements, as necessary, to provide a satisfactory system at no additional cost to the OWNER. All damage resulting from failure to properly dewater excavations shall be repaired to the satisfaction of the Engineer at no additional cost to the OWNER.
10. CONTRACTOR shall continuously control all water during the course of construction to ensure that any earthwork materials on the site that could be used later in the project are completely protected until needed. If suitable materials are left unprotected and it results in materials being deemed unsuitable due to moisture, contamination, etc., CONTRACTOR shall remove materials from the site and replace at no additional cost to OWNER.

B. Surface Water:

1. Provide and maintain adequate drainage and dewatering system to prevent surface water from entering excavations and to remove and dispose of all rainwater entering excavations, trenches, or other parts of the Work.
2. Keep the different working areas on the site free of surface water at all times. Special care will be taken to eliminate depressions that could serve as mosquito pools.
3. The diversion and removal of surface water will be performed in a manner that will prevent the accumulation of water behind temporary structures or at any other locations within the construction area where it may be detrimental.

C. Groundwater:

1. Provide, operate and maintain dewatering system to permit excavation and subsequent construction activities in a dry, safe environment.
2. System shall be of sufficient size and capacity to maintain groundwater level a minimum of 2 feet below the lowest point of excavation.
3. CONTRACTOR shall make an assessment of the potential for dewatering induced settlement of surrounding soils and structures. CONTRACTOR shall provide all necessary equipment and facilities, including re-injection wells, cutoff walls, infiltration trenches, etc., to prevent damage to adjacent structures.

D. Disposal of water:

1. Disposal of collected water including but not limited to groundwater, surface water, and storm water shall conform to any and all applicable permit requirements.
2. Contractor shall monitor, test, record, and make any and all necessary adjustments to project BMP's to ensure compliance with project SWPPP and other permit requirements. This includes all monitoring, testing, recording, and reporting water quality information for all discharges from the site; including but not limited to discharges caused by run-on whether naturally occurring or storm

water related, storm water, non-stormwater; groundwater; and any project generated discharges.

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SECTION 02200

SITE PREPARATION

PART 1 - GENERAL

1.1 DEFINITIONS

- A. Interfering or Objectionable Material: Trash, rubbish, and junk; vegetation and other organic matter, whether alive, dead, or decaying; topsoil.
- B. Clearing: Removal of interfering or objectionable material lying on or protruding above ground surface.
- C. Grubbing: Removal of vegetation and other organic matter including stumps, buried logs, and roots greater than 0.5 inch caliper to a depth of 6 inches below subgrade.
- D. Stripping: Removal of topsoil remaining after applicable scalping is completed.
- E. Project Limits: Areas, as shown or specified, within which Work is to be performed.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 GENERAL

- A. Clear, grub, and strip areas actually needed for waste disposal, borrow, or site improvements within limits shown or specified.
- B. Do not injure or deface vegetation that is not designated for removal.

3.2 LIMITS

- A. As follows, but not to extend beyond Project limits.
 - 1. Excavation 5 feet beyond top of cut slopes.
 - 2. Trench Excavation: 4 feet from trench centerline, regardless of actual trench width.
 - 3. Waste Disposal:
 - a. Clearing: 5 feet beyond perimeter.
 - b. Scalping and Stripping: Not required.
 - c. Grubbing: Around perimeter as necessary for neat finished appearance.
 - 4. Structures: 5 feet outside of new structures.
 - 5. Roadways: Clearing , grubbing and stripping 50 feet from centerline.
 - 6. Overhead Utilities:
 - a. Clearing and Grubbing: Entire width of easements and rights-of-way.
 - b. Scalping and Stripping: Wherever grading is required.
 - 7. Other Areas: As shown.
- B. Remove rubbish, trash, and junk from entire area within Project limits.

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3.3 CLEARING

- A. Clear areas within limits shown or specified.
- B. Fell trees so that they fall away from facilities and vegetation not designated for removal.
- C. Cut stumps not designated for grubbing flush with ground surface.
- D. Cut off shrubs, brush, weeds, and grasses to within 2 inches of ground surface.

3.4 GRUBBING

- A. Grub areas within limits shown or specified.

3.5 STRIPPING

- A. Do not remove topsoil until after scalping is completed.
- B. Strip areas within limits to minimum depths shown or specified. Do not remove subsoil with topsoil.

3.6 DISPOSAL

- A. Clearing and Grubbing Debris: Dispose of debris offsite.
- B. Strippings:
 - 1. Dispose of strippings that are unsuitable for topsoil or that exceed quantity required for topsoil offsite or approved by ENGINEER.
 - 2. Stockpile topsoil in sufficient quantity to meet Project needs. Dispose of excess strippings as specified for clearing and grubbing.

+ + END OF SECTION + +

SECTION 02220

DEMOLITION

PART 1 - GENERAL

1.1 DEFINITIONS

- A. "Demolish": CONTRACTOR shall remove from the site as property of CONTRACTOR. Demolition includes disconnecting, removal, loading, repairs, cleanup, transportation, unloading, disposal permits and fees, disposal, and all other items required to remove the material from the site.
- B. "Salvage": CONTRACTOR shall remove from area of Work and place in location designated by ENGINEER. Equipment is property of OWNER. Salvage includes disconnecting, removal, repairs, cleanup, loading, transportation, unloading, and all other items required to remove and relocate the material.
- C. "OWNER to Remove": OWNER will remove from area of Work prior to CONTRACTOR commencing demolition Work for this area.
- D. "Relocate": CONTRACTOR shall relocate material shown to new locations shown on Drawings or stated herein. Relocation includes disconnecting, removal, reconnecting, attaching, repairs, and all other items required to relocate material to new location.
- E. "Abandon": CONTRACTOR shall disconnect and leave in place as specified.
- F. "Materials": Any and all items and objects that are scheduled, specified, or shown to be demolished, salvaged, removed, relocated, or abandoned.

1.2 SUBMITTALS

- A. Submittals:
 - 1. Product Information: Grout, sealants, and bonding agents to be used for patching.
- B. Informational Submittals:
 - 1. Plan and schedule phased demolition, including limits of demolition, as part of and consistent with the progress schedule specified in Section 01320, PROGRESS SCHEDULE.
 - 2. Methods of demolition and equipment proposed to demolish materials.
 - 3. Copies of any authorizations and permits required to perform Work.
 - 4. Copies of Hazardous Materials Inspection Reports.
 - 5. Repair procedures for demolition of materials beyond limits shown on Drawings.

PART 2 - PRODUCTS

2.1 GENERAL

- A. CONTRACTOR shall provide all materials and equipment in suitable and adequate quantity as required to accomplish the Work shown, specified herein, and as required to complete the Project.

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PRODUCTS

PART 3 - EXECUTION

3.1 GENERAL

- A. Drawings are based on available information. The Work may differ slightly from what is shown. CONTRACTOR shall be responsible for determining the work required by inspecting the site.

3.2 SAFETY REQUIREMENTS

- A. All Work shall be done in conformance with all applicable rules and regulations pertaining to safety.
- B. Hazardous Materials:
 - 1. See General Conditions.
 - 2. Existing facilities, or portions thereof, to be demolished may contain hazardous materials such as asbestos cement piping, residual chemicals in existing or abandoned piping, lead-based paint, mercury seals, or other unknown hazardous materials.

3.3 SEQUENCE

- A. Be responsible for the sequence of Work.
- B. Conform to constraints as specified in Section 01130, SPECIAL PROJECT CONSTRAINTS.

3.4 COORDINATION

- A. Coordination with ENGINEER:
 - 1. Only materials specified herein, shown on the Demolition Photographs or the Drawings, or approved by ENGINEER in the field shall be demolished, salvaged, removed, relocated, or abandoned.
 - 2. Verify materials scheduled to be demolished, salvaged, removed, relocated, or abandoned with ENGINEER prior to performing Work.
 - 3. Do not remove materials without prior approval of ENGINEER.
 - 4. Provide at least 3 working days' notice to ENGINEER prior to start of Work.
 - 5. Notify ENGINEER to turn off affected services or facilities before starting Work.
 - 6. Provide temporary services during interruptions to affected services or facilities as acceptable to ENGINEER.
 - 7. ENGINEER will indicate limits of Work if not clearly shown.
- B. Coordination with Utility Owners:
 - 1. Notify utility owners to turn off affected services or facilities before starting Work.
 - 2. Provide not less than 72 hours notice to utility owners prior to shutdown, unless otherwise directed by utility owners.
 - 3. Provide temporary services during interruptions to affected services or facilities as acceptable to utility owners.

3.5 LIMITS

- A. Drawings define minimum portions of materials to be demolished. Unless otherwise shown, rough cuts or breaks may be made to limits of demolition shown. If rough cuts or breaks are made exceeding limits shown, CONTRACTOR shall repair the cuts or breaks back to the dimensions shown on Drawings at CONTRACTOR's expense.
- B. If limits are not clear on the Drawings or Demolition Photographs, limits shall be as directed by ENGINEER.
- C. All areas not within the limits of demolition Work shown on the Drawings, or as specified herein, shall be left undisturbed, unless necessary for demolition of materials.

3.6 DEMOLITION

- A. General:
 - 1. Inspect condition of materials to be demolished prior to bidding to assess potential for salvage value.
 - 2. Remove all materials associated with existing equipment that is to be demolished.
 - 3. Materials within limits of demolition will become the property of CONTRACTOR.
 - 4. All materials from the demolition process shall be removed safely from the project site as soon as possible. They shall be disposed of in accordance with applicable federal, state, and city regulations. CONTRACTOR is responsible for determining these regulations and shall bear all costs associated with disposal of the materials.
- B. Pavement and Curbs:
 - 1. Provide saw cut at all concrete and pavement surfaces and curb removal limits and where neat connection lines are required.
 - 2. Surfaces exposed by demolition activities shall be repaired and finished to provide a uniform, smooth, level transition between adjacent surfaces.
- C. Concrete, CMU, and Reinforcing:
 - 1. In areas where concrete or CMU portions are to be removed from a structure, the edge of removal shall be cut with a concrete saw to leave a perpendicular edge or by core-drilling where a circular hole is required.
 - 2. Damaged concrete shall be removed to solid concrete. Damaged concrete shall include concrete that is soft, spalled, cracked, or otherwise damaged as determined by ENGINEER.
 - 3. Depth of removal shall be as determined by ENGINEER unless otherwise shown or specified.
 - 4. Reinforcing shall be cut and removed unless otherwise shown or instructed by ENGINEER.
 - 5. Spalled edges may be required to be resawn at the discretion of the ENGINEER.
 - 6. Protect adjacent structures and equipment from damage during Work.
 - 7. Exposed surfaces following demolition activities shall be repaired and finished to provide a uniform, smooth, and level transition between adjacent surfaces.
 - 8. Remove and repair designated cracked and damaged concrete areas shown in accordance with this section and Section 03300, CAST-IN-PLACE CONCRETE.
- D. Concrete Embedded Items:
 - 1. Except for core drills, demolish anchor bolts, reinforcing steel, conduit, and other materials that are concrete embedded to a minimum of 1 inch below final finished

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surface. For core drills, coat rebar exposed by core drilling with System No. 304 in accordance with Section 09900, PAINTING.

2. Plug empty pipes and conduits with fireproof sealant to maintain fire ratings for floors or walls.
 3. Patching:
 - a. Demolish damaged concrete. Damaged concrete shall be removed to solid concrete. Damaged concrete shall include concrete that is soft, spalled, cracked, or otherwise damaged as determined by ENGINEER.
 - b. Coat with approved bonding agent.
 - c. Patch with nonshrink, nonmetallic grout.
- E. Piping:
1. Pressurized Services: Install restrained caps or plugs at the demolished ends, unless otherwise shown.
 2. Gravity Services: Install concrete plugs, 5-foot minimum length.
- F. Utilities:
1. Excavate utility lines serving structures to be demolished.
 2. Demolish electrical, sanitary, and storm drainage lines serving structures to be demolished.
 3. Support or relocate utility lines exposed by Work.
 4. For water and gas lines to be demolished or capped and terminated, provide a permanent leakproof closure. Closure type shall be as recommended by utility owner.
- G. Electrical:
1. Remove conduits and wiring from materials to be demolished back to nearest junction box.
 2. For existing circuits to remain operational, intercept existing conduit at the most convenient location, or as shown, and splice and extend conduit to new location. Install new conductors as required to accomplish intended results. New conductors shall be continuous without splices between junction boxes.
 3. For existing circuits no longer needed, demolish conductors from conduits.
 4. Demolish all surface-mounted conduit which is no longer needed.
 5. For conduit below grade or concealed within walls, cap and abandon in place.

3.7 SALVAGE

- A. Salvage materials for OWNER's own use where shown.
- B. Remove materials with extreme care so as not to damage.
- C. Promptly remove materials from Work area.
- D. Store materials in location designated by ENGINEER.
- E. Clean and protect materials from dust, dirt, natural elements, and store as directed.

3.8 RELOCATION

- A. ENGINEER will determine condition of materials prior to removal.
- B. Remove all materials associated with items to be relocated.

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- C. Existing materials shall not be damaged during removal.
- D. Properly store and maintain materials in same condition as when removed.
- E. Clean and protect materials from dust, dirt, natural elements, and store as directed.

3.9 ABANDONMENT

- A. Structures: Break holes into or core drill floor slabs, catch basins, and other below-grade concrete structures to be abandoned in place to allow water to freely migrate through.
- B. Piping and Conduits:
 - 1. General: Piping and conduits to be abandoned shall be capped with a watertight plug at demolished end in a manner that will prevent entrance of soil, groundwater, or moisture.
 - 2. Pressurized Services: Install restrained caps or plugs at the demolished ends, unless otherwise shown.
 - 3. Gravity Services: Install concrete plugs, 5-foot minimum length.

3.10 REPAIR AND REPLACEMENT

- A. Any damaged materials scheduled to be salvaged or relocated shall be repaired by the CONTRACTOR to the satisfaction of ENGINEER or replaced at the CONTRACTOR's expense.
- B. Any damage to areas not within the limits of demolition Work shown on the Demolition Photographs, Drawings, or as specified herein shall be repaired or replaced to original precontract conditions at the CONTRACTOR's sole expense.

3.11 DISPOSAL

- A. Dispose of materials offsite in licensed landfills and in accordance with all local, state, and federal regulations. CONTRACTOR is responsible for obtaining any and all necessary permits for disposal.

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SECTION 02300

EARTHWORK

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Section includes: All excavation, backfill, fill, retaining walls, grading, subgrade preparation and disposing of earth materials as required. It also includes all temporary means needed to prevent discharge of sediment to watercourses from dewatering systems or erosion.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM)
1. ASTM C33, Standard Specification for Aggregate Material.
 2. ASTM C150 Standard Specification for Portland Cement
 3. ASTM C618 Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete
 4. ASTM D422, Method for Particle-Size Analysis of Soils.
 5. ASTM D423, Liquid Limit of Soils.
 6. ASTM D427, Shrinkage Factors of Soils.
 7. ASTM D698, Test Method for Laboratory Compaction Characteristics of Soil.
 8. ASTM D1140 Standard Test Methods for Amount of Material in Soils Finer Than the No. 200 (75-um) Sieve
 9. ASTM D1556, Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method.
 10. ASTM D1557 Standard Test Methods for Laboratory Compaction Characteristics of Soil
 11. ASTM D2166, Unconfined compressive strength of soils.
 12. ASTM D2922, Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
 13. ASTM D4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
 14. ASTM D4832 Standard Test Method for Preparation and Testing of Controlled Low Strength Material (CLSM) Test Cylinders
- B. U.S. Environmental Protection Agency (U.S. EPA)
1. EPA 9090 – Compatibility Test for Wastes and Membrane Liners
- C. APWA Greenbook
1. Section 200-2.5 Processed Miscellaneous Base
- D. Occupational Safety and Health Administration (OSHA)
1. Title 29, Code of Federal Regulations, Part 1926
- E. SECTION 01400 - QUALITY CONTROL

1.3 SYSTEM DESCRIPTION

- A. Permits and Regulations:

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1. Perform excavation Work in compliance with applicable requirements of governing authorities having jurisdiction.
2. Obtain all necessary permits for Work in roads, rights-of-way, railroads, etc. Also, obtain permits as required by local, state and federal agencies for discharging water from excavations, for erosion control, and for prevention of air and water pollution.

1.4 SUBMITTALS

- A. Earthwork Reports: CONTRACTOR'S approved Testing laboratory or geotechnical consultant shall submit copies of the following reports directly to ENGINEER:
 1. Tests on all materials covered by this specification section
 2. Tests on borrow material.
 3. Tests on footing and pad subgrade.
 4. Field density tests.
 5. Optimum moisture - maximum density curve for each material used for backfill.
 6. Reports of observations and statements of compliance with the project geotechnical report for all borrow material, fill, backfill, and grading including subgrades.
 7. Quality Control Plan: Names and phone numbers of independent testing companies that will be used to perform CONTRACTOR'S soil testing, asphalt concrete testing, placement observation, certifications required by the building permit (if any), statement of qualifications, and proposed procedures for performing tests and providing test results and certifications to ENGINEER.
 8. Refer to specification section 01400 Quality Control for additional requirements.
- B. Submit to the ENGINEER samples of all materials, including but not limited to select backfill, general backfill, bedding, crushed stone, lime treatment, aggregate base, sand, topsoil, and any other materials requested by ENGINEER. Submit samples of the proposed material at least seven days in advance of its anticipated use.
- C. Contractor shall submit all pot holing results to engineer a minimum of 30 days in advance of starting work on any item that requires potholing
- D. Submit PVC geomembrane liner product data sheet, installation manual, and certification from the manufacturer.
- E. Submit a Final Project Soils Testing and Observation Report.
 1. The purpose of the final report is to summarize the daily or monthly reports and indicate that all the work for the grading operation was properly performed.
 2. The final report shall be a copy of all the monthly reports and a letter tying all the monthly reports (table with reports dates) and a statement that all the work (subgrade approval, compaction tests, sampling, laboratory testing, and reporting) for the grading operation was properly performed in accordance of 01400 Quality Control.
- F. Permits:
 1. CONTRACTOR shall submit copies of all permits a minimum of 7 days in advance of starting any associated work.
- G. Quantities:
 1. CONTRACTOR shall also submit backup calculations to substantiate all payment requests for work covered by this spec section.

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- H. Excavation Support Plan:
 - 1. CONTRACTOR shall submit in advance of performing any excavation,
 - 2. CONTRACTOR shall designate on-site competent person(s) and provide copies of training records.
- I. Quality control plan for earthwork activities.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General:
 - 1. All materials shall be tested by the CONTRACTOR'S quality control laboratory or by supplier's quality control laboratory for conformance to the project requirements. Test results shall be submitted to the ENGINEER for approval.
 - 2. No material shall be placed without the approval of the ENGINEER. Materials not approved by the ENGINEER through the standard project submittal procedures will not be allowed to be installed. If CONTRACTOR places unapproved materials, a stop notice will be issued and CONTRACTOR shall be solely responsible for all schedule and cost ramifications of placing materials without obtaining contractual required approvals.
- B. Marking Tape:
 - 1. Plastic (Non-Detectable, for metallic pipes that also have pipe locating wire or as required):
 - a. Inert polyethylene, impervious to known alkalis, acids, chemical reagents, and solvents likely to be encountered in soil.
 - b. Thickness: Minimum 4 mils.
 - c. Width: 12 inches.
 - d. Identifying Lettering: Minimum 1-inch high, permanent black lettering imprinted continuously over entire length.
 - e. Manufacturers and Products:
 - 1) Reef Industries; Terra Tape.
 - 2) Pro-Line; Non-Detectable Tape.
 - 3) Or equal.
 - 2. Metallic (Detectable, for nonmetallic pipes or as required):
 - a. Solid aluminum foil, visible on unprinted side, encased in a protective high visibility, inert polyethylene plastic jacket.
 - b. Foil Thickness: Minimum 5.5 mils.
 - c. Width: 12 inches.
 - d. Identifying Lettering: Minimum 1-inch high, permanent black lettering imprinted continuously over entire length.
 - e. Joining Clips: Tin or nickel-coated, furnished by tape manufacturer.
 - f. Manufacturers and Products:
 - 1) Reef Industries; Terra "D".
 - 2) Pro-Line; Detectable Tape.
 - 3) Or equal.
 - 3. Marking tape shall be marked with the following statements:
 - a. Influent/Effluent Pipeline: "RESTRAINED PIPE"
 - b. Sanitary Sewer Pipeline: "CAUTION – SANITARY SEWER PIPELINE BURIED BELOW."
 - c. Storm Drain Pipeline: "CAUTION – STORM DRAIN PIPELINE BURIED BELOW."

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- d. For Existing Utilities Within Trench Limits: "CAUTION – BURIED PIPELINE/CONDUIT" or as specified by utility owner.
- 4. Color:
 - a. Influent/Effluent Pipeline: Blue, as specified in ANSI Z53.1 Safety Color Code.
 - b. Sanitary Sewer Pipeline: Green, as specified in ANSI Z53.1 Safety Color Code.
 - c. Others Disturbed: Color, as specified for specific utility in ANSI Z53.1 Safety Color Code.
- C. Pipe Locating Wire (Tracer Wire):
 - 1. Pipe locating wire shall be Agave insulated AWG No. 12, soft drawn, single-strand copper wire, direct burial tracer wire 600 volts E-246360 rated with 45 mil blue colored polyethylene jacket.
 - 2. Provide at least 6-mil PVC electrical tape insulation around wire where adjacent to metal pipe, valves, and in all valve boxes.
- D. Filter Fabric
 - 1. Filter fabric shall be Mirafi, Type 140N; Dupont, Type PAR, Style 3401, or equal product by Amoco and shall conform to the following requirements:
 - 2. Minimum grab strength of 120 lbs per ASTM D1682.
 - 3. Apparent open size (AOS) to be equal to or greater than the U.S. Standard Sieve No. 100 (0.210 mm) per ASTM D4751.
 - 4. Percent open area not to exceed about 25 percent. The percent open area is defined as the ratio of the sum of 20 or more individual open areas (times 100) to the sum of the corresponding 20 or more individual total areas.
 - 5. Coefficient of permeability shall not be less than 10⁻² cm/sec.
- E. Fill Material:
 - 1. Common Fill (Select or Engineered Fill):
 - a. Common Fill materials shall consist of soils obtained from on-site excavations or off-site sources that are uniformly mixed, contain no organic material, and have been passed through a 3" screen or otherwise processed to achieve a maximum particle size of 3". As defined in project specific Geotechnical Report as Engineered Fill. Select fill or backfill is material selected by the ENGINEER from the excavation.
 - b. The maximum plasticity of off-site materials shall be less than 12 as determined by a Plasticity Index (PI) Test in accordance with ASTM D4318.
 - c. If on-site material is unsuitable as determined by the ENGINEER then imported fill shall be used.
 - d. If on-site material becomes unsuitable as a result of increased moisture content, it shall be the CONTRACTOR's responsibility to off haul the unsuitable material and imported fill shall be provided by CONTRACTOR at no cost to the OWNER. Contract time extensions will not be approved by OWNER for CONTRACTOR delays caused by unsuitable materials.
 - e. All imported fill shall be approved by the OWNER in advance of delivery to the site. CONTRACTOR shall provide full analytical test results for all proposed non-virgin fill materials.

Sieve Size	% Passing
3-inch	100
¾-inch	70-100
No. 200	0-30
Liquid Limit	Plasticity Index

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<30	<12
Organic Content	
<3%	

- F. $\frac{3}{4}$ " Aggregate Base (Aggregate Base):
1. Class 2, $\frac{3}{4}$ " maximum particle size conforming to Section 26 of the Caltrans Standard Specifications. Recycled aggregate base shall not be used.
- G. 1-1/2" Aggregate Base:
1. Class 2, 1-1/2" maximum particle size conforming to Section 26 of the Caltrans Standard Specifications. Recycled aggregate base shall not be used.
- H. Drain Rock (1" Rock)
1. Drain rock shall consist of a washed uniform-graded processed gravel with 100 percent passing 1 $\frac{1}{2}$ " and less than 3 percent passing No. 4 sieve.
- I. Crushed Stone ($\frac{3}{4}$ " Crushed Rock):
1. Crushed stone will be a washed crushed rock or gravel conforming to the requirements of ASTM C33, Sieve Size #57.
- J. Granular Fill (Pervious Backfill or Granular Bedding):
1. Washed chips
 2. Unfrozen, friable, and no clay balls, roots, or other organic material.
 3. Clean or gravelly sand or gravel or crushed rock, with particle sizing distribution, as determined in accordance with ASTM D422, of:
 - a. 100 percent passing
 - 1) 1/2 inch for pipe 12" or smaller
 - 2) 3/4 inch for pipe over 12"
 - b. less than 50% percent passing 3/8 inch
 - c. Less than 10% passing No. 8 sieve;
 - d. less than 3 percent passing a No. 100 sieve; and
 - e. less than 2 percent passing a No. 200 sieve.
 4. Maximum particle size and other requirements as follows, unless otherwise specified.
 - a. 1/2 inch maximum particle size for pipe 12" or smaller; and
 - b. 3/4 inch maximum particle size for pipe over 12".
- K. Sand:
1. Natural or manufactured granular material, containing no organic material.
 2. Sand, clean or clean to silty, less than 12 percent passing No. 200 sieve.
 3. Individual Particles: Free of sharp edges.
 4. Maximum Size Particle: Pass a No. 4 sieve.
 5. If more than 5 percent passes No. 200 sieve, the fraction that passes No. 40 sieve shall be non-plastic as determined in accordance with ASTM D4318.
- L. Gravel Surfacing
1. Gravel Surfacing will be crushed rock, angular, and well-graded.
 2. Maximum size of $\frac{3}{4}$ ", at least 50% passing the No 4. screen, between 10 and 30% passing the No. 10 screen and no more than 15% passing the No. 40 screen.
 3. Color to be selected by OWNER.
- M. Controlled Low Strength Material (CLSM):

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1. Select and proportion ingredients to obtain compressive strength between at 28-days between 100 psi and 200 psi in accordance with ASTM D4832. Sufficient cement shall be added to meet the strength and material requirements given below and as required to provide sufficient strength for compacting overlying trench backfill. Provide certified mix design and test results in accordance with submittal requirements.
2. Materials:
 - a. Cement: ASTM C150, Type I or II, two sacks minimum per cubic yard.
 - b. Aggregate: ASTM C33, maximum Size 7. The amount of material passing a No. 200 sieve shall not exceed 12 percent. The above No. 200 sieve material shall be well graded so as to avoid segregation. The minus #200 sieve fraction shall be nonplastic.
 - c. Fly Ash (if used): ASTM C618, Class F.
 - d. Water: Clean, potable, containing less than 500 ppm of chlorides.
3. Mix Design:
 - a. The CONTRACTOR and its suppliers shall determine the materials and proportions used to meet the requirements of these Specifications. Make daily checks of the aggregate gradation and adjust the mix design as required. Modify the CLSM mix as necessary to meet the flowability, pumpability, and set time requirements for each individual pour.
 - b. At least 30 days before placing CLSM, submit to the ENGINEER a mix design for each CLSM to be used. The mix design shall include trial lab and field data, with pairs of 6-inch by 12-inch cylinder breaks performed at 7, 14, and 28 days. Molds shall be plastic or waxed cardboard. The mix design shall be performed by an independent laboratory under the direction of an engineer licensed in California.
 - c. No CLSM shall be placed until the ENGINEER has approved the mix design. The ENGINEER's approval of the mix design shall be understood to indicate conditional acceptance. Final acceptance will be based on tests conducted on field samples and conformance with these Specifications.
 - d. Prior to placing backfill over CLSM, CLSM shall achieve an indentation diameter less than or equal to 75 mm (3 inches) as determined in accordance with ASTM C6024.

N. Polyvinyl chloride (PVC) geomembrane liner:

1. Certified Properties
 - 1) Thickness per ASTM 5199: 30 mils
 - b. Minimum Tensile Properties per ASTM D882
 - 1) Strength at Break: 73 lbs/in.
 - 2) Elongation at Break: 380%
 - 3) Modulus at 100% Elongation: 32 lbs/in.
 - c. Tear Strength per ASTM D1004: 8 lbs min.
 - d. Dimensional Stability per ASTM D1204: 3%
 - e. Low Temperature Impact per ASTM D1790: -20 deg F
2. Index Properties
 - a. Specific Gravity per ASTM D792: 1.2
 - b. Water Extraction (% loss max) per ASTM D1239: 0.15%
 - c. Average Plasticizer Molecular Weight per ASTM D2124: 400
 - d. Volatile Loss (Max % wt loss) per ASTM D1203: 0.7%
 - e. Resistance to Soil Burial per ASTM G160
 - 1) Breaking Factor: 5%

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- 2) Elongation at Break: 20%
- 3) Modulus Force at 100% Elongation: 20%
- f. Hydrostatic Resistance per ASTM D751: 100 psi
- 3. Seam Requirements
 - a. Shear Strength per ASTM D3083: 58.4 lbs/in.
 - b. Peel Adhesion per ASTM D413: 15 lbs/in.
- 4. Manufacturer's and Products
 - a. Watersaver Company; Colorado
 - b. Or equal.

2.2 STOCKPILES

- A. Anything that is temporary fill or permanent fill shall meet compaction requirements. Stockpiles are not temporary fill and do not need compacting. The stockpile base elevation needs to be surveyed prior to any stockpile placement. After stockpile removal, the ground shall be surveyed to confirm that the entire stockpile has been removed.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Inspection:
 - 1. Provide ENGINEER with sufficient notice and with means to examine the areas and conditions under which excavation, fill, and grading are to be performed.
 - 2. ENGINEER will notify CONTRACTOR if conditions are found that may be detrimental to the proper and timely completion of the Work.
 - 3. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.
 - 4. CONTRACTOR'S third party independent quality control laboratory or geotechnical consultant shall perform any and all inspection, observation, and testing necessary to comply with special inspection requirements.
- B. "Pot-holing":
 - 1. Excavate and backfill, in advance of the construction, test pits to determine conditions or location of existing utilities and structures as required to complete the work.
 - 2. Determine the location of each existing facility involved within the area of the excavation for Work under this Contract.
 - 3. Exercise care during such location work to avoid damaging and/or disrupting the affected facility.
 - 4. CONTRACTOR is responsible for repairing, at his expense, damage to any structure, piping, or utility caused by his Work.
 - 5. Contractor shall include pot holing activities in the project schedule.
- C. Temporary Fencing:
 - 1. Furnish and install a temporary security fence surrounding excavations and work area, including stockpile and storage areas.
 - 2. Provide fence openings with gates only at vehicular, equipment and worker access points.

3.2 EROSION CONTROL

- A. General: Implement the construction procedures outlined herein to assure minimum damage to the environment during construction. Take all additional measures required to conform to the requirements of applicable codes and regulations.
 - 1. Whenever possible, locate and construct access and temporary roads to avoid environmental damage. Make provisions to regulate drainage, avoid erosion and minimize damage to vegetation.
 - 2. Where areas must be cleared for storage of materials or temporary structures, provisions will be made for regulating drainage and controlling erosion, subject to the ENGINEER'S approval.
 - 3. Remove only those shrubs and grasses that must be removed for construction. Protect the remainder to preserve their erosion-control value.
- B. Control Measures: Apply measures to control erosion and to minimize the siltation of the existing waterways, and natural ponding areas. Such measures include, but are not limited to, the use of berms, baled straw silt barriers, gravel or crushed stone, mulch, slope drains and other methods.
 - 1. Install erosion and sediment control practices where shown and according to applicable standards, codes and specifications. The practices will be maintained in effective working condition during construction and until the drainage area has been permanently stabilized.
 - 2. Temporary measures will be coordinated with the construction of permanent drainage facilities and other Work to the extent practicable to assure economical, effective, and continuous erosion and siltation control.
 - 3. CONTRACTOR will provide special care in areas with steep slopes. Disturbance of vegetation will be kept to a minimum to maintain stability.
 - 4. After stabilization, remove all straw bale dikes, debris, etc., from the site.
- C. Dust Control:
 - 1. Prevent blowing and movement of dust from exposed soil surfaces and access roads to reduce on- and off-site damage and health hazards.
 - 2. Control may be achieved by irrigation in which the site is sprinkled with water until the surface is moist.
 - 3. Repeat the process as needed.
- D. Failure to Comply: In the event CONTRACTOR repeatedly fails to satisfactorily control erosion and siltation, the OWNER reserves the right to employ outside assistance or to use its own forces to provide the corrective measures indicated. The cost of such work, plus engineering costs, will be deducted from monies due CONTRACTOR.

3.3 DEWATERING

- A. General: Conform to the requirements of Specification Section 02140 - Dewatering.
- B. Continuously control all water during the course of construction, including surface water and groundwater, to prevent any damage to any excavation, fill or to any other construction activities occurring within the site.
- C. CONTRACTOR shall continuously control all water during the course of construction to ensure that any earthwork materials on the site that could be used later in the project are completely protected until needed. If suitable materials are left unprotected and it results in materials being deemed unsuitable due to moisture,

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contamination, etc., CONTRACTOR shall remove materials from the site and replace at no additional cost to OWNER.

3.4 EXCAVATION SUPPORT SYSTEMS

A. Trench Support

1. Provide, install and maintain trench shields for all trench excavations for which trench shields are required (at a minimum, as required by OSHA).
2. Follow all OSHA guidelines and other applicable laws and ordinances.
3. Elevation of Bottom:
 - a. Excavation of earth material below the bottom of a shield will not exceed the limits established by ordinances, codes, laws and regulations.
 - b. When using a shield for pipe installation, the bottom of the shield will not extend below the mid-diameter of installed pipe at any time.
 - c. When using a shield for the installation of structures, the bottom of the shield shall not extend below the top of the bedding for the structures.
4. Moving Shield: When a shield is removed or moved ahead, extreme care will be taken to prevent the movement of pipe or structures or the disturbance of the bedding for pipe or structures. Pipe or structures that are disturbed are to be removed and reinstalled as specified.

B. Below Grade Structure Excavation Support

1. Provide, install and maintain excavation support systems for all structural excavations where excavation support is required (at a minimum, as required by OSHA).
2. Follow all OSHA guidelines and other applicable laws and ordinances.
3. Prepare excavation support plan addressing the following topics:
 - a. Details of shoring, bracing, sloping or other provisions for worker protection from the hazards of caving ground
 - b. Design assumptions and calculations
 - c. Methods and sequencing of installing excavation support
 - d. Proposed locations of stockpiled excavated materials
 - e. Minimum lateral distance from the crest of slopes for vehicles, equipment and materials
 - f. Location of vertical and horizontal monitoring points on structures and recommended frequency of monitoring for excavation support system stability and performance
4. Design of excavation support systems and excavation support plan shall be prepared by a civil or structural engineer registered in the state in which the system is installed.
 - a. Excavation support system shall consist of h-pile and lagging, sheet piles, or other reliable method of excavation support.
 - b. The use of below-ground tiebacks is allowed, however, Contractor is responsible for locating and avoiding potential conflicts with existing utilities in the area in which the tie-backs are installed. All tiebacks shall be further than 3 feet from any conflicting utility. Tiebacks shall not use existing structures for support. Tiebacks cannot extend beyond property boundary.

C. Removal of Excavation Support

1. Completely remove all excavation support unless ENGINEER specifically allows requested excavation support to remain in place after backfill.
2. Remove all excavation support in a manner that will maintain support as excavation is backfilled and will not leave voids in the backfill.

3.5 EXCAVATION

A. General:

1. Material removed: Excavations include earth, sand, clay, gravel, hardpan, boulders, rock, silt, cobbles, pavements, rubbish and all other materials within the excavation limits.
2. Excavations for structures and pipelines will be open excavations. Provide excavation protection system(s) required by ordinances, codes, law and regulations to prevent injury to workers and to prevent damage to new and existing structures or pipelines.

B. Structural Excavation:

1. The elevation of the bottom of footings shown is approximate only. ENGINEER may order such changes in dimensions, and elevations as may be required to secure a satisfactory footing.
2. Hand-trim all structure excavations to permit the placing of full widths and lengths of footings on horizontal beds. Rounded and undercut edges will not be permitted.
3. Excavations shall allow for aggregate base, forms, working space, installation of shoring or bracing or the safe sloping of banks.

C. Pipe Trench Excavation:

1. No more than 100' of trench may be opened in advance of pipe laying.
2. Minimize trench width to the greatest extent practical, but conform to the following:
 - a. Sufficient to provide room for installing, jointing and inspecting piping, but in no case wider at top of pipe than pipe barrel outside diameter plus 3'.
 - b. Enlargements at pipe joints may be made, if required, and approved by ENGINEER.
 - c. Sufficient for shoring and bracing, or shielding and dewatering.
 - d. Sufficient to allow thorough compaction of backfill adjacent to bottom half of pipe.
 - e. Depth of trench will be as shown. If required and approved by ENGINEER, depths may be revised.

D. Subgrades:

1. Subgrades for roadways, structures and trench bottoms shall be firm, unyielding, dense, and thoroughly compacted and consolidated; free from mud, muck, and other soft or unsuitable materials; and remain firm, unyielding and intact under all construction operations.
2. Subgrades that are otherwise solid, but which become soft or mucky on top due to construction operations, shall be reinforced with select fill.
3. The finished elevation of stabilized subgrades shall not be above subgrade elevations shown.
4. Subgrades should be proof rolled prior to use or placement of engineered fill. Proof rolling should be performed using a loaded water truck, loaded scraper, loaded 10 wheeled truck or any other equipment of sufficient size and weight that is approved by Engineer. Engineer shall observe the proof rolling and verify that the subgrade is firm and unyielding prior to further construction on the subgrade soils.
5. If the trench bottom is not firm and unyielding, then trench subgrade shall be stabilized with placement of a geotextile fabric on the trench bottom and wrap it with at least one foot of 1-inch drain rock or compacted processed miscellaneous base as per APWA Greenbook Section 200-2.5.

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6. CONTRACTOR'S dewatering operations shall maintain the groundwater level a minimum of 2 feet below the subgrade at all times.
- E. Material Storage: Stockpile satisfactory excavated materials in approved areas, until required for backfill or fill. Place, grade and shape stockpiles for proper drainage.
 1. Locate and retain soil materials away from edge of excavations.
 2. Dispose of excess soil material and waste materials as specified hereinafter.
- F. Unauthorized Excavation:
 1. All excavation outside the lines and grades shown, and which is not approved by ENGINEER, together with the removal and disposal of the associated material is at the CONTRACTOR'S expense.
 2. Unauthorized excavations shall be filled and compacted with select fill by the CONTRACTOR at CONTRACTOR's expense and will not be approved for payment under the GMP.

3.6 PLACEMENT OF FILL AND BACKFILL

- A. General:
 1. Backfill excavations as promptly as Work permits, but not until completion of the following:
 - a. Acceptance by the ENGINEER of construction below finish grade.
 - b. Inspection, testing, approval, and recording of locations of underground piping and ductwork.
 - c. Removal of concrete formwork.
 - d. Removal of shoring and bracing, and backfilling of voids with satisfactory materials.
 - e. Removal of trash and debris.
 2. Remove and replace with approved fill material, as specified, fill containing organic materials or other unacceptable material "and uncertified fill.
 3. Compact all fill and backfill as specified in Subsection 3.7.
- B. Structural Backfill:
 1. Select fill shall be placed as structural backfill where shown on the Drawings or indicated herein.
 2. Constraints:
 - a. Backfill water-holding basins or structures only after satisfactory leakage tests have been conducted as specified in Sections Concrete, Precast Concrete, and Prestressed Concrete Tank.
 - b. No backfill or fill material shall be placed when free water is standing on the surface of the area.
 - c. No compaction of fill will be permitted with free water on any portion of the fill to be compacted.
 - d. No fill shall be placed or compacted in a frozen condition or on top of frozen material.
 - e. Any fill containing organic materials or other unacceptable material previously described shall be removed and replaced with approved fill material prior to compaction.
 3. Levels of backfill against concrete walls are not to differ by more than 2' on either side of walls, unless walls are adequately braced or all floor framing is in place up to and including grade level slabs.
 4. Wherever a pipe passes through a structure backfill, the structure backfill shall be placed and compacted to an elevation 12" above the top of the pipe before the trench is excavated.

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C. Backfill in Pipe Trenches:

1. Pipeline trenches may be backfilled prior to pressure testing, but no structure shall be constructed over any pipeline until it has been tested.
2. Unless otherwise shown, place all pipe on a minimum 6" thick layer of Granular Fill. The bedding shall extend 12" above the top of the pipe.
3. Install bedding as follows:
 - a. Spread and compact bedding and grade to provide a uniform and continuous support beneath the pipe at all points between bell holes or pipe joints.
 - b. After each pipe section is placed, deposit and compact sufficient bedding material under and around each side of the pipe to hold the pipe in proper position and to maintain alignment during subsequent pipe jointing and bedding operations.
 - c. Bedding material shall be deposited and compacted uniformly and simultaneously on each side of the pipe to prevent lateral displacement. Then place and compact the bedding material to an elevation 12" above the top of pipe.
4. Above the level of bedding, place Select or Common Fill, as specified elsewhere in these specifications.
5. Controlled Low Strength Material (CLSM):
 - a. When CLSM pipe zone material is indicated, the pipe may be supported above the trench floor on pea gravel bags or sandbag supports. The CONTRACTOR shall demonstrate to the ENGINEER, 7 days prior to full pipeline backfill installation, placement of CLSM as described below. This demonstration shall occur on the first 300 feet of trench, The CLSM pipe zone material shall be installed as indicated.
 - 1) Bedding and Embedment: Place and consolidate CLSM pipe zone material using the following techniques:
 - a) Following placement and anchoring of the pipe, remove all loose soil and debris from trench walls and floor. Remove any unstable soil at the top of the trench which might fall into the trench during placement of the CLSM.
 - b) Deliver the CLSM to the trench in ready mix trucks or traveling pug mill and utilize pumps or chutes to place the CLSM in the trench. Direct CLSM to one side of the pipe, taking care not to displace the pipe at any time. Continue placing CLSM on one side of the pipe until CLSM has gone under the pipe and up the other side to a depth of 6 inches above the pipe bottom. Use at least two handheld vibrators to continuously liquefy and move CLSM into all voids. Adjust water in mixture to maintain fluid consistency but maintain strength requirements. Continue placing CLSM on both sides of the pipe continuously using two vibrators for every 30 feet of pipe run.
 - c) Maintain stability of pipe and conduit throughout CLSM placement and curing. CLSM will likely require placement in lifts to prevent pipe flotation. No movement of the pipe caused by flotation will be allowed. If any movement occurs, the CLSM material shall be removed and/or repaired in full conformance with these Contract Documents at no additional cost to the OWNER. Remove all sloughed material or other debris from top of previously placed CLSM.
 - d) Indentation in the CLSM of a diameter of less than or equal to 3" in accordance with ASTM C6024 is required prior to placing each lift as well as trench zone material or other fill on top of CLSM. A smaller cure period will be allowed if it can be demonstrated to the ENGINEER that it will support the individual lift or trench zone material. The CLSM shall

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be sufficiently strong to support trench backfill material and the compaction effort required to achieve the specified compaction.

D. Marking Tape:

1. Continuously install marking tape along centerline of all buried piping, on top of last lift of pipe zone material unless otherwise shown. Coordinate with piping installation drawings. Install in accordance with manufacturer's recommendations.
 - a. Metallic Marking Tape: Install with nonmetallic piping and waterlines. Join ends with clips provided by the manufacturer.
 - b. Plastic Marking Tape: Install with metallic piping.

E. Pipe-Locating Wire:

1. Pipe-locating wire shall be provided for the entire length of all water pipelines and shall be continuous around restrained joint sections.
2. Install pipe locating wire by strapping to the top of the pipe with PVC tape, polyethylene-backed tape, or tie locks. Test pipe locating wire with pipe locator equipment prior to final acceptance.
3. Stub the pipe-locating wire up inside each valve box or flush-mounted Type C corrosion monitoring stations. Sufficient excess length shall be provided at terminal connections to allow continuation of the pipe-locating wire to the terminal connection.
4. Wire splices shall be made with compression fittings or soldering; wrapped with Tac-Tape, Aqua-Seal, or equal, and wrapped with electrical tape. Prevent bare copper wire from contacting metallic appurtenances including, but not limited to, pipe, buried valves, or fittings.

F. Resume backfilling operations using the techniques described above to complete the pipe zone backfill. ENGINEER will approve the pipe zone backfill prior to initiating the trench zone backfill.

G. Embankments:

1. To the maximum extent available, use excess earth obtained from structure and trench excavations for construction of acceptable embankments. Obtain additional material from borrow pits, if such pits are shown, otherwise obtain additional material from offsite sources as necessary.
2. Strip, scarify, level, key, and roll the subgrade so that surface materials of the subgrade will be compact and well bonded with the first layer of the embankment.
3. Wherever a pipe is to pass through a fill or embankment, place and compact the fill or embankment material to an elevation 12" above the top of the pipe before the trench is excavated.

H. Crushed Stone:

1. Place where shown on the Drawings, to the limits shown.
2. Place in hand-tamped lifts, not to exceed 6".

I. Replacement of Unacceptable Excavated Materials: In cases where over-excavation for the replacement of unacceptable soil materials is required, backfill the excavation to the required subgrade with select backfill material and thoroughly compacted.

3.7 COMPACTION

A. General:

1. Compaction by inundation with water will not be permitted.

2. Provide equipment capable of discing, aerating, and mixing the soil to ensure reasonable uniformity of moisture content throughout the material and to reduce the moisture content by air drying, if necessary.
3. Perform compaction with equipment suitable for the type of fill material being placed. Select equipment that is capable of providing the minimum relative compaction required by these Specifications. Use hand-operated compacting equipment within a distance of 3 feet from the wall of any completed below grade structure. Between 3 feet and 12 feet adjacent to structures, compaction may be completed with lightweight compaction equipment weighing less than 15,000 pounds. Beyond 12 feet adjacent to structures, there are no equipment weight restrictions. Provide equipment that is capable of compacting in restricted areas next to structures and around piping.

B. Fill Compaction Density Requirements: The degree of compaction required for several types of materials are listed below. Moisten or aerate material as necessary to provide the moisture content specified, or if not specified, that will facilitate obtaining the specified compaction.

MATERIAL	Required Minimum Density (ASTM D 1557)	Maximum Uncompacted Lift*
Common Fill:	90%	8"
Select Fill and Trench Backfill:		
Within 2 feet of final grade	95%	8"
More than 2 feet below final grade	90%	8"
Aggregate Base:	95%	8"
Granular Fill	90%	6"
Sand	90%	6"
Gravel Surfacing	95%	6"

*Where large areas of backfill allow for use of large, heavy equipment, ENGINEER may, at their option, allow uncompacted lifts up to 12".

- C. Moisture Content: All fill and backfill shall be prepared and thoroughly mixed to achieve optimum moisture content, $\pm 3\%$, with the following exception: On site clayey soils moisture content is limited to optimum to $+3\%$.
- D. Testing: Testing shall be performed as specified under Paragraph 3.11, "Field Quality Control".
- E. Subgrade compaction shall be as shown in subsection 3.8, "Grading".

3.8 GRADING

- A. General:
1. Uniformly grade areas within limits of grading under this Section, including adjacent transition areas.
 2. Smooth subgrade surfaces within specified tolerances, and compact with uniform levels or slopes between points where elevations are shown or between such points and existing grades.

- B. Adjacent to Structures: Grade areas adjacent to structures to drain away from structures (including fences) and to prevent ponding.
- C. Walks: Shape surface of areas under walks to line, grade and cross-section, with finish surface not more than 1" above or below the required subgrade elevation.
- D. Pavements: Shape surface of areas under pavement to line, and grade and cross-section with finish surface not more than 1/2" above or below the required subgrade elevation.
- E. Under Building Slabs: Grade smooth and even, free of voids, compacted as specified and to required elevation. Provide final grades within a tolerance of 1/2" when tested with a 10' straightedge.
- F. Special Areas: In turfed areas or areas covered with gravel, stone, wood chips, or other special cover, grade to within not more than 1-inch above or below the required subgrade elevations.
- G. Subgrade Compaction: After excavating or grading, compact subgrade surfaces to the required minimum densities as follows for each area classification.

Area	Required Minimum Density (ASTM D 1557)
Beneath Structures, Tanks, and Buildings	95%
Beneath Asphalt Concrete Pavement	95%
Landscaped Areas	85%
Other areas not specifically described above	90%

3.9 PAVEMENT BASE COURSE

- A. Shoulders:
 - 1. Place shoulders along edges of base course to prevent lateral movement.
 - 2. Construct shoulders of acceptable soil materials, placed in such quantity to compact to thickness of each base course layer.
 - 3. Compact and roll at least a 12" width of shoulder simultaneously with compacting and rolling of each layer of base course.
- B. Placing:
 - 1. Place base course material on prepared subgrade in layers of uniform thickness conforming to indicated cross-section and thickness.
 - 2. Maintain to +/- 3% of optimum moisture content for compacting base material during placement operations.

3.10 MEMBRANE LINER INSTALLATION

- A. Prior to placing the top 1-foot of coarse aggregate, the subgrade base shall be compacted and then the leak detection trench shall be lined with 30-mil thick geomembrane liner as specified in this Section using waterproof joints.
- B. Laps shall be sealed by glue at all joints in accordance with the manufacturer's instructions.

- C. Placement of the 30 mil sheeting shall start at the outside circumference of the tank and be carried to the center of the tank.
- D. The Contractor shall not drive stakes through the membrane unless a method of membrane repair has been submitted and approved by the ENGINEER.
- E. The liner shall be cut/fitted to provide a uniform layer of liner material against the start and termination surfaces with a maximum fold thickness and layers at any point as shown on plans
- F. Liner shall be held tight to tank by tensioned bull tape with minimum wraps and spacing as shown on plans.

3.11 FIELD QUALITY CONTROL:

- A. General: Testing by a testing laboratory of materials, testing for moisture content during placement and compaction of fill materials, subgrade certification, fill placement observation, and of compaction requirements for compliance with technical requirements of the Specifications, geotechnical report, and building permit requirements shall be the CONTRACTOR's responsibility.
- B. The CONTRACTOR shall retain one or more independent testing agencies to perform all quality control testing, placement observation, and certification required for all materials except portland cement concrete. The required testing includes but is not limited to all soil, aggregates, imported gravel, aggregate base, asphalt concrete, and CLSM. Each independent testing agency shall perform the testing under the supervision of an engineer registered in California. Technicians performing the testing shall be certified to operate the equipment, employed by the testing agency, and have at least 1 full year of experience in the type of tests being performed.
- C. A Quality Control Plan shall be submitted by the CONTRACTOR to the ENGINEER at least 30 days before earthwork operations begin. It shall include the names, addresses, and phone number of the companies, the major personnel that will be involved, and resumes of the individuals that will be supervising, performing testing and observing CONTRACTOR'S earthwork operations. Copies of certificates held by the companies and the testing personnel shall be included.
- D. CONTRACTOR's independent testing agency shall perform all field and laboratory testing as described in these Specifications. Tests shall include specific gravity, sand equivalent, durability, abrasion resistance, soundness, gradation, Plasticity Index, compaction curves, lab and field moisture contents, compressive strength, and field density. Other tests shall be performed by the CONTRACTOR's independent testing agency as may be required to meet the Specifications. Mix design testing for portland cement concrete, CLSM, and asphalt concrete shall also be performed by the CONTRACTOR. Field sampling and testing for portland cement concrete will be performed by the ENGINEER.
- E. CONTRACTOR shall schedule all lab testing so that materials arriving at the site have been previously approved by the ENGINEER for use on the Project.
- F. All lab tests shall be performed on Samples obtained from the source of actual material that will be used on the Project. No test results more than 90 days old shall be submitted for review.

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- G. The location of field density tests shall be determined by the ENGINEER.
- H. Frequency of tests: Frequency will be not less than as follows:
1. For trenches:
 - a. In open fields: Minimum of 2 locations every 500 linear feet or less, for each lift
 - b. Along dirt, gravel, or paved roads or off traveled right-of-way: Minimum of 2 locations every 250 linear feet or less, for each lift
 - c. Crossing roads: Minimum of 2 locations along each crossing, for each lift
 2. For structural backfill: Minimum of 1 every 50 cubic yards.
 3. In embankment or fill: Minimum of 1 every 200 cubic yards.\
 4. Base material: Minimum of 1 every 50 cubic yards
 5. Footing Subgrade: 1 every 50 linear feet, for each lift.
 6. Paved Areas, Structure Subgrades: 1 every 500 square feet, but in no case less than 3 tests, for each lift.
- I. The ENGINEER may modify the frequency or spacing of tests to provide for testing at specific structures or locations where the ENGINEER deems additional testing is required. The CONTRACTOR shall perform such additional testing up to 15 percent above the frequency and total number of tests specified at no additional cost to the OWNER.
- J. Verbal and hand-written test results shall be provided to the ENGINEER and CONTRACTOR immediately following the field testing. Written test data sheets including daily reports shall be provided to the ENGINEER by close of business the day the tests were completed. Typed lab test results shall be provided to the ENGINEER not more than 3 calendar days following completion of the tests; however, the results must be reviewed and approved by the ENGINEER prior to placing the material in the trenches or incorporating it in the Work.
- K. CONTRACTOR'S independent testing laboratory and geotechnical consultant shall provide a final project soils testing and observation report prior to final acceptance and release of payment in accordance with the contract requirements.
- L. Any location where a failing test occurs shall be recompacted and retested until a passing test is obtained. Specified testing values are minimums and no tests shall be accepted below the specified minimums. No material shall be placed over the failing test area until the failing material is recompacted and a passing test is obtained, and the area is approved by the ENGINEER. The limits of the failing test shall be assumed to be halfway between the failing location and the nearest passing location. Additional tests may be taken to determine the limits of unsatisfactory compaction.
- M. Along with the monthly progress pay application submittal, the CONTRACTOR shall provide to the ENGINEER a typed summary of all tests performed for the previous month including test location by station or location, elevation, depth below finished grade, material tested, wet density, moisture content, dry density, maximum density curve used, and percent relative compaction. Lab test results shall also be included in the monthly report with clear description of material tested, intended use on the Project, and a statement of compliance or noncompliance with the Project requirements..
- N. Any material which does not meet the Specifications shall be removed from the site and replaced with material in compliance.

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- O. Material which has been softened or modified prior to placing the overlying lift shall be removed down to material which is in compliance.

3.12 DISPOSAL OF EXCAVATED MATERIALS

- A. Material removed from the excavations that does not conform to the requirements for fill or is in excess of that required for backfill shall be hauled away from the project site and disposed of by CONTRACTOR in compliance with ordinances, codes, laws and regulations at no additional cost to the OWNER.
- B. Except and delineated on drawings, a site is not available to dispose of excess material.
- C. CONTRACTOR shall provide the OWNER a letter of acceptance from the property owner of any offsite location where CONTRACTOR temporarily or permanently stores excavated materials removed from the project site.

+ + END OF SECTION + +

SECTION 02360

MECHANICALLY STABILIZED EARTH FOUNDATION IMPROVEMENT SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

- A. Mechanically Stabilized Earth (MSE) foundation improvement system having structural geogrids and liners that interact with cohesionless soil to create a stiffened, high modulus raft foundation. Work consists of:
 - 1. Providing supplier representative for pre-construction meeting with Contractor and Engineer.
 - 2. Furnishing structural geogrid reinforcement as specified herein and shown on the construction drawings.
 - 3. Storing, cutting and placing structural geogrid reinforcement as specified herein and as shown on the construction drawings.
 - 4. Placement and compaction of reinforced fill within the MSE foundation improvement system as specified herein and as shown on the Drawings.
 - 5. Incidental earthwork as necessary to complete the MSE foundation improvement system specified herein and as shown on the construction drawings.
 - 6. Installing liners as per the construction drawings.
- B. Related Sections
 - 1. Section 02200 - Site Preparation
 - 2. Section 02300 - Earthwork
- C. Alternates
 - 1. Geotextile materials will not be considered as an alternate to geogrid materials for the MSE foundation improvement system. A geotextile may be used in the cross-section to provide separation, filtration or drainage; however, no structural contribution will be attributed to the geotextile.
 - 2. Alternate geogrid materials shall not be used unless submitted to the Engineer and approved in writing by the Engineer at least 7 business days before the bid opening. Polyester geogrids, whether coated or uncoated, will not be approved for use in calcareous, alkaline, or highly acidic environments including lime-treated or cement-treated soils, crushed limerock, or soils potentially exposed to leachate from cement, lime, or de-icing salts. In no case shall polyester geogrids be used in soils with a pH > 9.
 - 3. To be considered, submittal packages for alternate geogrid materials must include:
 - a. A sample of the alternate geogrid material and certified specification sheets.
 - b. Recommended installation instructions.
 - c. An explanation of engineering techniques used, and sample design drawings and calculations prepared and sealed by a Professional Engineer licensed in the State, and if applicable, the company registration information.
 - d. Additional information as required by the Engineer.
 - 4. Engineer approval of alternative systems and suppliers will be based upon the following considerations:
 - a. The reinforcement for the system has been reviewed and pre-approved for use.

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- b. The supplier has a large enough operation, adequate financial resources, and necessary experience to supply and support the construction on a reliable and timely basis.
- c. The material supplier/manufacturer has adequate Professional Engineers' Errors and Omissions insurance to cover the potential liability incurred as designer of record for the system.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM)
- B. D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lb/ft³ (2,700 kN-m/m³))
- C. Tensar International Corporation, Inc. (TIC)
 - 1. Dimension™ Solution Software version 2.x

1.3 DEFINITIONS

- A. Geogrid - A polymeric grid formed by a regular network of integrally connected tensile elements with apertures of sufficient size to allow interlocking with surrounding soil, rock, or earth and function primarily as reinforcement.
- B. Multi-Layer Geogrid - A geogrid product consisting of multiple layers of grid which are not integrally connected throughout.
- C. Resistance to Long-Term Degradation - Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments measured via EPA 9090 immersion testing. Values shown are typical values.
- D. Reinforced Fill - Compacted structural fill placed above and below the layers of geogrid, the reinforced fill boundaries shall be defined as the limits of the MSE foundation system as indicated on the construction drawings.

1.4 SYSTEM DESCRIPTION

- A. Design Requirements - The MSE foundation improvement system shall have been designed using the Dimension Solution Software or other approved methodology.
- B. Performance Requirements for the MSE Foundation Improvement System - Design calculations should substantiate that the proposed MSE foundation improvement system satisfies the allowable total and differential settlement and bearing capacity factor of safety design parameters as shown in the construction drawings or as required by the Engineer.

1.5 SUBMITTALS

- A. Submit geogrid product data sheet and certification from the manufacturer.
- B. Submit manufacturer's installation instructions and general recommendations.
- C. Working Drawings for Alternative Foundation Support Systems or Materials.

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1. Complete details, including working drawings and supporting design calculations, for any alternative approved foundation support systems or materials shall be submitted by the Contractor to the Engineer for review at least 4 weeks before construction. The Contractor shall submit 6 sets of detailed design calculations, construction drawings, and shop drawings for approval. The calculations and drawings shall be prepared and sealed by a Professional Engineer licensed in the State. The design submittal provided by the Contractor shall indicate the procedures by which the geogrid soil reinforcement will be installed. Working drawings and calculations shall include the following:
 - a. Existing ground elevations that have been verified by the Contractor for each location involving construction of a foundation system.
 - b. Complete design calculations substantiating that the proposed design satisfies the design parameters shown in the construction drawings or as required by the Engineer.
 - c. Complete details of all elements required for the proper construction of the system.
 - d. Earthwork requirements including specifications for material and compaction of backfill.
 - e. Other information requirements shown in the construction drawings or called out by the Engineer.
2. The Contractor shall not start work on any alternative foundation improvement system or material until such drawings have been approved by the Engineer. Approval of the working drawings shall not relieve the Contractor of any of his/her responsibility under the contract for the successful completion of the work.

1.6 QUALITY ASSURANCE

- A. Designer - The design of the MSE foundation improvement system shall be performed by a Professional Engineer who is registered in the State where the project is located and who is familiar with geotechnical engineering.
- B. Pre-Construction Conference - Before construction of the MSE foundation improvement system, hold a meeting at the site with the geogrid supplier, Contractor, and the Designer to review the construction procedure. Notify the Owner, the Engineer, and/or Architect at least 3 business days in advance of the time of the meeting. The representative of the geogrid supplier shall be available on an "as needed" basis during construction.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Storage and Protection
 1. Prevent excessive mud, wet concrete, epoxy, or other deleterious materials from coming in contact with and affixing to the geogrid materials.
 2. Store at temperatures above -20 degrees F (-29 degrees C).
 3. Rolled materials may be laid flat or stood on end.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Geogrid:
 1. The Tensar Corporation, Morrow, GA,

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2. Or Equal.

2.2 MATERIALS

- A. Structural Soil Reinforcement Geogrid – The geogrid component of the MSE foundation improvement system shall be TriAx™ TX5 or TX7 and shall be integrally formed and produced from a punched sheet of polypropylene which is then oriented in three substantially equilateral directions so that the resulting ribs shall have a high degree of molecular orientation, which continues at least in part through the mass of the integral node.
- B. The resulting geogrid structure shall have apertures that are triangular in shape, and shall have ribs with a depth-to-width ratio greater than 1.0.
- C. The geogrid shall have the nominal characteristics shown in the table below, and shall be certified in writing by the manufacturer to be TX5 or TX7:

TX5				
Properties	Longitudinal	Diagonal	Transverse	General
Rib pitch, mm (in)	40 (1.60)	40 (1.60)	-	
Mid-rib depth, mm (in)	-	1.3 (0.05)	1.2 (0.05)	
Mid-rib width, mm (in)	-	0.9 (0.04)	1.1 (0.04)	
Rib shape				rectangular
Aperture shape				triangular

TX7

Properties	Longitudinal	Diagonal	Transverse	General
Rib pitch, mm (in)	40 (1.60)	40 (1.60)	-	
Mid-rib depth, mm (in)	-	2.0 (0.08)	1.6 (0.06)	
Mid-rib width, mm (in)	-	1.0 (0.04)	1.3 (0.05)	
Rib shape				rectangular
Aperture shape				triangular

2.3 BACKFILL MATERIALS

- A. Reinforced Backfill - The fill material in the reinforced fill zone shall be cohesionless material with a maximum particle size of 2 inches, have less than 15 percent passing the No. 200 Sieve, and an internal friction angle of at least 30 degrees. In addition, if gravel is used as the fill material, it shall be well graded.

2.4 CONSTRUCTION DOCUMENTATION

- A. The Contractor shall establish and maintain quality control for foundation construction operations to assure compliance with contract requirements and maintain detailed records of their quality control for all construction operations. Three copies of all records of inspections and tests, and all of the records of corrective action taken, shall be furnished to the Engineer on a monthly basis when work under this section is being performed.

PART 3 - EXECUTION**3.1 EXAMINATION**

- A. The Contractor shall check the geogrid upon delivery to verify that the proper material has been received. The geogrid shall be inspected by the Contractor to be free of flaws or damage occurring during manufacturing, shipping, or handling.

3.2 FOUNDATION PREPARATION

- A. Brush, trees, logs, topsoil, and other debris shall be removed as specified in the contract documents. No fill shall be placed on frozen ground. After clearing, grade smooth, compact, and establish the proper elevations as shown on the construction drawings or as directed by the Engineer.

3.3 STRUCTURAL GEOGRID INSTALLATION

- A. Structural geogrid shall be laid at the proper elevation and alignment as shown on the construction drawings.
- B. For square or rectangular footings, the structural geogrid shall be oriented such that the roll direction runs perpendicular to the roll direction of the previous layer of

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geogrid. For strip footings, the structural geogrid shall be oriented such that the roll length runs parallel to the footing direction. A minimum of 2 layers of structural geogrid are required for the MSE foundation improvement system.

- C. Geogrid may be temporarily secured in place with staples, pins, sand bags or backfill as required by fill properties, fill placement procedures or weather conditions, or as directed by the Engineer.
- D. Overlap
 1. Structural geogrid sections shall be overlapped as indicated on the construction drawings or as directed by the Engineer.
 2. Minimum overlap is 1 foot (300 millimeters).
 3. Care shall be taken to ensure that structural geogrid sections do not separate at overlaps during construction. To prevent separation, simple joining methods may be utilized, such as wire ties, plastic ties, hog rings, staples or hooks. Joint spacings of 20 to 30 feet are normally adequate to prevent grid separation at overlaps.

3.4 GRANULAR FILL PLACEMENT OVER STRUCTURAL GEOGRID

- A. The fill in the reinforced zone shall be placed in lift thickness as directed in the construction drawings or as directed by the Engineer. The fill in the reinforced zone shall be compacted to a density of at least 95 percent maximum density as determined by Modified Proctor Test (ASTM D1557). Otherwise, the fill in the reinforced zone shall be placed in lifts and compacted as directed under Section 02300. Granular fill material shall be placed, spread and compacted in such a manner that minimizes the development of wrinkles in the geogrid and/or movement of the geogrid.
- B. A minimum loose fill thickness of 6 inches is required prior to operation of tracked vehicles over the geogrid. Turning of tracked vehicles should be kept to a minimum to prevent tracks from displacing the fill and damaging the geogrid. When integrally-formed geogrids are used, rubber-tired equipment may pass over the geogrid reinforcement at slow speeds (less than 10 mph). When coated geogrids or geogrids composed of small-diameter fibers are used, rubber-tired equipment shall not be allowed directly on the geogrid. Sudden braking and sharp turning movements shall be avoided.
- C. Pre-wet granular fill below the tank concrete floor slab and wall footing to a saturated surface dry condition immediately prior to pouring concrete.

3.5 REPAIR

- A. Any geogrid damaged during installation shall be replaced by the Contractor at no additional cost to the Owner.
- B. Coated geogrids shall not be used if the coating is torn, shedding, cracked, punctured, flawed or cut, unless a repair procedure is carried out as approved by the Engineer. The repair procedure shall include placing a suitable patch over the defective area or applying a coating solution identical to the original coating.

- C. Dewater measures, as discussed in the project specifications, should be constructed to maintain groundwater at least two feet below subgrade and to maintain a dry, firm, and unyielding work area.

3.6 PROTECTION

- A. Follow the Manufacturer's recommendations regarding protection from exposure to sunlight.

3.7 MEMBRANE LINER INSTALLATION

- A. Prior to placing the top 1-foot of coarse aggregate, the compacted subgrade base and leak detection trench shall be lined with 30-mil thick sheeting as specified in this Section using waterproof joints.
- B. Laps shall be sealed by glue at all joints in accordance with the manufacturer's instructions.
- C. Placement of the 30 mil sheeting shall start at the outside circumference of the tank and be carried into the center of the tank.
- D. The Contractor shall not drive stakes through the membrane unless an acceptable method of membrane repair is utilized.

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SECTION 02390

RIPRAP

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Administrative Submittals: Trip tickets showing source, type, and weight of each load of material delivered to site.
- B. Quality Control Submittals:
 - 1. Certified Test Results for Each Class of Riprap for Each Quarry Used to Supply Material:
 - a. Gradation.
 - b. Abrasion resistance.
 - c. Bulk density.

PART 2 - PRODUCTS

2.1 GEOTEXTILES

- A. Provide geotextile under all Riprap.
- B. Geotextile shall be non-woven, synthetic, UV resistant fabric.

2.2 RIPRAP

- A. Riprap shall conform to the following specification:
 - 1. Conforming to Section 72-2 of the CalTrans Standard Specifications
- B. Free of roots and other organic or deleterious matter.
- C. Hard and durable quarry stone free from fractures, bedding planes, pronounced weathering, and earth or other adherent coatings.
- D. Minimum Dimension of Individual Pieces: Not less than 1/3 maximum dimension.
- E. Abrasion Resistance: Maximum 35 percent wear as determined in accordance with ASTM C535.
- F. Bulk Density: Minimum 150 pounds per dry cubic foot.
- G. Gradation: Smaller pieces shall generally fill voids between larger pieces without either excess or deficiency of one or more sizes of stone.

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PART 3 - EXECUTION

3.1 PLACING RIPRAP

- A. Utilize power and hand tools to produce a subgrade that is true to the slope or grades indicated.
- B. Place geotextile prior to placing riprap. Overlap seams at least 24 inches.
- C. Place riprap as follows:
 - 1. Intermix different sizes of pieces to eliminate segregation and to fill voids between larger pieces with smaller pieces and work surface free from irregularities.
 - 2. Use placement and intermixing methods that avoid disturbing prepared subgrade or damaging existing facilities, completed Work, or adjacent property.

+ + END OF SECTION + +

SECTION 02770

ASPHALT CONCRETE PAVING

PART 1 - GENERAL

1.1 SUBMITTALS

A. Information Submittals:

1. Asphalt Concrete Mix Formula:

- a. Submit minimum of 15 days prior to start of production.
- b. Submittal to include the following information:
 - 1) Gradation and portion for each aggregate constituent used in mixture to produce a single gradation of aggregate within specified limits.
 - 2) Bulk specific gravity for each aggregate constituent.
 - 3) Measured maximum specific gravity of mix at optimum asphalt content determined in accordance with ASTM D2041.
 - 4) Percent of asphalt lost due to absorption by aggregate.
 - 5) Percentage of asphalt cement, to nearest 0.1 percent, to be added to mixture.
 - 6) Optimum mixing temperature.
 - 7) Optimum compaction temperature.
 - 8) Temperature-viscosity curve of asphalt cement to be used.

2. Test Report for Asphalt Cement:

- a. Submit minimum 10 days prior to start of production.
- b. Show appropriate test method(s) for each material and the test results.

3. Statement of qualification for independent testing laboratory.

4. Test Results:

- a. Mix design.
- b. Asphalt concrete core.
- c. Gradation and asphalt content of uncompacted mix.

1.2 QUALITY ASSURANCE

A. Qualifications:

1. Independent Testing Laboratory: In accordance with ASTM E329.
2. Asphalt concrete mix formula shall be prepared by approved certified independent laboratory under the supervision of a certified asphalt technician.

1.3 ENVIRONMENTAL REQUIREMENTS

- A. Temperature: Do not apply asphalt materials or place asphalt mixes when ground temperature is lower than 10 degrees C (50 degrees F) or air temperature is lower than 4 degrees C (40 degrees F). Measure ground and air temperature in shaded areas away from heat sources or wet surfaces.
- B. Moisture: Do not apply asphalt materials or place asphalt mixes when application surface is wet.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Asphalt Material: Conform to the following specification:
 - 1. Asphalt Material shall be a hot mix asphalt concrete, consisting of a mixture of mineral aggregate and paving asphalt conforming to Section 92 of the Caltrans Standard Specifications, PG 64-10.
 - 2. Seal coat material shall be conforming to Section 37 of the Caltrans Standard Specifications.

PART 3 - EXECUTION

3.1 GENERAL

- A. Traffic Control:
 - 1. In accordance with all applicable specification sections and laws.
 - 2. Minimize inconvenience to traffic but keep vehicles off freshly treated or paved surfaces to avoid pickup and tracking of asphalt.
- B. Driveways: Repave driveways from which pavement was removed. Leave driveways in as good or better condition than before start of construction.

3.2 LINE AND GRADE

- A. Provide and maintain intermediate control of line and grade, independent of underlying base, to meet finish surface grades and minimum thickness.
- B. Shoulders: Construct to line, grade, and cross-section shown.

3.3 PREPARATION

- A. Prepare subgrade as specified.
- B. Thoroughly coat edges of contact surfaces with emulsified asphalt or asphalt cement prior to laying new pavement. Prevent staining of adjacent surfaces.

3.4 PAVEMENT APPLICATION

- A. General: Place asphalt concrete mixture on approved, prepared base in conformance with this section.
- B. Pavement Mix:
 - 1. Prior to Paving:
 - a. Sweep primed surface free of dirt, dust, or other foreign matter.
 - b. Patch holes in primed surface with asphalt concrete pavement mix.
 - 2. Place asphalt concrete pavement mix in one single lift.
 - 3. Total Compacted Thickness: As shown on Drawings.
 - 4. Apply such that meet lines are straight and edges are vertical.
 - 5. Collect and dispose of segregated aggregate from raking process. Do not scatter material over finished surface.

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6. After placement of pavement, seal meet line by painting a minimum of 150 millimeters (6 inches) on each side of joint with cut-back or emulsified asphalt. Cover immediately with sand.
- C. Compaction: Roll until roller marks are eliminated and density of 92 percent of measured maximum density determined in accordance with ASTM D2041.
- D. Tolerances:
1. General: Conduct measurements for conformity with crown and grade immediately after initial compression. Correct variations immediately by removal or addition of materials and by continuous rolling.
 2. Completed Surface or Wearing Layer Smoothness:
 - a. Uniform texture, smooth, and uniform to crown and grade.
 - b. Maximum Deviation: 1/8 inch from lower edge of a 3.6-meter (12-foot) straightedge, measured continuously parallel and at right angle to centerline.
 - c. If surface of completed pavement deviates by more than twice specified tolerances, remove and replace wearing surface.
 3. Transverse Slope Maximum Deviation: 1/4 inch.
- E. Seal Coat:
1. General: Apply seal coat of paving grade or emulsified asphalt to finished surface at longitudinal and transverse joints, joints at abutting pavements, areas where asphalt concrete was placed by hand, patched surfaces, and other areas as directed by ENGINEER.
 2. Preparation:
 - a. Surfaces that are to be sealed shall be maintained free of holes, dry, and clean of dust and loose material.
 - b. Seal in dry weather and when temperature is above 2 degrees C (35 degrees F).
 3. Application:
 - a. Fill cracks over 1.5 millimeters (1/16 inch) in width with asphalt-sand slurry or approved crack sealer prior to sealing.
 - b. When sealing patched surfaces and joints with existing pavements, extend minimum 150 millimeters (6 inches) beyond edges of patches.

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SECTION 02810

IRRIGATION SYSTEM

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Work includes all labor, material, equipment, appliances, fixtures and tests necessary for a new operating landscape irrigation system as indicated on the Drawings and as specified herein.
- B. Work included in this Section:
 - 1. Preparation
 - 2. Installation
 - 3. Temporary repairs
 - 4. Field quality control
 - 5. Irrigation system operation demonstration
 - 6. Cleanup
 - 7. Site observation before acceptance
- C. All irrigation system work shall be in accordance with City of Roseville Recycled Water System Construction Standards and all associated requirements.
- D. Irrigation system shall be for use with City of Roseville Recycled Water System, including all requirements of ON-SITE RECYCLED WATER FACILITIES per section 141-12 of City of Roseville Recycled Water System Construction Standards.

1.2 SUBMITTALS

- A. Provide System Irrigation Plan for review by ENGINEER.
 - a. Irrigation system quantities shown on the Drawings are for estimation only. Provide the actual materials and equipment quantities.
 - b. Shop drawing showing proposed irrigation system location and depths of proposed system components.
 - c. List of all proposed materials and equipment to be used indicated by description, manufacturer and model number, if applicable. Include catalog cuts where applicable (see Materials and Equipment submittal requirements this section).
 - d. Written documentation that the irrigation system materials and equipment listed on the Drawings is available and in compliance with requirements herein and City standards. Any substitutions required due to unavailability must be requested in writing before confirmation of ordering.
 - e. A schedule identifying system component procurement, storage, and anticipated delivery dates for review and approval.
- 2. In addition to ENGINEER review of plan in accordance Section 01330 Submittal Procedures, CONTRACTOR's plan will be reviewed City of Roseville Parks and Recreation Department.
 - a. CONTRACTOR shall submit, upon request by ENGINEER, an additional submittal addressing City of Roseville Parks and Recreation Department submittal review comments and format requirements.

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- B. Materials and Equipment: Submit the data on the following materials and equipment in accordance with Section 01330, Submittal Procedures.
1. Pipe and fittings
 2. Pipe solvent and primer
 3. Wire
 4. Wire connectors
 5. Valves
 6. Valve boxes
 7. Drip emitters
 8. Irrigation controllers

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Use only new materials of brands and types noted on the Drawings, specified herein, or equals as approved by the Engineer
- B. Pipe and Fittings
1. All exposed irrigation pipe shall be Steel Pipe:
 - a. Galvanized standard weight schedule 40 steel water pipe complying with ASTM A53 with threaded, galvanized standard weight malleable iron fittings and/or couplings.
 2. All buried irrigation pipe shall be PVC Pipe:
 - a. Pipe: Schedule 40 Polyvinyl Chloride (PVC). Type I, Grade I or Class 12454-B conforming to ASTM D1784 and ASTM D1785.
 - b. Fittings: Schedule to match pipe above, ASTM D2466 and ASTM D2467 for socket weld type and Schedule 80 ASTM D2464 for threaded type.
 - c. Solvent socket weld except where connection to threaded valves and equipment may require future disassembly.
 - d. Solvent Cement: As recommended by the pipe and fitting manufacturer conforming to ASTM D2564.
- C. Valves and Valve Boxes
1. Shutoff valves: PVC ball valves:
 - a. Service: Water.
 - b. Features:
 - 1) Rated 150 psi at 73 degrees F
 - 2) ASTM D1784, Type I, Grade 1 polyvinyl chloride body, ball, and stem, end entry
 - 3) Double union design, solvent-weld socket ends
 - 4) EPDM or Teflon seat
 - 5) EPDM O-rings and stem seals
 - c. Manufacturers and Products:
 - 1) Nibco; Chemtrol Tru-Bloc.
 - 2) ASAHI/America; Duo-Bloc.
 - 3) Or Equal.
 2. Automatic control valves:
 - a. Electrically remote-control valves shall be Rain Bird PESB-D Series, or equal, size as noted on the Drawings. Valve shall include a pressure-regulating module.
 - b. Each valve for drip irrigation system shall also include a Rain Bird PRB-QKCHK-100 filter set immediately downstream of the control valve

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- c. Each electric remote control valve shall be provided with a PVC ball valve for manual flow adjustment
- 3. Valve Boxes
 - a. 12" x 17" x 12" deep rectangular box for electrical remote control valves as manufactured by Carson Products, Inc., Model 1419-12, with bolt-down cover, or approved equal.
- D. Sprinkler Heads and Drip Emitters
 - 1. Drip Emitters:
 - a. Rain Bird pressure-compensating modules, point-source emission devices, threaded inlet model PC-24, orange, 24 gph, or equal.
 - b. Set emitters on riser nipples
- E. Automatic irrigation controller
 - 1. The automatic controller shall be Irri-trol MC-4 4-station controller, or equal.
 - 2. Transformer input: 120 VAC, 60 Hz
 - 3. Transformer output: 24 VAC
 - 4. Enclosure:
 - a. Provide a vandal-resistant controller enclosure made of cold-rolled steel. Enclosure shall be Model No. SB-18CR, manufactured by V.I.T. Products, or equal.
 - b. Enclosure shall be painted with powder-coated finish, forest green color. Finish shall be applied by the enclosure manufacturer before delivery to the project site. Submit color sample for approval before ordering.
- F. Control Wiring
 - 1. Connections between the automatic controller and the electric control valves shall be made with direct burial copper wire, AWG-UF 600 volt.
 - 2. Control wire shall be a different color wire for each control valve. Common wire shall be white. Wire color shall be continuous over its entire length.
 - 3. Install wires in accordance with the valve manufacturer's specifications and wire charts.
 - 4. Wire size shall not be less than #14 gauge for control wires and no less than #12 gauge for common wire.
 - 5. Wire Splices shall be made with either Scotch-Lok #3576 "Connector Sealing Packs", Rain Bird "Snap Tite" wire connectors, or approved equal. Use one splice per connector sealing pack.
 - 6. Field wire splices between the automatic controller and the electrical control valves shall not be allowed without prior approval of Engineer.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Trenching
 - 1. Trenching shall be conducted in a manner that minimizes impacts on any retained vegetation.
 - 2. Excavate trenches straight and support pipe continuously on bottom of trench. Lay pipe to an even grade. Trenching excavation shall follow the layout as indicated on the Drawings.
 - 3. Cover: Provide the following minimum soil cover:
 - a. 18" for pressure supply lines
 - b. 12" for non-pressure lines

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- c. 18" for control wire
- d. 24" for sleeve pipe and conduit

B. Backfilling

- 1. Backfill material and compaction requirements shall conform to the requirements of Section 02300 and the pipe trench standard detail.

C. Irrigation Assemblies

- 1. Routine of irrigation lines as indicated on the Drawings is diagrammatic only. Install lines and various assemblies in such a manner as to conform to the Drawings.
- 2. At no time shall multiple assemblies be installed in plastic lines. Provide each assembly with its own outlet.
- 3. PVC pipe and fittings shall be thoroughly cleaned of dirt, dust and moisture before installation. Installation and solvent welding methods shall be as recommended by the pipe and fitting manufacturer.
- 4. On PVC to metal pipe connections, work the metal connections first. Teflon tape or approved equal shall be used on all threaded PVC to PVC and threaded PVC to metal joints. Apply a light wrench pressure only. Where threaded PVC connections are required, use threaded PVC adapters into which the pipe may be solvent welded.

D. Control Wire Installation

- 1. Wiring shall occupy the same trench and shall be installed along the same route as pressure supply or lateral lines, wherever possible.
- 2. Wiring shall be set at a minimum 6" distance from pipes.
- 3. Where more than one wire is placed in a trench, the wires shall be taped together at intervals of 10 feet.
- 4. An expansion curl shall be provided within 3 feet of each wire connection. Expansion curl shall be of sufficient length at each splice connection at each electric control valve so that in case of repair the valve bonnet may be brought to the surface without disconnecting the control wires. Control wires shall be laid loosely in the trench without stress or stretching control wire conductors.
- 5. When control wiring is trenched separately from main-line trenches, continuous warning tape shall be installed with the wiring.

E. Drip Irrigation

- 1. Install drip irrigation systems to adequately water the plant materials at locations shown on the Drawings and as prescribed herein.
- 2. The major portions of the irrigation system shall be installed before the installation of any plants. Irrigation of all plants shall begin the same day as plant installation and shall meet the requirements of this section.
- 3. All irrigation installation operations must be conducted in coordination with plant location field marking and planting hole excavation. Plant locations must be field marked and approved, and planting holes must be excavated before installation of individual drip emitters.
- 4. PVC piping and fittings shall connect drip nozzles to lateral line pipe. Provide the required couplings and fittings for emitter to pipe connections. All PVC lateral line piping shall be set below grade. At no time shall flexible tubing be used.
- 5. After its pipe installation is complete, each drip system shall first be flushed for 30 minutes minimum, to ensure that debris, rocks and dirt are removed. Ensure that all sites are being irrigated and that flow is continuous. The drip systems shall be capped while the system is still operating to ensure that no debris, rocks, or dirt enter the pipes. The drip systems shall then have the emitters installed.

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6. Drip emitters shall be set on grade at plant locations. Before installation, stake and mark the locations of the drip risers for approval by the Engineer. For all container plants, drip emitters shall be set within the planting basin. Provide 2 drip emitters per plant, offset 180-degrees.
7. Emitters shall be connected to the PVC piping at the individual planting locations. Emitters shall be installed while the system is operating to ensure that no debris enters the lines. The emitters shall be placed adjacent to the root crown after plant installation. After all the emitters have been installed on each run, that line shall be rechecked under pressure for leaks around the emitter or emitter coupler. Any leaks shall be repaired to ensure a fully-operational system.

F. Controller

1. Controller location shall be as shown on the Drawings.
2. The controller shall be installed according to the manufacturer's specifications inside the vandal-proof controller enclosure.
3. Connect all control wires from the valves
4. All wires required above ground shall be placed in metal conduits painted flat black.

3.2 TESTING

- A. Test pressure piping under hydrostatic pressure of 150 psi for a period of 2 hours. Testing of pressure pipe shall occur before installation of any electric control valves. Allowable leakage is specified in Section 15990.

3.3 IRRIGATION SYSTEM OPERATION DEMONSTRATION

- A. The entire irrigation system shall be under complete and automatic operation for a period of 7 days before beginning of planting.
- B. Operation will be witnessed by Engineer.

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SECTION 02830

CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings: Detailed information and specifications for materials, finishes, and dimensions.
- B. Samples: Approximately 6 inches square, or 6 inches long of posts, rails, braces, fabric, wire, ties, and fittings.
- C. Quality Control Submittals:
 - 1. Manufacturer's recommended installation instructions.
 - 2. Evidence of Supplier and installer qualifications.

1.2 SCHEDULING AND SEQUENCING

- A. Complete necessary site preparation and grading before installing chain link fence and gates.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Match style, finish, and color of each fence component with that of other fence components.

2.2 CHAIN LINK FENCE FABRIC

- A. PVC-coated galvanized fabric conforming to ASTM F668, Class 1 or 29.
 - 1. Color: Black.
 - 2. Manufacturers and Products:
 - a. Colorbond Corp., Raritan, NJ; Colorbond II.
 - b. Cyclone Fence, United States Steel, Chicago, IL; Cyclone Color Fence System.
- B. Height: 72 inches, unless otherwise shown.
- C. Wire Gauge: No. 9.
- D. Pattern: 2-inch diamond-mesh.
- E. Diamond Count: Manufacturer's standard and consistent for fabric furnished of same height.
- F. Loops of Knuckled Selvages: Closed or nearly closed with space not exceeding diameter of wire.
- G. Wires of Twisted Selvages:

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1. Twisted in a closed helix three full turns.
2. Cut at an angle to provide sharp barbs that extend minimum 1/4-inch beyond twist.

H. Privacy Slats:

1. HDPE or PVC Top Lock slats sized for No. 9 gauge 2-inch mesh, approximately 1 3/32-inches wide.
2. Length to match the fabric height minus 2 inches.
3. Color selected by OWNER.

2.3 POSTS

A. General:

1. Strength and Stiffness Requirements: ASTM F669, Heavy Industrial Fence, except as modified in this section.
2. Steel Pipe: ASTM F1083.
3. Roll-Formed Steel Shapes: Roll-formed from ASTM A570, Grade 45, steel.
4. Protective Coatings:
 - a. Zinc Coating: ASTM F1234, Type A external and internal coating.
5. Color Coating: ASTM F1043, minimum 10 mils thickness over zinc coating to match color of chain link fabric.

B. Line Posts:

1. Steel Pipe:
 - a. Outside Diameter: 2.375-inch.
 - b. Weight: 3.65 pounds per foot.
2. Roll-Formed Steel C Shape:
 - a. Outside Dimensions: 2.25-inch by 1.625-inch.
 - b. Weight: 2.70 pounds per foot.
3. Steel H-Section:
 - a. Outside Dimensions: 2.25-inch by 1.70-inch.
 - b. Weight: 3.26 pounds per foot.

C. End, Corner, Angle, and Pull Posts:

1. Steel Pipe:
 - a. Outside Diameter: 2.875-inch.
 - b. Weight: 5.79 pounds per foot.

D. Posts for Removable Fence Panels: As specified for end, corner, angle, and pull posts.

E. Posts for Swing Gates:

1. Material: ASTM F1043 Group IA ASTM F1083 schedule 40 pipe.
2. Gate Post Size per ASTM F900:

For gate fabric height up to and including 6 feet	
Gate Leaf Width	Post Outside Diameter
Up to 4 ft	2.375-inch
Over 4 ft to 10 ft	2.875-inch
Over 10 ft to 18 ft	4.0-inch
For gate fabric height over 6 feet to 12 feet	
Up to 6 ft	2.875-inch
Over 6 ft to 12 ft	4.0-inch
Over 12 ft to 18 ft	6.625-inch
Over 18 ft to 24 ft	8.625-inch

- a. Roll-formed steel shapes may be substituted for steel pipe posts for gate leaf widths up to 6 feet and fabric heights up to 8 feet.
 - 1) Outside Dimensions: 3.5-inch by 3.5-inch.
 - 2) Weight: 4.85 pounds per foot.

2.4 TOP RAILS AND BRACE RAILS

- A. Galvanized steel pipe or roll-formed steel C shapes, color-coated.
- B. Protective Coatings: As specified for posts.
- C. Color Coating: ASTM F1043, minimum 10 mils thickness over zinc coating to match color of chain link fabric.
- D. Strength and Stiffness Requirements: ASTM F669, Top Rail, Heavy or Light Industrial Fence.
- E. Steel Pipe:
 - 1. ASTM F1083.
 - 2. Outside Diameter: 1.66-inch.
 - 3. Weight: 2.27 pounds per foot.
- F. Roll-Formed Steel C Shapes:
 - 1. Roll formed from ASTM A570, Grade 45.
 - 2. Outside Dimensions: 1.625-inch by 1.25-inch.
 - 3. Weight: 1.40 pounds per foot.

2.5 FENCE FITTINGS

- A. General: In conformance with ASTM F626, except as modified by this article.
- B. Post and Line Caps: Designed to accommodate passage of top rail through cap, where top rail required.
- C. Tension and Brace Bands: No exceptions to ASTM F626.
- D. Tension Bars:
 - 1. One-piece.
 - 2. Equal in length to full height of fabric.
- E. Truss Rod Assembly: 3/8-inch diameter.
- F. Barb Arms: 45-degree arms for supporting three strands of barbed wire.

2.6 TENSION WIRE

- A. Zinc-coated steel marcelled tension wire conforming to ASTM A824, Type II, Class 2.

2.7 GATES

- A. General:
 - 1. Gate Operation: Opened and closed easily by one person.

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2. Welded Steel Joints: Paint with zinc-based paint.
 3. Chain Link Fabric: Attached securely to gate frame at intervals not exceeding 15 inches.
- B. Swing Gates: ASTM F900.
1. Hinges:
 - a. Furnished with large bearing surfaces for clamping in position.
 - b. Designed to swing either 180 degrees outward, 180 degrees inward, or 90 degrees in or out, as shown, and not twist or turn under action of gate.
 2. Latches: Plunger bar arranged to engage stop, except single gates of openings less than 10 feet wide may each have forked latch.
 3. Gate Stops: Mushroom type or flush plate with anchors, suitable for setting in concrete.
 4. Locking Device and Padlock Eyes: Integral part of latch, requiring one padlock for locking both gate leaves of double gates.
 5. Hold-Open Keepers: Designed to automatically engage gate leaf and hold it in open position until manually released.
- C. Fabric Salvage: Knuckled.
- D. Appurtenances and Framework: As specified.

2.8 REMOVABLE FENCE PANELS

- A. Panel Length:
1. Equal division of total length of removable fence section.
 2. Maximum 10 feet.
- B. Frames: ASTM F1184, Type I.

2.9 CONCRETE

- A. Provide as specified in Section 03300, CAST-IN-PLACE CONCRETE.

PART 3 - EXECUTION

3.1 GENERAL

- A. Install chain link fences and gates in accordance with ASTM F567, except as modified in this section, and in accordance with fence manufacturer's recommendations, as approved by ENGINEER. Erect fencing in straight lines between angle points.
- B. Provide all necessary hardware for a complete fence and gate installation.

3.2 PREPARATION

- A. Establish locations of fence lines, gates, and terminal posts.

3.3 POST SETTING

- A. Driven posts are not acceptable.

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- B. Post Hole Depth:
 - 1. Minimum 3 feet below finished grade.
 - 2. 2 inches deeper than post embedment depth below finish grade.
- C. Backfill post holes with concrete to 2 inches above finished grade.
- D. Before concrete sets, crown and finish top of concrete to readily shed water.

3.4 BRACING

- A. Brace gate and corner posts diagonally to adjacent line posts to ensure stability.

3.5 TOP RAILS

- A. Install top rail sleeves with springs at 105 feet maximum spacing to permit expansion in rail.

3.6 CHAIN LINK FABRIC

- A. Do not install fabric until concrete has cured minimum 7 days.
- B. Install fabric with twisted and barbed selvage at top.

3.7 GATES

- A. Hang gates and adjust hardware so gates operate satisfactorily from open or closed position.
- B. Set gate stops in concrete to engage center drop rod or plunger bar.

3.8 ELECTRICAL GROUNDING

- A. Ground fences in accordance with applicable requirements of IEEE C2, National Electrical Safety Code.

3.9 FIELD QUALITY CONTROL

- A. Gate Tests: Prior to acceptance of installed gates and gate operator systems, demonstrate proper operation of gates under each possible open and close condition specified.

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SECTION 02850

FABRICATED STEEL GATES AND OPERATORS

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings: Detailed drawings, information and specifications for materials, finishes, and dimensions.
- B. Quality Control Submittals:
 - 1. Manufacturer's recommended installation instructions.
 - 2. Evidence of Supplier and installer qualifications.

1.2 SCHEDULING AND SEQUENCING

- A. Complete necessary site preparation and grading before installing fabricated steel gates and operators.

PART 2 - PRODUCTS

2.1 FABRICATED STEEL GATES

- A. Fabricate steel access gates and person gates as shown on the Drawings.
- B. Shop fabricate steel gates and deliver to site completely finished and painted.
 - 1. Clean all weld residue and grind welds smooth prior to painting.
 - 2. Paint with System 300, as described in Section 09900 PAINTING.
- C. Steel Frame: Provide steel fabricated in accordance with Section 05500 MISCELLANEOUS METALS.
- D. Metal Panel:
 - 1. Galvanized steel sheet meeting ASTM A653, G-60. Provide profile and thickness shown on the Drawings.

2.2 FABRICATED STEEL GATE OPERATORS

- A. Provide gate operators as shown on the Drawings, suitable for operation of the gates, as shown on the drawings.
- B. Features:
 - 1. Motor: 1 HP, 460 volt, three phase, 60 Hz. Provide size "O" contactor type magnetic starter, reversing, prewired with overcurrent and overload protection.
 - 2. Speed Reduction: Heavy duty sprockets, belt and drive chain, permanently lubricated.
 - 3. Housing: Heavy gage, weather-resistant, lockable, galvanized steel, NEMA 3R enclosure.
 - 4. Drive Chain: No. 50 minimum. Provide all mounting hardware required to connect to gate.

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5. Safety Clutch: Adjustable friction type, designed to slip if gate meets obstruction.
6. Magnetic Brake: Solenoid activated disc type, designed to reduce gate coasting.
7. Emergency Operation: Manual no tool disconnect in case of power failure.
8. Limit Switches: Adjustable rotary type, full-open and full-closed limit switches.
9. Audible Warning: Provide audible warning signal during gate operation, suitable for outdoor installation.
10. Capable of operating 1200 pound gate.

C. Controls:

1. All controls shall be suitable for operation of a 120 volt, single phase, 60 hertz power supply. Provide a fused 480/120 volt transformer, 125 percent sized, to provide power to all controls and devices. Provide all controls, transformers, relays and other equipment as necessary for a complete and functional system installed in a NEMA 3R enclosure.
2. Gate operators shall be controlled as follows:
 - a. Local Operation Station: Provide key-operated local operation station, mounted on wall outside of gate location.
 - b. Time Delay System: Close on entry after set time delay.
 - c. Magnetic Vehicle Detectors: Automatic open on vehicle exit.
3. Manufacturer of the automatic gate operators and controls shall provide a "total system" with all accessories required to operate according to the following:
 - a. Magnetic "loop" vehicle ejector shall prevent premature gate closure. The vehicle detection system shall hold the gate in an open position until the vehicle clears the gate area. When the vehicle clears the gate area, the gate operator shall automatically close the gate, after a pre-set period, adjustable from 3 to 90 seconds. Should the gate be closing as a vehicle reaches the gate area, the gate shall automatically reverse to the open position and the timer shall reset for a full time cycle.
 - b. Provide maximum run timer to limit time of operation in any one direction to a maximum of 90 seconds and to delay reversal of gate 1.5 seconds when signaled from magnetic vehicle detection system.

D. Product and Manufacturer:

1. Model 570 for cantilever sliding gate, with all accessories and controls required to provide operation described herein by Stanley Vemco Division of the Stanley Works.
2. Model LSG for cantilever sliding gate, with all accessories and controls required to provide operation described herein by Robot Industries, Incorporated.
3. Or equal.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install all gates level, plumb and in-line for smooth operation.
- B. Install gate operators to provide smooth operation of gate, as described above.
- C. Provide all miscellaneous fittings and accessories required for a complete installation of all gates.
- D. Provide padlock hasps for all gates, attached to adjacent fencing to provide for a secure gate system utilizing OWNER's padlocks.

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- E. Touch up all damaged paint after installation.

3.2 FIELD QUALITY CONTROL

- A. Gate Tests: Prior to acceptance of installed gates and gate operator systems, demonstrate proper operation of gates under each possible open and close condition specified.

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SECTION 02900

LANDSCAPE PLANTING

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Furnish all materials, labor, transportation, services, and equipment necessary to install landscape planting as shown on the Drawings and as specified herein. Any and all permits, fees, bonds, and observations necessary to perform and complete portion of the work shall be included.
- B. Work included in this Section:
 - 1. Verification of Existing Conditions
 - 2. Surface Drainage of Planting Areas
 - 3. Preparation
 - 4. Plant Installation
 - 5. Watering
 - 6. Cleanup
 - 7. Site Observation Before Acceptance
 - 8. Site Observation Schedule

1.2 REQUIREMENTS OF REGULATORY AGENCIES

- A. All Federal, State, and local laws and regulations governing this work are hereby incorporated into and made part of this Section. When this Section calls for certain materials, workmanship or a level of construction that exceeds the level of Federal, State, or local requirements, the provisions of this Section shall take precedence.

1.3 REFERENCE STANDARDS

- A. All plant material shall be true to botanical and common name as indicated in:
 - 1. McClintock, E. M., and A. T. Leiser. 1979. *An Annotated Checklist of Woody Ornamental Plants of California, Oregon, and Washington*. University of California, Division of Agricultural Sciences. Berkeley, CA.
 - 2. American Nursery & Landscape Association. 2004. *American Standard for Nursery Stock*. ANSI Z60.1-2004. Washington, DC.
 - 3. L. H. Bailey Hortorium of Cornell University. 1976. *Hortus Third: A Concise Dictionary of Plants Cultivated in the United State and Canada*. Macmillan. New York, NY.
 - 4. Hickman, J.C. (ed.). 1993. *The Jepson Manual: Higher Plants of California*. University of California Press. Berkeley, CA.
 - 5. U.S. Natural Resources Conservation Service. 2011. Plants Database. Available: <<http://plants.usda.gov>>. Last updated May 16, 2011.
- B. All plant material shall conform to the California State Department of Agriculture's regulations for nursery observations, rules and ratings.
 - 1. Quality Control
- C. Manufacturer's directions and drawings shall be followed in all cases where the manufacturers of articles used in this Specification furnish directions covering points not shown in the Drawings and Specifications.

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- D. Upon execution of the order, the Engineer has the option of either inspecting the plant material at the nursery, requesting representative color photos or inspecting the material as it is being delivered to the site for conformity to the Drawings and Specifications.
 - 1. Such approvals shall not impair the right of additional observations during further progress of the Work.
- E. Any tagging of plant material by the Engineer does not constitute his/her approval of the plant materials' health and vigor. The health and vigor of the plant material is the sole responsibility of the Contractor.
- F. The Engineer reserves the right to refuse observation, if in his judgment; a sufficient quantity of plant material is not available for observation at that time.
- G. All planting shall be for use with City of Roseville Recycled Water System as irrigation water source.

1.4 QUALIFICATIONS

- A. The nursery that supplied planting materials shall be a reputable nursery.

1.5 SUBMITTALS

- A. Provide Planting Plan for review by ENGINEER.
 - 1. Submittal shall include at minimum the following:
 - a. List of all proposed materials and equipment to be used indicated by description, manufacturer and model number, if applicable. Include catalog cuts where applicable.
 - b. A copy of the plant procurement order from the nursery including the name, address, and phone number of said nursery.
 - c. Plant quantity list.
 - d. Plant quantities shown on the Drawings are for estimation only. Provide the actual planting quantities.
 - e. List all plants indicated by botanical name, common name, quantity, size, nursery and location and any specific remarks, (e.g., "unable to locate," "photo submitted," etc.).
 - f. Written documentation that the plant material listed on the Drawings is available. Any substitutions required due to unavailability must be requested in writing before confirmation of ordering.
 - g. A schedule identifying plant procurement, storage, and anticipated delivery dates for review and approval.
 - h. Compliance with State of California and federal quarantine restrictions.
 - 2. In addition to ENGINEER review of plan in accordance Section 01330 Submittal Procedures, CONTRACTOR's plan will be reviewed City of Roseville Parks and Recreation Department.
 - 3. CONTRACTOR shall submit, upon request by ENGINEER, an additional submittal addressing City of Roseville Parks and Recreation Department submittal review comments and format requirements.

1.6 PROJECT CONDITIONS

- A. Perform planting operations only when weather and soil conditions are suitable in accordance with locally accepted practice.

1.7 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Delivery
 - 1. Deliver all planting materials with legible and durable identification labels.
 - 2. Deliver fertilizer to the site in original, unopened containers bearing the manufacturer's name, guaranteed chemical analysis, and its conformance to California State Law.
 - 3. Notify the Engineer within 7 days of the delivery of plant materials to the site. Indicate the quantity and type of plant materials in each delivery.
- B. Storage
 - 1. Store planting materials in the shade and protect from the weather.
 - 2. Maintain and protect plants not planted within 4 hours of delivery.
- C. Protection
 - 1. Protect plants during delivery to the site and after, in order to prevent damage to the root balls or desiccation of leaves.
- D. Handling
 - 1. Take extreme care in the loading and unloading of plants. Do not lift or move container plants by their stems or trunks.
 - 2. Any plant materials that are damaged due to mishandling shall be removed and replaced with new material at no additional cost.

1.8 REJECTION OF PLANT MATERIAL

- A. All plant material not conforming to the requirements herein shall be considered defective.
 - 1. The Engineer shall mark such plants, whether in place or not, as rejected and the materials shall be immediately removed from the site and replaced with new material at no additional cost.
 - 2. Replacement plant material shall be of the same size, species and condition as that indicated on the Drawings.

1.9 PROTECTION OF THE SITE

- A. Protect previously installed work and materials which may be affected by work of this Section. Provide safeguards and exercise caution against injury or defacement of existing site improvements.
- B. Repair damage and return the areas to the previous condition at no additional cost.

1.10 COORDINATION

- A. Coordinate operations with other contractors on or adjacent to the project site.

- B. Exercise extreme care in excavating and working near existing utilities. Repair any damages to these utilities at no additional cost. Check existing utility drawings for existing utility locations.
- C. Coordinate installation of all planting materials to avoid interference with utilities, other construction elements, and any existing vegetation.

1.11 GUARANTEE

- A. The manufacturer's warranty shall not relieve the Contractor of its own liability under the guarantee. Such warranties shall only supplement the guarantee.
- B. All plant material installed under this Contract shall be guaranteed against poor, inadequate and inferior quality and installation for a period of 1 year from the date of Final Acceptance.
 - 1. Any plant material not meeting the satisfaction of the Engineer as per the performance standards in Section 02970, Landscape Maintenance, shall immediately be removed and replaced at no cost to the Owner.
 - 2. Replaced plant material shall also be guaranteed for a period of 1 year upon installation.
- C. Replace without cost to the Owner and as soon as weather permits, all dead plants and all plants not found in a vigorous, thriving condition, as determined by the Engineer during and at the end of the plant warranty period.
 - 1. Replacement of plants shall closely match adjacent specimens of the same species and shall be subject to all requirements of this section.
- D. Repair damage to adjacent plant material at no cost to the Owner. All repairs shall be made with materials, varieties and sizes "in kind" with adjacent existing materials.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Procure all plant materials and incidentals required for this project.
- B. All plant material delivered to the site shall have a normal habit of growth and be well formed and shaped, healthy, vigorous, and free of any insects, diseases, sunscalds, windburn, abrasions of the bark, or other objectionable disfigurements.
- C. The size of the plant material shall correspond with that normally expected for species and variety of commercially available nursery stock or as specified on the Drawings.
- D. Plant material shall be grown under climatic conditions similar to those in the locality of the project unless approved otherwise by the Engineer.
- E. Plant material larger than that specified on the Drawings may be used pending approval from the Engineer. However, there will be no change in the Contract amount if the larger plant material is approved and used.

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2.2 MATERIALS

- A. Planting soil and backfill for all planting pits shall be existing topsoil.
- B. Trees and Shrubs
 - 1. Tree and shrub trunks shall be sturdy and well hardened with vigorous and fibrous root systems which are not root-bound.
 - 2. In the event of a disagreement as to the condition of the root system, the root conditions of the plants will be determined by the removal of soil around the roots of not less than 10 plants or more than 2 percent of the total number of plants of each species.
 - 3. When container-grown plants are supplied from several sources, the roots of not less than 10 plants of each species from each source will be observed.
 - a. In case the plants sampled are found to be defective, the Engineer has the right to reject the entire lot represented by the defective sample.
 - b. Any plant material rendered unsuitable for use because of this observation will be considered as samples and will be provided at no additional cost.
- C. Container-Grown Stock
 - 1. Container-grown stock shall be in a vigorous and healthy condition and not root bound or with the root system hardened off.
 - a. Container-grown stock shall be grown under climatic conditions similar to that found in the locality of the site.
- D. Ground Cover Stock
 - 1. Ground cover stock shall be well-established in removable containers or come from formed homogenous soil sections.
 - 2. Ground cover stock shall be grown under climatic conditions similar to that found in the locality of the site.
- E. Fertilizers
 - 1. Planting Tablets (20-10-5), shall be 21-gram, 24-month release, non-burning tablets containing the following percentages of nutrients by weight:

20 percent	Nitrogen
10 percent	Phosphoric Acid
5 percent	Potash
10 percent	Humus
2 percent	Humic Acids
 - 2. Acceptable product – “Gro-Power Planting Tablets,” as manufactured by Gro-Power (800/473-1307), or approved equal.

2.3 TREE SUPPLIER

- A. Trees shall be provided from a local nursery.
 - 1. Green Acres
 - 2. Mallard Creek
 - 3. Or approved equal

PART 3 - EXECUTION

3.1 VERIFICATION OF EXISTING CONDITIONS

- A. Before performing the work in this Section, examine previously installed work from other trades and verify that such work is complete and as required to the point where this installation may begin properly.
- B. Remove all rocks, stones, sticks and debris larger than 1-inch in diameter from the surface of the planting areas.
- C. Obtain approval of fine grading by the Engineer before starting planting operations.

3.2 SURFACE DRAINAGE OF PLANTING AREAS

- A. Ensure proper drainage of all planting areas. Any discrepancy in the Drawings or Specifications, obstructions on the site, or prior work done by another contractor, which could preclude the establishment of proper drainage, shall be brought to the immediate attention of the Engineer for correction or relief of said responsibility.

3.3 PREPARATION

- A. Planting Layout
 - 1. Verify with the Owner's site superintendent and local governing agencies the location and depth of all underground utilities.
 - 2. If any underground construction or utility lines are encountered in the excavation of planting holes, alternative planting locations may be selected by the Engineer.
 - 3. Locations for all shrubs and trees shall be marked on the ground either by flagged grade stakes indicating plant type and size or the actual plants themselves for the Engineer's review and approval before planting. Trees and shrubs will be located according to the layout shown on the Drawings.
 - 4. Groundcover plant locations shall be in straight rows, evenly, triangular spaced, and at the on-center spacing indicated on the Drawings.
- B. General Planting Guidelines
 - 1. Plant only as many plants as can be planted and watered on that same day within a given planting area.
 - 2. Protect the planting area from excessive vehicle compaction.
 - 3. Face plant material with fullest growth into the prevailing wind and/or the primary direction of view.
- C. Container Removal
 - 1. Plant container shall be opened and removed in such a manner that the soil surrounding the rootball shall not be broken.
 - 2. Do not injure the root ball while removing the container. After removing plant, superficially cut edge roots with a knife on 3 sides.

3.4 PLANT INSTALLATION

- A. Excavate planting pit 12 inches below the bottom of the rootball and to a diameter of twice the diameter of the rootball. Planting pits shall have vertical sides and roughened surfaces.

- B. Before planting, place the required amount of planting tablets per plant size on top of each root ball while the plants are still in their containers so that the Engineer can easily verify their existence and quantity.
- C. After obtaining approval by the Engineer on plant tablet quantity and after water has completely drained from the planting pit, add plant tables to the planting pits in the following quantities:

1-gallon	1 tablet
5-gallon	3 tablets
15-gallon	5 tablets
24-inch box	5 tablets

Place the specified amount of plant tablets between the bottom of the rootball but not higher than 1/3 of the way up the rootball. Space the plant tablets equally around the perimeter of the rootball approximately 2 inches from the rootball.

- D. Center plant material in the planting pit.
- E. Apply backfill mix to the planting pit up to ½ the height of the rootball. Add water to the top of the remaining planting pit and let soak in before completing remainder of backfilling. Finish backfilling with planting soil of the planting pit by tamping the soil firmly around the rootball and watering thoroughly.
- F. Each rooted ground cover plant shall be planted with its proportional amount of soil.
- G. Water Retention Basins
 - 1. After final backfilling, construct a water retention basin around the base of each tree and shrub planting (only) to a 30-inch diameter with backfill mix sufficient to hold 3-inches of water. Water retention basins are not required for groundcover plantings.
- H. Wood Mulch Topdressing
 - 1. Spread a 2-inch deep layer of wood mulch in all tree, shrub, and ground cover planting pits, not including seeding areas.
- I. Plant Settling
 - 1. Any plant material that has settled deeper than the surrounding grade shall be raised to the correct level.

3.5 WATERING

- A. All planting and seeding areas shall be watered immediately after installation. After the first watering, water shall be applied to all plants and seeded areas as conditions may require keeping the vegetation in a healthy and vigorous growing condition until the completion of the Contract.

3.6 CLEANUP

- A. Remove all trash caused from the work on a weekly basis throughout the duration of the Project.

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- B. Upon completion of work under this Section, remove all rubbish, waste and debris to an off-site location or as directed by the Engineer.
- C. Repair all scars, ruts or other marks in the ground caused by the work.

Remove all equipment and implements of service, and leave the entire work area in a neat and clean condition as accepted by the Engineer. All sidewalks and other paving areas shall receive a broom-clean treatment.

3.7 SITE OBSERVATION BEFORE ACCEPTANCE

- A. Corrective actions shall be in strict conformance with the Drawings and these Specifications and according to the Engineer, and shall be completed at the Contractor's expense.
- B. The Engineer will perform progress observations of the work and construction operations on completion of construction stages. The Engineer, the Contractor, and others designated by the Owner shall be agreed upon the construction stages for this Specification before starting work and be present on mutually agreed-on dates for the observations for each stage.
- C. If, after an observation, the Engineer is satisfied with the construction to date and its conformance to the Drawings and Specifications, the Engineer will grant written notice of provisional acceptance for that construction stage.
- D. If, after an observation, the Engineer is dissatisfied with the construction to date and its conformance to the Drawings and the Specifications, the Engineer will prepare a written punch list of necessary corrective action on defective work for the construction stage. All corrections must be completed and will be reobserved by the Engineer within 10 working days from the date of the initial observation.
- E. Project observations shall not occur until all punch list items from previous observations shall not occur until all punch list items from previous observations are corrected. Failure to correct problems in the time specified by the Engineer may result in a delay of payment for the said tasks until the items in question are remedied per the engineer's direction.
- F. The Contractor shall be charged for any additional construction observations and punch lists required from the Engineer for unscheduled and necessary reobservation of the work due to unsatisfactorily or incompletely addressing previous punch lists.

3.8 SITE OBSERVATION SCHEDULE

- A. Provide the Engineer with 48 hours of advance notification, except as otherwise noted, for required stage acceptance observations including, but not limited to, the following:
 - 1. Plant materials at nursery(s) before delivery to project site.
 - 2. Plant materials after delivery to project site and before planting.
 - 3. Plant locations layout before planting pit excavation.
 - 4. Planting operations, one complete installation of each plant size before installation of remaining plants.
 - 5. Progress container planting operations.
 - 6. Completed container planting operations.
 - 7. Progress seeding operations.

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8. Completed seedling operations.
9. Substantial Completion Observation: Final installation observation before the start of the Landscape Maintenance Period (provide 10 working days of advance written notice).

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SECTION 02936

HYDROSEEDING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This specification includes hydroseeding areas indicated and maintaining seeded areas until acceptance of the Work.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Topsoil: Furnish from the project site, Topsoil shall be reasonably free from subsoil, refuse, heavy or stiff clay, stones larger than one inch in size and other deleterious substances. Break all lumps and clods before the soil is spread.
- B. Erosion control slurry: A hydromulch type consisting of the following ingredients per acre:

Water	3,000 gal.
Fertilizer	320 lbs.
Seed	50 lbs.
Fiber	1,500 lbs.
Stabilizer	100 lbs.

- C. Commercial fertilizers: Conform to the requirements of the California Food and Agricultural Codes uniform in composition with the guaranteed chemical analysis of 16-20-0. Soluble potash shall be a form that will rapidly dispense in the slurry; Sentinel by Albright and Towne; or equal.
- D. Seed:
1. Seed: Latest crop, tagged and labeled in sealed containers in accordance with California Food and Agricultural Code. Pure live seed content shall exceed 90 percent for each variety specified and less than 0.5 percent weed seed. The seed mix shall consist of the following quantities and types per acre:

<u>Seed Name</u>	<u>Lbs./Acre</u>
Blando brome grass	30
Palestine orchard	6
Zorro annual foxtail	2
Rose clover	34
Alfalfa	10

- E. Fiber mulch: Green colored, fibrous, wood cellulose mulch containing no growth or germination inhibiting factors. Mulch shall, after addition and agitation in slurry tanks with fertilizer, seed, water, and other approved additives, uniformly suspend fibers to form a homogeneous slurry; and when hydraulically sprayed on the ground, the material will form a blotter-like ground cover impregnated uniformly with seed. After

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application, mulch shall allow the absorption of moisture and allow the rainfall to percolate to underlying soil.

1. Cellulose: Certified to indicate laboratory and field testing has been accomplished and that it meets all foregoing requirements. Weight specifications from suppliers and for application shall be the air dry weight of the fiber material.
 2. Absolute air dry weight is based on the normal standards of the Technical Association of the Pulp and Paper Industry for wood cellulose and is considered equivalent to 10 percent moisture. Each package of the cellulose fiber shall be marked by the manufacturer to show the air dry weight content.
- F. Stabilizing agent: A mixture of 100 percent organic, water soluble alginic acids derived from cold-water keeps.

PART 3 - EXECUTION

3.1 PREPARATION AND APPLICATION

- A. Restore all areas damaged by erosion, construction activities, or other causes before beginning hydroseeding activities. Restoration shall include filling depressions and gullies, establishing level grades and slopes, and compacting soils to prevent wind erosion. Only native fill shall be used for restoration.
- B. Place and spread native fill a minimum depth of three inches over the areas shown to be hydroseeded, except that sloped areas greater than 1 horizontal to 2 vertical shall not receive this native fill.
- C. The equipment for application of erosion control slurry shall have a minimum tank capacity of 500 gallons, a built-in agitation system of sufficient operating capacity to produce an homogeneous slurry, and a discharge system with a set of spray nozzles which will deliver slurry to the areas to be seeded in a continuous and uniform rate, without misses, waste or erosion. Slurry distribution lines shall be large enough to prevent stoppage and the equipment shall be capable of being propelled.
- D. Prepare slurry at the Project site. Fill the tank with water to the quarter mark and agitate well before adding seed and fertilizer. Agitate slurry during mixing period to assure fast, homogeneous mixing, but seed shall not be added more than twenty minutes before spraying. Continue agitation at one-half optimum rpm until all material is dispersed.
- E. Using the green color of the mulch as a guide, apply slurry in sweeping motions in an arched stream so as to fall like rain. Allow materials to build on each other until a good coat is achieved and slurry is spread at the required rate per acre. In areas difficult to reach, apply in a more controlled manner.
- F. Should slurry cover any object not to be covered, wash with clear water immediately. Apply slurry as soon as practicable on cut slopes; apply to filled and graded areas as directed by the Engineer. Slurry shall not be applied during rain or high wind conditions.

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3.2 TIMING

- A. Time for hydroseeding shall be scheduled so that seed will be planted in time for the first germination-causing rain. Unless approved by Engineer, planting shall be not earlier than October 15 nor later than October 31.

3.3 MAINTENANCE

- A. Maintenance shall include repair of erosion, replacement of mulch, and incidental work necessary.
- B. CONTRACTOR to hydroseed and then maintain and water it until confirmed that it germinates with two-week, four-week, six-week and eight week germination field checks by owner representative with contract representative present. CONTRACTOR required to maintain hydroseeding through the confirmation of documented germination.

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SECTION 02950

BIORETENTION AREA

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. Furnish all materials, labor, transportation, services, and equipment necessary to install areas as shown on the Drawings and as specified herein.
- B. Work included in this Section:
 - 1. Procurement of materials
 - 2. Construction of areas
- C. If there is a conflict between Section 02950 herein and other Codes or portions of the Contract Documents, the provisions of Section 02950 shall take precedence.
 - 1. Reference Section 02300, Earthwork, for additional earthwork requirements.
 - 2. Reference Section 02900, Landscape planting, for additional planting requirements.
 - 3. Reference Section 15100, Pipe and Fittings, for additional drainage pipe requirements.

1.2 REQUIREMENTS OF REGULATORY AGENCIES

- A. All Federal, State, and local laws and regulations governing this work are hereby incorporated into and made part of this Section. When this Section calls for certain materials, workmanship or a level of construction that exceeds the level of Federal, State, or local requirements, the provisions of this Section shall take precedence.

1.3 REFERENCE STANDARDS

- A. West Placer Storm Water Quality Design Manual, Latest Edition.

1.4 SUBMITTALS

- A. Submit in accordance with Section 01330:
 - 1. List of all proposed materials and equipment to be used indicated by description, manufacturer and model number, if applicable. Include catalog cuts where applicable.
 - 2. A copy of the plant procurement order from the nursery including the name, address, and phone number of said nursery.
 - 3. Plant quantity list.
 - a. List all plants indicated by botanical name, common name, quantity, size, nursery and location and any specific remarks, (e.g., "unable to locate," "photo submitted," etc.).
 - 4. Written documentation that the plant material listed on the Drawings is available. Any substitutions required due to unavailability must be requested in writing before confirmation of ordering.
 - 5. A schedule identifying plant procurement, storage, and anticipated delivery dates for review and approval.
 - 6. Compliance with State of California and federal quarantine restrictions.
- B. Bioretention Soil Mix

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1. Samples: Submit a 1-gallon bag of soil mix.

1.5 PROJECT CONDITIONS

- A. Perform construction and planting operations only when weather and soil conditions are suitable in accordance with locally accepted practice.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Delivery
 1. Deliver all planting materials with legible and durable identification labels.
 2. Notify the Engineer within 7 days of the delivery of plant materials to the site. Indicate the quantity and type of plant materials in each delivery.
- B. Storage
 1. Store planting materials in the shade and protect from the weather.
 2. Maintain and protect plants not planted within 4 hours of delivery.
- C. Protection
 1. Protect plants during delivery to the site and after, to prevent damage to the root balls or desiccation of leaves.
- D. Handling
 1. Take extreme care in the loading and unloading of plants. Do not lift or move container plants by their stems or trunks.
 2. Any plant materials that are damaged due to mishandling shall be removed and replaced with new material at no additional cost.

1.7 REJECTION OF PLANT MATERIAL

- A. All plant material not conforming to the requirements herein shall be considered defective.
 1. The Engineer shall mark such plants, whether in place or not, as rejected and the materials shall be immediately removed from the site and replaced with new material at no additional cost.
 2. Replacement plant material shall be of the same size, species and condition as that indicated on the Drawings.

1.8 PROTECTION OF THE SITE

- A. Protect previously installed work and materials which may be affected by work of this Section. Provide safeguards and exercise caution against injury or defacement of existing site improvements.
- B. Repair damage and return the areas to the previous condition at no additional cost.

1.9 GUARANTEE

- A. The manufacturer's warranty shall not relieve the Contractor of its own liability under the guarantee. Such warranties shall only supplement the guarantee.

- B. All plant material installed under this Contract shall be guaranteed against poor, inadequate and inferior quality and installation for a period of 1 year from the date of Final Acceptance.
 - 1. Any plant material not meeting the satisfaction of the Engineer as per the performance standards in Section 02970, Landscape Maintenance, shall immediately be removed and replaced at no cost to the Owner.
 - 2. Replaced plant material shall also be guaranteed for a period of 1 year upon installation.
- C. Replace without cost to the Owner and as soon as weather permits, all dead plants and all plants not found in a vigorous, thriving condition, as determined by the Engineer during and at the end of the plant warranty period.
 - 1. Replacement of plants shall closely match adjacent specimens of the same species and shall be subject to all requirements of this section.
- D. Repair damage to adjacent plant material at no cost to the Owner. All repairs shall be made with materials, varieties and sizes "in kind" with adjacent existing materials.

PART 2 - PRODUCTS

2.1 PLANTS

- A. General
 - 1. Procure all plant materials and incidentals required for this project.
 - 2. All plant material delivered to the site shall have a normal habit of growth and be well formed and shaped, healthy, vigorous, and free of any insects, diseases, sunscalds, windburn, abrasions of the bark, or other objectionable disfigurements.
 - 3. The size of the plant material shall correspond with that normally expected for species and variety of commercially available nursery stock or as specified on the Drawings.
 - 4. Plant material shall be grown under climatic conditions similar to those in the locality of the project unless approved otherwise by the Engineer.
 - 5. Plant material larger than that specified on the Drawings may be used pending approval from the Engineer. However, there will be no change in the Contract amount if the larger plant material is approved and used.
- 6. Trees and Shrubs
 - a. Tree and shrub trunks shall be sturdy and well hardened with vigorous and fibrous root systems, which are not root-bound.
 - b. In the event of a disagreement as to the condition of the root system, the root conditions of the plants will be determined by the removal of soil around the roots of not less than 10 plants or more than 2 percent of the total number of plants of each species.
 - c. When container-grown plants are supplied from several sources, the roots of not less than 10 plants of each species from each source will be observed.
 - 1) In case the plants sampled are found to be defective, the Engineer has the right to reject the entire lot represented by the defective sample.
 - 2) Any plant material rendered unsuitable for use because of this observation will be considered as samples and will be provided at no additional cost.
- 7. Container-Grown Stock
 - a. Container-grown stock shall be in a vigorous and healthy condition and not root bound or with the root system hardened off.

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- 1) Container-grown stock shall be grown under climatic conditions similar to that found in the locality of the site.
8. Ground Cover Stock
 - a. Ground cover stock shall be well-established in removable containers or come from formed homogenous soil sections.
 - b. Ground cover stock shall be grown under climatic conditions similar to that found in the locality of the site.
- B. Plant Species
 1. All plants chosen must be included in the West Placer Storm Water Quality Design Manual Final Draft, Fact Sheet TR 1, Sacramento Valley Native Plant List. Plant species chosen will achieve the following design criteria for the bioretention area:
 - a. A variety of trees, shrubs, and herbaceous plant materials must be used
 - b. Emphasis to incorporate native grass meadows, which are highly effective at controlling and treating storm water
 - c. Moisture tolerant plants will be utilized for the bottom of the bottom retention area.
 - d. Plants capable of tolerating drought and fluctuating water conditions will be utilized for the side edges of the bioretention area
 - e. Must meet the general landscape design set forth by the Placer County Landscape Design Guidelines (Placer County Planning Services Division)

2.2 MATERIALS

- A. References
 1. Reference Section 02300, Earthwork, for the following material requirements:
 - a. Drain Pipe Granular Bedding
 - b. Impermeable Liner
 - c. Drain Rock
 - d. Granular Fill
 - e. Coarse Sand
 2. Reference Section 15100, Pipe and Fittings, for Drainage Pipe requirements.
- B. Bioretention Soil Media (BSM):
 1. Minimum 18" thick mixture of 60%-70% sand
 2. Must meet American Society for Testing and Materials (ASTM) C33
 3. 30%-40% compost may be used to provide filtration of runoff
 4. Use of native soil or amendment of native soil may be possible if the following criteria are met:
 - a. Evaluation of the criteria set forth in "Section 3 – Site Assessment" of the West Placer Storm Water Quality Design Manual
 - b. Structural needs evaluation by licensed Geotechnical Engineer
- C. Mulch:
 1. Initial excavation depth shall anticipate the total combined media depth to ensure that mulch is accommodated at final grades
 2. Wood chips or other material that can flow will not be permitted
 3. Installation of mulch just before or the rainy season shall not be permitted
 4. Well-aged shredded hardwood bark mulch shall be used and shall meet the following criteria:
 - a. Must not contain more than 0.1 percent of deleterious materials such as rocks, glass, plastics, metals, clods, weeds, weed seeds, coarse objects, sticks larger

- than the specified particle size, salts, paint, petroleum products, pesticides or other chemical residues harmful to plant or animal life
- b. Shredded bark mulch must be a blend of loose, long, thin wood or bark pieces derived from trees with a high length-to-width ratio. A minimum of 95 percent of the wood strands must have lengths from 2 to 8 inches, with a width and thickness from 1/8 to 1-1/2 inches.

PART 3 - EXECUTION

3.1 DESIGN CRITERIA

- A. The bioretention area shall be installed per the Contract Drawings.
- B. All earthwork construction, including but not limited to: excavation, membrane liner installation, and fill/backfill shall be performed in accordance with Section 02300, Earthwork.
- C. Install Drainage Pipe in accordance with Section 15100, Pipe and Fittings.
- D. BSM Placement
 1. BSM delivery ticket(s): Delivery tickets shall show that the full delivered amount of BSM matches the product type, volume and manufacturer named in the submittals. Each delivered batch of BSM shall be accompanied by a certification letter from the supplier verifying that the material meets specifications and is supplied from the approved BSM stockpile.
 2. Visual match with submitted samples: Delivered product will be compared to the submitted 1-gallon sample, to verify that it matches the submitted sample. The ENGINEER may inspect any loads of BSM on delivery and stop placement if the soil does not appear to match the submittals; and require sampling and testing of the delivered soil to determine if the soil meets the specified requirements before authorizing soil placement.
 3. Inspection of the aggregate storage layer, underdrain, and overflow structure installation, where included on the plans. BSM placement, grading and consolidation shall not occur when the BSM is excessively wet, or has been subjected to more than 1/2 inch of precipitation within 48 hours prior to placement. Excessively wet is defined as being at or above 22 percent soil moisture by a General Tools & Instruments DSMM500 Precision Digital Soil Moisture Meter with Probe (or equivalent). A minimum of three readings with the soil moisture probe will be used to determine the average percent soil moisture reading per each truck load. There should be no visible free water in the material.
 4. The Contractor shall place BSM loosely with a conveyor belt or with an excavator or loader from a height no higher than 6 feet, unless otherwise approved by the Engineer/Landscape Architect (i.e., do not dump material directly from truck into cell). Soil shall be placed upon a prepared subgrade in accordance with these Specifications and in conformity with the lines, grades, depth, and typical cross-section shown in the Drawings or as established by the Engineer/Landscape Architect.
 5. Excessively dry BSM may be lightly and uniformly moistened, as necessary, to facilitate placement and workability.
 6. Compact BSM using non-mechanical compaction methods (e.g., boot packing, hand tamping, or water consolidation) to 83 percent (+/- 2 percent) of the maximum dry density per modified Proctor test (ASTM D1557), or as directed by the Geotechnical Engineer. Determination of in-place density shall be made using a nuclear gauge per

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ASTM D6938. Moisture content determination shall be conducted on a soil sample taken at the location of the nuclear gage reading per ASTM D2216.

7. Grade BSM to a smooth, uniform surface plane with loose, uniformly fine texture. Rake, remove ridges, and fill depressions to meet finish grades.
8. Final soil depth shall be measured and verified only after the soil has been compacted. If after consolidation, the soil is not within +/- 3/4 inch of the grades and slopes specified on the Plans, add material to bring it up to final grade and raked.
9. The BSM shall be inspected and accepted for placement and finish grade by the Engineer/Landscape Architect prior to the installation of planting and mulch. Any BSM that does not conform to this Specification shall be remediated to the satisfaction of the Engineer/Landscape Architect, or removed and replaced with acceptable BSM, at the Contractor's expense.

E. Install Irrigation System in accordance with Section 02810, Irrigation.

3.2 PLANTING PREPARATION

A. General

1. Ensure proper drainage of all planting areas. Any discrepancy in the Drawings or Specifications, obstructions on the site, or prior work done by another contractor, which could preclude the establishment of proper drainage, shall be brought to the immediate attention of the Engineer for correction or relief of said responsibility.
2. Remove all rocks, stones, sticks and debris larger than 1-inch in diameter from the surface of the planting areas.
3. Obtain approval of site conditions by the Engineer before starting planting operations.

B. Planting Layout

1. Groundcover plant locations shall be in straight rows, evenly, triangular spaced, and at the on-center spacing indicated on the Drawings.

C. General Planting Guidelines

1. Plant only as many plants as can be planted and watered on that same day within a given planting area.
2. Protect the planting area from excessive vehicle compaction.
3. Face plant material with fullest growth into the prevailing wind and/or the primary direction of view.

D. Container Removal

1. Plant container shall be opened and removed in such a manner that the soil surrounding the rootball shall not be broken.
2. Do not injure the root ball while removing the container. After removing plant, superficially cut edge roots with a knife on 3 sides.

3.3 PLANT INSTALLATION

- A. Excavate planting pit 12 inches below the bottom of the rootball and to a diameter of twice the diameter of the rootball. Planting pits shall have vertical sides and roughened surfaces. Once excavated, drench planting pit with water.
- B. After obtaining approval by the Engineer, and after water has completely drained from the planting pit, place plant material in the center of the moist planting pit.

- C. Apply backfill mix to the planting pit up to $\frac{1}{2}$ the height of the rootball. Add water to the top of the remaining planting pit and let soak in before completing remainder of backfilling. Finish backfilling with planting soil of the planting pit by tamping the soil firmly around the rootball and watering thoroughly.
- D. Each rooted ground cover plant shall be planted with its proportional amount of soil.
- E. Wood Mulch Topdressing
 - 1. Spread a 4-inch deep layer of wood mulch across entire area as shown on Contract Drawings.
- F. Plant Settling
 - 1. Any plant material that has settled deeper than the surrounding grade shall be raised to the correct level.

3.4 PLANTING DENSITY

- A. Provide the following planting density per 100 square feet:
 - 1. 100 herbaceous plants, 1-foot on center spacing, $\frac{1}{2}$ -gallon container size.
 - 2. 4 shrubs, evenly spaced, 1-gallon container size.

3.5 WATERING

- A. All planting and seeding areas shall be watered immediately after installation. After the first watering, water shall be applied to all plants and seeded areas as conditions may require keeping the vegetation in a healthy and vigorous growing condition until the completion of the Contract.

3.6 CLEANUP

- A. Remove all trash caused from the work on a weekly basis throughout the duration of the Project.
- B. Upon completion of work under this Section, remove all rubbish, waste and debris to a legal location.
- C. Repair all scars, ruts or other marks in the ground caused by the work.
- D. Remove all equipment and implements of service, and leave the entire work area in a neat and clean condition as accepted by the Engineer. All sidewalks and other paving areas shall receive a broom-clean treatment.

3.7 SITE OBSERVATION BEFORE ACCEPTANCE

- A. Corrective actions shall be in strict conformance with the Drawings and these Specifications and per the Engineer, and shall be completed at the Contractor's expense.
- B. The Engineer will perform progress observations of the work and construction operations on completion of construction stages. The Engineer, the Contractor, and others designated by the Owner shall be agreed upon the construction stages for this Specification before starting work and be present on mutually agreed-on dates for the observations for each stage.

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- C. If, after an observation, the Engineer is satisfied with the construction to date and its conformance to the Drawings and Specifications, the Engineer will grant written notice of provisional acceptance for that construction stage.
- D. If, after an observation, the Engineer is dissatisfied with the construction to date and its conformance to the Drawings and the Specifications, the Engineer will prepare a written punch list of necessary corrective action on defective work for the construction stage. All corrections must be completed and will be reobserved by the Engineer within 10 working days from the date of the initial observation.
- E. Project observations shall not occur until all punch list items from previous observations shall not occur until all punch list items from previous observations are corrected. Failure to correct problems in the time specified by the Engineer may result in a delay of payment for the said tasks until the items in question are remedied per the Engineer's direction.
- F. The Contractor shall be charged for any additional construction observations and punch lists required from the Engineer for unscheduled and necessary reobservation of the work due to unsatisfactorily or incompletely addressing previous punch lists.

3.8 SITE OBSERVATION SCHEDULE

- A. Provide the Engineer with 48 hours of advance notification, except as otherwise noted, for required stage acceptance observations including, but not limited to, the following:
 - 1. Plant materials at nursery(s) before delivery to project site.
 - 2. Plant materials after delivery to project site and before planting.
 - 3. Plant locations layout before planting pit excavation.
 - 4. Planting operations, one complete installation of each plant size before installation of remaining plants.
 - 5. Progress container planting operations.
 - 6. Completed container planting operations.
 - 7. Progress seeding operations.
 - 8. Completed seedling operations.
 - 9. Substantial Completion Observation: Final installation observation before the start of the Landscape Maintenance Period (provide 10 working days of advance written notice).

3.9 USE OF BIORETENTION AREA

- A. Convey all un-stabilized site drainage around the bioretention area until the site is stabilized to prevent plugging. The area is not designed to treat runoff from areas where the hydroseeding is not established.

+ + END OF SECTION + +

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SECTION 02970

LANDSCAPE MAINTENANCE

PART 1 - GENERAL

1.1 SCOPE OF WORK

- A. This section only applies to landscaping and not hydroseeding.
- B. After landscape planting and irrigation work have been completed, reviewed and accepted by the Owner and the Engineer, furnish materials, labor, transportation, services and equipment necessary to provide landscape maintenance as indicated on Drawings and as specified herein.
- C. Work included in this Section:
 - 1. Observation of Work Request
 - 2. General Landscape Maintenance
 - 3. Tree and Shrub Care
 - 4. Ground Cover Plant Care
 - 5. Maintaining Water Retention Basins
 - 6. Watering
 - 7. Irrigation System
 - 8. Weed Control
 - 9. Replacement Planting
 - 10. Reseeded Areas
 - 11. Cleanup
 - 12. Site Observation Before Acceptance
 - 13. Site Observation Schedule
 - 14. Final Completion

1.2 REFERENCES

- A. International Society of Arboriculture, pruning mature trees.

1.3 DEFINITIONS

- A. Healthy Plants: Healthy plants shall be those that are of good form, free of disease and insect infestation, are robust, and exhibit vigorous growth (foliage and wood). They must not be heat or water stressed.
- B. Landscape Maintenance Period: Landscape Maintenance Period will be 90 days minimum from acceptance of the completed landscape construction by the Owner and the Engineer.
 - 1. At the discretion of the Engineer, proceed into the Landscape Maintenance Period if planting and irrigation are deemed "substantially complete" by the Engineer.
 - 2. Continuously maintain areas included in this Contract during the Landscape Maintenance Period until Final Acceptance has been granted.
 - 3. Improper landscape maintenance or possible poor condition of planting at termination of the scheduled may cause the Landscape Maintenance Period to be continued at no cost to the Owner.

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4. Any day that Contractor fails to adequately perform landscape maintenance, as determined necessary by the Engineer, will not be credited as one of landscape maintenance working days.
5. The Contractor shall be responsible for establishing and maintaining all plants, including transplants, in a healthy condition throughout the Landscape Maintenance Period. The Contractor shall check the condition of each plant for symptoms of disease, size, color, wilting, defoliation, new growth, browsing by wildlife, insect damage, girdling, structural deformities, dieback, sunburn and vandalism and shall notify the Engineer of the corrective actions required.

1.4 PERFORMANCE STANDARDS

- A. The target survival rate for all container plants shall be 100% survival. The target survival rate for seeded areas shall be 60% cover with native vegetation.
- B. If the percent survival is less than these standards, replacement plants shall be planted, in conformance to the Drawings and Specifications, with the minimum number of plants required to achieve the survivorship standards.
- C. Seeded areas larger than 400 square feet with less than 60% cover with native vegetation shall be reseeded.
- D. If the performance standards are not met at the time of Final Completion, the project will not be accepted until the identified remedial actions are implemented as directed by the Engineer. These may include additional weed control and/or additional planting, using adaptive management to identify those plants best suited to the site. All remedial actions shall be conducted in strict coordination with, and upon the approval of the Engineer.

1.5 QUALIFICATIONS

- A. The applicator of all weed control materials shall be licensed by the State of California as a Pest Control Operator and a Pest Control Advisor in addition to any subcontractor licenses that are required.

1.6 SUBMITTALS

- A. At least 30 days before starting landscape maintenance, submit the following to the Engineer:
 1. A schedule of activities planned during the Landscape Maintenance Period. This schedule must be accepted by the Engineer before start of landscape maintenance. During the Landscape Maintenance Period, document scheduled changes and obtain acceptance by the Engineer.
 2. A written schedule for watering, including rate and length of application for each event over the duration of the Landscape Maintenance Period.
 3. The Pest Control Advisor shall submit a list of the weed control materials and quantities per acre intended for use in controlling the weed types prevalent and expected on the site. Weed control information shall include:
 - a. Data to demonstrate the compatibility of the weed control materials and methods with the intended planting and seed varieties.
 - b. A written list of the proposed herbicide application equipment to be used in performance of the weeding work, including descriptive data and calibration tests. Include the herbicide trade name, chemical composition, formulation, concentration, application rate of active ingredients and methods of application

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- for all materials furnished, as well as the name and State license number of the State certified applicator.
- c. Records of manufacturer's literature, labels, and laboratory analytical data for verification of herbicide to be used, including the chemical makeup and application rate.
 - d. Certificates of compliance certifying that herbicide materials meet the requirements specified shall be submitted before the delivery of materials. Herbicide material shall include EPA registration number and registered uses.
 - e. A Herbicide Treatment Plan (HTP) proposing a sequence of herbicide treatments and a written delivery schedule and written Pest Control Advisor (PCA) recommendation. The herbicide trade name, chemical composition, formulation, concentration, application rate of active ingredients and methods of application for all materials furnished, and the name and state license number of the state certified applicator shall be included. Records of manufacturer's literature, labels, and laboratory analytical data for verification of herbicide to be used including the chemical makeup and application rate shall be submitted. Once approved by the Engineer, the Contractor shall receive written authorization to proceed with the treatment.
4. A list of materials that are to be used during landscape maintenance that are not specified in Section 02900 – Landscape Planting in written form to the Engineer for review and approval before purchasing or delivering to the site.
- B. Replacement Materials
1. For all replacement container plants, and upon the direction of the Engineer, submit a copy of the plant procurement order, including the plant species (by botanical and common name), sizes, and quantities ordered, from a reputable nursery as specified in Section 02900 – Landscape Planting. If the nursery is different than that used to supply the materials for the initial planting, submit the name, address, and phone number of the nursery.
 2. For any reseeding materials, submit verification of seed mix by way of mix labels from the seed mix bags and related items to be used for installing plant materials shall be included in the submittal.
 3. Submit a schedule and plan identifying replacement materials procurement and storage, and anticipated delivery dates for review and approval.
- C. Landscape Maintenance Logs
1. Landscape maintenance activities, including, but not limited to watering, pruning, and weed control shall be logged on a weekly basis and submitted for review during the progress observations.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Provide materials for landscape maintenance work in accordance with requirements of Section 02900, Landscape Planting, except as described herein.

2.2 MATERIALS

- A. Fertilizer
 1. Shall be consistent with the recommendations from the soils analysis.

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2. Shall be Gro-Power Hi-Nitrogen 14-4-9, or approved equal, commercial fertilizer at the rate of 7 ½ pounds per 1,000 square feet.
- B. Replacement Plants
1. Supply all replacement container plant materials as required during Landscape Maintenance Period. Replacement plants shall be container and seed of same species and size according to Section 02900, Planting, unless otherwise directed by the Engineer. Sources proposed for acquisition of replacement plant material must be approved by Engineer before acquisition. In no event shall plants of larger sizes than those originally planted be required.
- C. Herbicide
1. Select herbicides with low toxicity to wildlife and those that are appropriate for the desired effect (i.e., broadleaf herbicide to avoid harm to grasses).
- D. All materials need to be suitable to use per Santa Clara Valley Water District's standards.

PART 3 - EXECUTION

3.1 OBSERVATION OF WORK REQUEST

- A. Request an observation of work by the Engineer to begin the Landscape Maintenance Period after planting and related work has been completed in accordance with Contract Documents. A prime requirement is that ground cover plant (including seeded areas and turf areas), shrub, and tree areas be planted and show a consistent and healthy appearance. If such criteria are met to satisfaction of the Engineer, a field report may be issued to the Owner recommending a date for beginning of the Landscape Maintenance Period.
- B. Any work conducted before the approved landscape maintenance date will not be credited as one of landscape maintenance working days.

3.2 GENERAL LANDSCAPE MAINTENANCE

- A. Furnish sufficient labor and adequate equipment to perform work during the Landscape Maintenance Period.
- B. The general landscape maintenance operations shall include, but is not limited to:
1. Maintaining planting sites and irrigation systems as described specifically herein.
 2. Provide debris removal in all landscaping areas.
 3. Maintain adequate protection of landscaping areas. Repair damaged area.
 4. Sweep clean paved areas at weekly intervals or more frequently, if deemed necessary.
 5. Replacing all dead and severely stressed plants and other materials, as required and in accordance with the performance standards.
 6. Maintaining all planting areas weed free and removing all noxious weeds from entire project site. Cultivation at intervals of not more than 10 days.
 7. Operating the irrigation system on a regular basis throughout the irrigation season and maintaining the irrigation system in a fully operational condition for the duration of the Landscape Maintenance Period, and up to the Final Completion of the project.
 8. Keeping up-to-date record, or as "As-Built" Drawings during the Landscape Maintenance Period.

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9. Providing irrigation controller charts.

3.3 TREE AND SHRUB CARE

- A. Watering: Refer to 3.6, Watering, this Specification section.
- B. Pruning:
 1. Pruning Objectives:
 - a. At no time shall plant material be pruned, trimmed or topped before delivery. Any alteration to a plant material's shape shall only be conducted on-site and in the presence of the Engineer.
 - b. All require pruning of plant material shall be conducted under the observation of the Engineer. Prune plant material only when necessary and under standard horticultural practices to preserve its natural character.
 - c. Select and develop permanent scaffold branches that are smaller in diameter than trunk or branch to which they are attached which have vertical spacing of from 18-inches to 48-inches and radial orientation so as not to overlay one another.
 - d. To eliminate diseased or damaged growth.
 - e. To eliminate narrow V-shaped branch forks that lack strength.
 - f. To reduce toppling and wind damage by thinning out crowns.
 - g. To maintain growth within space limitations.
 - h. To maintain a natural appearance and to balance crown with root mass.
 - i. Do not clip shrubs into balled or boxed forms unless approved initially by the Engineer.
 - j. Make pruning cuts on lateral branches or buds flush with trunk.
 - k. Do not "stub" branches.
- C. Tree Staking
 1. Restake, tighten and repair damaged tree ties.
 2. Reset to proper grades or upright (vertical position, trees that are not in their proper growing position.
 3. Inspect stakes to prevent girdling of trunks or branches and to prevent rubbing that may cause bark wounds.
- D. Weed Control: Refer to 3.8 Weed Control, this Specification section.
- E. Insect and Disease Control:
 1. Maintain insect and disease control during the Landscape Maintenance Period.
- F. Fertilization:
 1. Fertilize planting areas at the start of the Landscape Maintenance Period.
 2. Repeat fertilizer application at 30-day intervals until end of the Landscape Maintenance Period.

3.4 GROUND COVER PLANT CARE

- A. Weed Control: Refer to 3.8, Weed Control, this Specification section.
- B. Watering: Refer to 3.5, Watering, this Specification section.
- C. Fertilizing:
 1. Fertilize as specified under 3.3, Tree and Shrub care, this Specification section.

- D. Edge ground cover to keep in bounds and trim trop growth as necessary to achieve an overall even appearance.

3.5 MAINTAINING WATER RETENTION BASINS

- A. Unless otherwise directed by the Engineer, maintain water retention basins around each plant. As directed by the Engineer, modify the basin to ensure it is capable of containing the required amount of water at each watering event at one time. The lip (or earthen berm) of the basin shall be preserved to a height as shown on the Drawings. Maintenance actions may include importing soil, reforming, and re-compacting the lip (or earthen berm) of the basin. Should water be retained within a basin for more than 4-hours, breach the berm of said basin in order to provide drainage at a given plant, especially during the rainy season and at other times as necessary. Take corrective actions to ensure positive drainage at a given plant; the berm shall then be restored to reform the water retention basin as prescribed herein.

3.6 WATERING

- A. The plants shall receive water by way of the installed irrigation system as shown on the Drawings and according to Section 02810, Irrigation System. When hand watering, use a water wand to break water force.
- B. The Contractor shall observe said system to ensure that it is functioning and providing adequate water to the plants. Water pressure shall be regulated to a level that applies sufficient water without causing damage to plants or erosion to the planting basin. At no time shall any water be applied in a way that will cause erosion, damage to plants, or excessive runoff. Should the watering application rates need adjustment, immediately contact the Engineer for direction. Assume full responsibility for corrective actions resulting from inappropriate water applications and failure to contact the Engineer for direction. Watering shall consist of the application of water in a manner that is sufficient to wet the soil and saturate the root zone and as frequent as necessary to maintain healthy growth, without damaging the plants, the surrounding grade, or the existing watering basins.
- C. Replenish wood mulch to reduce evaporation and frequency of watering. Throughout warm weather conditions, the plants may require additional watering events. The beginning and ending dates and a schedule for watering shall be determined collaboratively by the Contractor and the Engineer. If most of the plants appear to be stressed and in danger of perishing, consult the Engineer to determine the frequency and duration of additional or decreased watering. If modifications are made to the watering schedule, provide the Engineer with 2 copies of the adjusted watering schedule within 2 weeks of receiving the Engineer's verbal acceptance plus subsequent written approval of the modifications. Regulate irrigation watering times to minimize erosion and gullyng.

3.7 IRRIGATION SYSTEM

- A. Provides maintenance of irrigation system consisting of cleaning and adjusting sprinkler and nozzles, and drip emitters, repairing damaged equipment, servicing valves, programming controllers and other activities required during the Landscape Maintenance Period.
- B. Irrigation Controller Charts

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1. "As-Built" Drawings shall be approved by the Engineer before Irrigation Controller Charts are prepared.
2. Provide one Irrigation Controller Chart for each irrigation controller supplied.
3. Each Irrigation Controller Chart shall show the area controlled by that automatic irrigation controller and shall be the maximum size that fits through the irrigation controller door will allow.
4. The Irrigation Controller Chart is to be a reduced "As-Built" Drawings of the irrigation system. In the event that the Irrigation Controller Chart is not legible when the chart is reduced, the text on the "As-Built" Drawing may be enlarged to a size that will be readable when reduced.
5. The Irrigation Controller Chart shall be a monochromatic "Xerox" copy on #20 bond with each valve station represented by a different color.S
6. When completed, hermetically seal the Irrigation Controller Chart between two pieces of 10 mil. plastic laminate.
7. Irrigation Controller Charts shall be completed and approved by the Engineer before the Final Completion.

C. Refer to Section 02810 – Irrigation System for additional requirements.

3.8 WEED CONTROL

- A. Weed control shall consist of maintaining the individual planting sites, areas between individual planting sites, and all areas within planting boundaries (as shown on the Drawings) free of weeds for the duration of the Landscape Maintenance Period.
- B. At individual planting site, weeds shall be removed within a 36-inch diameter of each plant. Weed removal at the trunks of individual plants shall be conducted by hand pulling. At no time shall weed removal disrupt the root systems of the installed plants.
- C. Observe the project site weekly during the Landscape Maintenance Period to evaluate potential weed problems. Any invasive weed species shall be targeted for removal and long-term control through manual or chemical methods. Manual removal by hand-pulling shall be the preferred weed eradication method.
 1. Mechanical methods (such as mowing) or spot herbicide applications may be considered upon receipt of an HTP and approval from the Engineer before application. If approved, herbicide applications shall be conducted according to the approved HTP and under the direction of the Engineer. At no time shall weed control include burning.
 2. Avoid frequent soil cultivation that destroys shallow surface roots.
 3. Replenish lost wood or straw mulch to reduce weed growth.

3.9 REPLACEMENT PLANTING

- A. Material replacement shall be in strict conformance to the Drawings, these Specifications, and the Engineer's direction, and shall be completed at no additional expense.
- B. Plant material that has no easily observable viable aboveground living matter, or is of consistently poor vigor and form as determined by the Engineer, shall be considered dead and must be replaced according to the Drawings and the Specifications. Dead plants shall be removed before installation of replacement plants. All dead plants shall be removed offsite according to State and local regulations at no additional expense.

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- C. Replace plant losses due to inundation, mortality, or poor health and vigor at a rate of 1 replacement plant for each plant lost in accordance with the performance standards described herein. The replacement plants must be similar in size to the current size of the existing plants. If transplants require replanting, the size of the replacements must be approved by the Engineer before ordering or purchase.
- D. All materials determined to be salvaged shall be handled and removed with care. All replacement plant containers and racks shall be salvaged and recycled offsite or returned to the suppliers at no additional cost.

3.10 CLEANUP

- A. Upon completion landscape maintenance, remove rubbish, waste and debris.
- B. Repair scars, ruts or other marks in landscaped areas.
- C. Remove equipment, implements of service and leave landscaping areas in a neat and clean condition as accepted by the Engineer. Sweep clean paved areas.

3.11 SITE OBSERVATION BEFORE ACCEPTANCE

- A. Corrective actions shall be in strict conformance with the Drawings and these Specifications and according to the Engineer, and shall be completed at the Contractor's expense.
- B. The Engineer will perform progress observations of the maintenance work on a weekly basis. The Engineer, the Contractor, and others designated by the Owner shall be present on for the weekly observations.
- C. If, after observation, the Engineer is satisfied with the construction to date and its conformance to the Drawings and the Specifications, the Engineer will grant written notice of acceptance.
- D. If, after an observation, the Engineer is dissatisfied with the maintenance work to date and its conformance to the Drawings and the Specifications, the Engineer will prepare a written punch list of necessary corrective action on defective work. All corrections must be completed by the Contractor and reobserved by the Engineer at the following weekly inspection.
- E. Failure to correct problems in the time specified by the Engineer may result in a delay of payment for the said tasks until the items in question are remedied per the Engineer's direction.
- F. The Contractor shall be charged for any additional observations and punch lists required from the Engineer for unscheduled and necessary reobservation of the Contractor's work due to unsatisfactorily or incompletely addressing previous punch lists.

3.12 SITE OBSERVATION SCHEDULE

- A. Progress observations of the maintenance work shall be one per week. The Engineer and the Contractor shall agree upon a regular day and time for the weekly observations.

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3.13 FINAL ACCEPTANCE

- A. At completion of the Landscape Maintenance Period, schedule a Final Completion observation with the Engineer. Provide 10 working days of advance written notice for the requested date.
- B. The Owner, Engineer, Contractor, and others deemed necessary by the Engineer may be present at the Final Completion observation.
- C. Before requesting Final Completion observation, replacement planting shall be completed.
- D. If during the Final Completion observation the Engineer is of opinion that landscape maintenance has been substantially completed in accordance with this Specification, written notice of recommendation to allow Contractor to be released from Project will be submitted to the Owner for approval. This report will note any incomplete punch list items from Final Completion observation and a date on which these items must be completed. Remaining punch list items shall be completed within 5 working days after the final Acceptance observation was performed by the Engineer.
- E. If during the Final Completion observation the Engineer is of opinion that landscape maintenance has not been substantially completed in accordance with this Specification, the Engineer will prepare a written punch list of necessary corrective action on defective work. All corrections must be completed by the Contractor and reobserved by the Engineer within 10 working days from the date of the initial Final Completion observation. Written notice of recommendation to allow Contractor to be released from Project will not be submitted to the Owner for approval until all corrective actions have been addressed to the satisfaction of the Engineer.
- F. Corrective actions shall be in strict conformance with the Drawings and these Specifications and according to the Engineers, and shall be completed at the Contractor's expense.

+ + END OF SECTION + +

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SECTION 03100
CONCRETE FORMWORK

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes: Falsework and formwork, as required to construct cast-in-place concrete, including placing of all items such as sleeves, anchor bolts, inserts and all other items to be embedded in concrete for which placement is not specifically provided under other Sections.
- B. REFERENCES
 - 1. American Concrete Institute (ACI)
 - a. ACI 301, Specifications for Structural Concrete for Buildings.
 - b. ACI 347, Guide for Concrete Formwork.

1.2 SYSTEM DESCRIPTION

- A. Coordination:
 - 1. Review installation procedures under other Sections and coordinate the installation of items that must be installed with the formwork.
 - 2. Coordinate formwork specifications herein with the requirements for finished surfaces specified in Section 03300, Cast-In-Place Concrete.

1.3 SUBMITTALS

- A. Submit for information purposes the following: Copies of manufacturer's data and installation instructions for all proprietary materials, including form coatings, manufactured form systems, ties and accessories.
- B. Shop Drawings: Forming, shoring and bracing drawings for footings, walls and roofs.
- C. Calculations: Calculations verifying the selection of form ties, horizontal and vertical stiff-backs or braces for wall panels, forming and form openings, falsework or roof forms, or any other part of forming, shoring or bracing which may be considered critical by the ENGINEER. The drawings, with supporting calculations, must be signed and sealed by a Civil or Structural Engineer registered in the State of California.

1.4 QUALITY ASSURANCE

- A. Allowable Tolerances: Construct formwork to provide completed concrete surfaces complying with tolerances specified in ACI 347, Chapter 3.3, except as otherwise specified.
- B. Furnish and install all items for permanent or temporary facilities in accordance with manufacturer's instructions.

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PART 2 - PRODUCTS

2.1 FORM MATERIALS

- A. Forms for Exposed Finish Concrete: Unless otherwise shown or specified, construct formwork for exposed concrete surfaces with plywood overlaid with MDO or HDO specifically designed for concrete forms, metal, metal-framed plywood-faced or other acceptable panel materials, to provide continuous, straight, smooth as-cast surfaces. Furnish in largest practical sizes to minimize number of joints. Provide form material with sufficient thickness to remain watertight and withstand pressure of newly placed concrete without bow or deflection.
- B. Forms for Unexposed Finish Concrete: Form concrete surfaces that will be unexposed in the finished structure with plywood, lumber, metal, or other acceptable material. Provide lumber that is dressed on at least 2 edges and 1 side.
- C. Form Ties:
 - 1. Form ties on exposed surfaces shall be located in a uniform pattern or as indicated on the Drawings. Form ties shall be constructed so that the tie remains embedded in the wall, except for a removable portion at each end. Form ties shall have conical or spherical type inserts, inserts shall be fixed so that they remain in contact with forming material, and shall be constructed so that no metal is within 1 inch of the concrete surface when the forms, inserts, and tie ends are removed. Wire ties will not be permitted. Ties shall withstand all pressures and limit deflection of forms to acceptable limits.
 - 2. Flat bar ties for panel forms shall have plastic or rubber inserts having a minimum depth of 1 inch and sufficient dimensions to permit proper patching of the tie hole.
 - 3. Ties for water-holding structures or dry structures with access such as basements, pipe galleries, etc., that are below finish grade, shall have either an integral steel water stop 0.103 inch thick and 0.625 inch in diameter that is tightly and continuously welded to the tie, or a neoprene water stop 3/16-inch thick and 15/16 inch in diameter whose center hole is ½ the diameter of the snap tie, or a molded plastic water stop of comparable size. Flat snap ties complying with above requirements and other sections of this Specification may be used. The water stop shall be considerably larger in area than the tie cross sectional area, and shall be oriented perpendicular to the tie and symmetrical about the center of the tie. The ties shall be constructed to provide a positive means of preventing rotation or disturbance of the center portion of the tie during removal of the ends.
- D. Alternative Form Ties – Through-Bolts:
 - 1. Alternate form ties consisting of tapered through-bolts at least 1 inch in diameter at smallest end, or through-bolts that utilize a removable tapered sleeve of the same minimum size may be used at the CONTRACTOR's option. Clean and roughen, fill, and seal form tie hole as shown on the Drawings; or where not shown on the Drawings, the CONTRACTOR shall provide a shop drawing submittal of his proposed method of sealing the through-bolt hole by sandblasting or mechanically cleaning and roughening the entire interior surface of the hole, epoxy coating the roughened surface and driving a vinyl plug and then dry packing the entire hole on each side of the plug with nonshrink grout, meeting these Specifications. Dry packing shall be done while the epoxy is tacky or remove the epoxy by mechanical means and reapply new epoxy. The CONTRACTOR shall be responsible for watertightness and any repair needed. Any leaks or dampness on the exterior of through-bolt patches during or after water testing shall require repair or replacement of the patch.

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2. The elastic plug to be inserted into the form tie hole as shown on the Drawings shall be a Dayton Sure Plug, or approved equal, sized to allow insertion using the insertion tool to elongate the plug, place it at the correct location, and allow the plug to return to its original length and diameter upon removal to form a watertight seal. The plugs shall be as manufactured and supplied by Dayton Superior, Dayton OH, phone: 888/977-9500.
- E. Forms Coatings: Provide commercial formulation form-coating compounds that will not bond with, stain, nor adversely affect concrete surfaces, and will not impair subsequent treatment of concrete surfaces requiring bond or adhesion, nor impede the wetting of surfaces to be cured with water or curing compounds.
 1. For concrete structures which will be in contact with potable water, the manufacturer shall certify that the form coating used is NSF 61 approved.

2.2 DESIGN OF FORMWORK

- A. The CONTRACTOR shall design all formwork prior to fabrication. The design shall account for all the tolerances, form ties, finishes, architectural features, rebar supports, construction joint locations, and other features and other nonstructural formwork requirements specified. Forms shall contain pouring and observation windows to allow placement of concrete through windows or shall be staged to allow visual observation at all times of the fresh concrete to ensure correct placement and vibration. Provide a formwork and placement design that will limit free fall of concrete in forms 8-inch or less in width to 5 feet; and for forms wider than 8 inches, limit this fall to 8 feet, except as hereinafter specified. Review methods with ENGINEER prior to start of work. Use placement devices, such as chutes, pouring spouts, pumps, as required.
- B. Wall forms shall be designed such that wall sections can be poured full height without creating horizontal cold joints and without causing snapping of form ties which shall be of sufficient strength and number to prevent spreading of the forms during the placement of concrete and which shall permit ready removal of the forms without spalling or damaging the concrete.
- C. Reuse of forms will be permitted only if a "like new" condition, unless otherwise approved in writing, is maintained. The ENGINEER shall be notified 1 full working day prior to concrete placement so that the forms can be inspected. The CONTRACTOR shall correct any defective work, found in the ENGINEER's inspection, prior to delivery of concrete to the project. Formwork surfaces that were in good condition and accepted for use, but were damaged during removal and handling shall not be reused on additional pours. The CONTRACTOR is expected to take care in the handling of forms and to obtain approval of form surfaces prior to each reuse.
- D. Roof forms and falsework supports for structural slabs shall be sufficiently rigid and strong to support the wet concrete and the men and equipment necessary for its placement without appreciable deflections. A minimum of 50 PSF for live load shall be allowed in the design.
- E. All forms, falsework, shoring, and other structural formwork required shall be structurally designed by the CONTRACTOR and the design shall comply with all applicable safety regulations, current OSHA regulations, and other codes. Where federal or state agencies require a licensed engineer to prepare and/or seal all formwork, falsework or shoring designs, the CONTRACTOR shall hire this engineer and pay all costs. The designs shall be made available to any governing agency upon request. Comply with applicable

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portions of ACI 347, ACI 318 current edition, and these Specifications. All design, supervision, and construction for safety of property and personnel shall be the CONTRACTOR's full responsibility.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine the substrate and the conditions under which Work is to be performed with installer and notify ENGINEER, in writing, of unsatisfactory conditions. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.2 FORM CONSTRUCTION

- A. Construct forms complying with ACI 347; to the exact sizes, shapes, lines and dimensions shown; as required to obtain accurate alignment, location and grades; to tolerances specified; and to obtain level and plumb work in finish structures. Provide for openings, offsets, keyways, recesses, moldings, rustications, reglets, chamfers, blocking, screeds, bulkheads, anchorages and inserts, and other features required. Use selected materials to obtain required finishes. Finish shall be as determined by approved mock-up or sample panel, if specified.
- B. Fabricate forms for easy removal without damaging concrete surfaces. Provide crush plates or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces where the slope is too steep to place concrete with bottom forms only. Kerf wood inserts for forming keyways, reglets, recesses, and the like, to prevent swelling and assure ease of removal.
- C. Provide temporary form windows where interior area of formwork is inaccessible for cleanout, for inspection before concrete placement, and for placement of concrete. Brace temporary closures and set tightly to forms to prevent loss of concrete mortar. Locate form windows on forms in locations as inconspicuous as possible, consistent with requirements of the Work. Form intersecting planes of openings to provide true, clean-cut corners, with edge grain of plywood not exposed as form for concrete.
- D. Falsework:
 - 1. Erect falsework and support, brace and maintain it to safely support vertical, lateral and asymmetrical loads applied until such loads can be supported by in-place concrete structures. Construct falsework so that adjustments can be made for take-up and settlement.
 - 2. Provide wedges, jacks or camber strips to facilitate vertical adjustments. Carefully inspect falsework and formwork during and after concrete placement operations to determine abnormal deflection or signs of failure; make necessary adjustments to produce finished Work of required dimensions.
- E. Forms for Exposed To View Concrete:
 - 1. Do not use metal cover plates for patching holes or defects in forms.
 - 2. Provide sharp, clean corners at intersecting planes, without visible edges or offsets. Back joints with extra studs or girts to maintain true, square intersections.

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3. Use extra studs, walers and bracing to prevent bowing of forms between studs and to avoid bowed appearance in concrete. Do not use narrow strips of form material that will produce bow.
 4. Assemble forms so they may be readily removed without damage to exposed concrete surfaces.
 5. Form molding shapes, recesses, rustication joints and projections with smooth-finish materials, and install in forms with sealed joints to prevent displacement.
- F. Corner Treatment:
1. Form exposed corners of beams, walls, foundations, bases and columns to produce smooth, solid, unbroken lines, except as otherwise shown. Except as specified below for reentrant or internal corners, exposed corners shall be chamfered.
 2. Form chamfers with 3/4"x 3/4" strips, unless otherwise shown, accurately formed and surfaced to produce uniformly straight lines and tight edge joints. Use rigid PVC chamfers for all architecturally formed concrete. Extend terminal edges to require limit and miter chamfer strips at changes in direction.
 3. Reentrant or internal corners and unexposed corners need not be formed chamfered.
- G. Openings and Built-In Work:
1. Provide openings in concrete formwork shown or required by other Sections or other contracts.
 2. Accurately place and securely support items to be built into forms.
- H. Cleaning and Tightening: Thoroughly clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt or other debris just before concrete is to be placed. Retighten forms immediately after concrete placement as required to eliminate mortar leaks.

3.3 FORM COATINGS

- A. Coat form contact surfaces with a non-staining form-coating compound before reinforcement is placed. Do not allow excess form coating material to accumulate in the forms or to come into contact with surfaces that will be bonded to fresh concrete. Apply in compliance with manufacturer's instructions.
- B. Coat steel forms with a non-staining, rust-preventative form oil or otherwise protect against rusting. Rust-stained steel formwork is not acceptable.

3.4 INSTALLATION OF EMBEDDED ITEMS

- A. Set and build into the formwork, anchorage devices and other embedded items, shown, specified or required by other Sections and other contracts. Use necessary setting drawings, diagrams, instructions and directions.
- B. Edge Forms and Screeds Strips for Slabs: Set edge forms or bulkheads and intermediate screed strips for slabs to obtain required elevations and contours in the finished slab surface. Provide and secure units to support screeds.

3.5 FIELD QUALITY CONTROL

- A. Before concrete placement, check the formwork, including tolerances, lines, ties, tie cones, and form coatings. Make corrections and adjustments to ensure proper size and location of concrete members and stability of forming systems.

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- B. During concrete placement check formwork and related supports to ensure that forms are not displaced and that completed Work is within specified tolerances.
- C. If forms are unsatisfactory in any way, either before or during placing of concrete, postpone or stop placement of concrete until the defects have been corrected, and reviewed by ENGINEER.

3.6 REMOVAL OF FORMS

- A. Conform to the requirements of ACI 301, Chapter 2 and ACI 347, Chapter 3.7 except as specified below.
 - 1. Removal of Forms and Supports: Continue curing in accordance with Section 03300, Cast-In-Place Concrete, Paragraph 3.7. Forms are to remain in-place for the time specified below following the end of concrete placement. The durations shown represent a cumulative number of days, or hours, not necessarily consecutive, during which the temperature of the air surrounding the concrete is above or below 50°F.

Temperature:	Above 50°F	Below 50°F or when retarders are used
Walls	12 hours	48 hours
Columns	12 hours	48 hours
Sides of Slabs	6 hours	12 hours
Structural Floor or Roof Slabs	Do not remove forms until site-cured test cylinders develop 100% of 28-days strength.	

- 2. When wall or column forms also support formwork for slab or beam soffits, the removal times of the latter should govern.

3.7 RE-USE OF FORMS

- A. Clean and repair surfaces of forms to be re-used in the Work. Split, frayed, delaminated or otherwise damaged form facing material will not be acceptable. Apply new form coating compound material to concrete contact surfaces as specified for new formwork.
- B. When forms are extended for successive concrete placement, thoroughly clean surfaces, remove fins and laitance, and tighten forms to close all joints. Align and secure joints to avoid offsets. Do not use patched forms for exposed concrete surfaces. Form surfaces shall be subject to ENGINEER'S approval.

+ + END OF SECTION + +

SECTION 03200
CONCRETE REINFORCEMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes: Fabrication and placement of reinforcement including bars, ties and supports, and encasements.

1.2 SUBMITTALS

- A. Shop Drawings:
1. Manufacturer's specifications and installation instructions for all materials and reinforcement accessories.
 2. Drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315, Parts A and B. For walls, show elevations to a minimum scale of 1/4-inch to 1 foot. For slabs, show top and bottom reinforcing on separate plan views. Show bar schedules, stirrup spacing, diagrams of bent bars, arrangements and assemblies, as required for the fabrication and placement of concrete reinforcement, unless otherwise noted. Keep splices to a minimum. Avoid splices in regions of maximum tension stresses whenever possible.
- B. Certificates: Submit one (1) copy of steel producer's certificates of mill analysis, tensile and bend tests for reinforcing steel.

1.3 QUALITY ASSURANCE

- A. Reference Standards: Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified:
1. American Concrete Institute (ACI):
 - a. ACI 315, Manual of Engineering and Placing Drawings for Reinforced Concrete Structures.
 - b. ACI 318, Building Code Requirements for Reinforced Concrete.
 2. Concrete Reinforcing Steel Institute:
 - a. Manual of Standard Practice, includes ASTM standards referred to herein.
- B. Allowable Placing Tolerances: Comply with ACI 318, Chapter 7 - Details of Reinforcement.

1.4 DELIVERY, HANDLING AND STORAGE

- A. Deliver concrete reinforcement materials to the site bundled, tagged and marked. Use metal tags indicating bar size, lengths, and other information corresponding to markings shown on placement diagrams.
- B. Store concrete reinforcement material at the site to prevent damage and accumulation of dirt or excessive rust. Store on heavy wood blocking so that no part of it will come in contact with the ground.

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PART 2 - PRODUCTS

2.1 MATERIALS

- A. Reinforcing Bars: ASTM A615, Grade 60 for all non-welded bars. ASTM A706, Grade 60 for welded bars.
- B. Mechanical Couplers: Reinforcement bars may be spliced with a mechanical connection. Provide a full mechanical connection which shall develop in tension or compression, as required, at least 125% of specified yield strength (f_y) of the bar in accordance with ACI 318 Section 12.14.3.2. The locations of the connections are subject to the approval of the ENGINEER.
 - 1. Dayton Superior Bar Lock S/CA Series.
 - 2. Or approved equal
- C. Threaded Splicing Systems: Dowel Bar Splicer System shall comply with ICC Report #4028. The completed splice shall exceed 160% of the specified yield strength (f_y) of the bar.
 - 1. Dayton Superior DB/DI parallel threaded couplers.
 - 2. Or approved equal
- D. Steel Wire: ASTM A82.
- E. Column Spirals: Hot-rolled rods for spirals, ASTM A615.
- F. Supports for Reinforcement: Bolsters, chairs, spacers and other devices for spacing, supporting and fastening reinforcement in place.
 - 1. Use wire bar type supports complying with CRSI recommendations, except as specified below. Do not use wood, brick, or other unacceptable materials.
 - 2. For slabs on grade, use 5000 psi concrete blocks.
 - 3. At all formed surfaces, provide supports complying with CRSI "Manual of Standard Practice" as follows: Plastic protected or stainless-steel legs.

2.2 FABRICATION

- A. General: Fabricate reinforcing bars to conform to required shapes and dimensions, with fabrication tolerances complying with CRSI, "Manual of Standard Practice". In case of fabricating errors, do not re-bend or straighten reinforcement in a manner that will injure or weaken the material.
- B. Unacceptable Materials: Reinforcement with any of the following defects will not be permitted in the Work:
 - 1. Bar lengths, bends, and other dimensions exceeding specified fabrication tolerances.
 - 2. Bends or kinks not shown on approved Shop Drawings.
 - 3. Bars with reduced cross-section due to excessive rusting or other cause.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine substrate and conditions under which concrete reinforcement is to be placed with installer, and notify ENGINEER, in writing, of unsatisfactory conditions. Do not

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proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.2 INSTALLATION

- A. Comply with the applicable recommendations of specified codes and standards, and CRSI, Manual of Standard Practice, for details and methods of reinforcement placement and supports.
- B. Clean reinforcement to remove loose rust and mill scale, oil, earth, ice, and other materials that reduce or destroy bond with concrete.
- C. Position, support, and secure reinforcement against displacement during formwork construction or concrete placement operations. Locate and support reinforcing by metal chairs, runners, bolsters, spacers and hangers, as required.
 - 1. Place reinforcement to obtain the minimum concrete cover as shown. Arrange, space, and securely tie bars and bar supports together with 16-gage wire to hold reinforcement accurately in position during concrete placement operations. Slab and wall bars shall be tied at every intersection around the periphery of the slab or wall and not less than every 48 inches in the field at walls and 60 inches in the field at slabs.
 - 2. Bar supports shall be placed no further than 4 feet apart in each direction. Supports must be completely concealed in the concrete and shall not discolor or otherwise mar the surface of the concrete.
 - 3. Set wire ties so that twisted ends are directed away from exposed concrete surfaces.
 - 4. Do not secure reinforcing steel to forms with wire, nails or other ferrous metal. Do not permit metal supports subject to corrosion to touch or be within the required clearance to formed or exposed concrete surfaces.
- D. Provide sufficient numbers of supports of strength required to carry reinforcement. Do not place reinforcing bars more than 2-inches beyond the last leg of any continuous bar support. Do not use supports as bases for runways for concrete conveying equipment or similar construction loads.
- E. Splices: Provide reinforcement lap splices by placing bars in contact, and tying tightly with wire. Comply with requirements shown for minimum lap of spliced bars.
- F. Mechanical Couplers in Lieu of Lap Splicing:
 - 1. Provide mechanical butt splices in accordance with the recommendation of the manufacturer of the mechanical splicing device. Butt splices shall develop 125 percent of the specified minimum yield tensile strength of the spliced bars or of the smaller bar in transition splices. Flame dry bars before butt splicing. Provide adequate jigs and clamps or other devices to support, align, and hold the longitudinal centerline of the bars to be butt spliced in a straight line.
- G. Reinforcement Around Openings: Place an equivalent area of steel around the pipe or opening and extend on each side sufficiently to develop bond in each bar. See the Details on Drawings for bar extension length each side of opening. Where welded wire fabric is used, provide extra reinforcing using fabric or deformed bars.
- H. Field Bending: Field bending of reinforcing steel bars is not permitted when rebending will later be required to straighten bars. Rebending of bars at the same place where strain hardening has taken place due to the original bend will damage the bar. Consult

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with the ENGINEER prior to any pour if the CONTRACTOR foresees a need to work out a solution to prevent field bending.

3.3 INSPECTION OF REINFORCEMENT

- A. Do not place concrete until the reinforcing steel is inspected and permission for placing concrete is granted by ENGINEER. All concrete placed in violation of this provision will be rejected.

+ + END OF SECTION + +

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SECTION 03230

BASE RESTRAINT CABLES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope:
 - 1. This section covers the work necessary to install the tank base restraint cables.

1.2 SUBMITTALS

- A. Shop Drawings: Submit drawings showing the quantity, location and details for approval prior to base restraint cable fabrication.
- B. Product Data: Submit copies of manufacturer's specifications and installation instructions for all materials and base restraint cable accessories.

1.3 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver base restraint cable materials to the site bundled, tagged and marked. Store materials at the jobsite to prevent damage and accumulation of dirt or excessive rust. Store materials on heavy wood blocking so that no part of the materials come in contact with the ground.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Base Restraint Cables
 - 1. Where called for on the Drawings, seismic cables consisting of seven-wire galvanized strands, meeting the minimum strength requirements on the Drawings, shall be installed to connect wall and wall footing. If no strength requirements are shown on the Drawings, the minimum ultimate strength for 3/8" diameter, 1/2" diameter and 0.60" diameter strand shall be 21,400 lbs., 38,200 lbs. and 52,800 lbs., respectively.
 - 2. The strands shall be hot-dipped galvanized before stranding with a minimum zinc coating of 0.85 oz./ft².
 - 3. Galvanized strands for base restraint cables shall meet the quantity and spacing outlined on the Drawings.
- B. Closed Cell Neoprene Base Restraint Cable Sleeves
 - 1. Neoprene sleeves for base restraint cables, which encase the galvanized strands, shall conform to the minimum dimensions shown on the Drawings to permit unrestrained flexing of the strands inside the sleeves under the maximum projected radial wall movements.
 - 2. The material shall be medium grade closed cell neoprene conforming to 2A3 of ASTM D1056 and shall meet the requirements of Specification 03251, Concrete Joints Section 2.4.A.

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C. Steel Reinforcing Bars

1. Steel reinforcing bars used for the support of the base restraint cables shall conform to the requirements of Specification 03200, Reinforcing Steel.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Examine the conditions under which the base restraint cables are to be placed with the installer, and notify ENGINEER, in writing, of unsatisfactory conditions. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.2 INSTALLATION

A. Base Restraint Cables

1. The cables may be cut to length with a burning torch.
2. Where necessary, the strands shall be pre-bent before placing the units in wall and wall footings, as called for on the Drawings.
3. The strands shall be tied to circumferential reinforcing as required and as shown on the Drawings.
4. In the footing, the strands shall be tied to the radial footing bars.

+ + END OF SECTION + +

SECTION 03251

CONCRETE JOINTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes installation of concrete joints including, construction joints, expansion joints and fillers, waterstops, and contraction (control) joints.

1.2 REFERENCES

- A. American Concrete Institute (ACI)
 - 1. ACI 301, Specifications for Structural Concrete for Buildings.
- B. American Society for Testing and Materials (ASTM)
 - 1. ASTM A36, Standard Specification for Structural Steel.
 - 2. ASTM D1752, Standard Specification for Preformed Sponge Rubber and Cork Expansion Joint Fillers for Concrete Paving and Structural Construction.
 - 3. ASTM D570, Standard Test Method for Water Absorption of Plastics.
- C. NSF/ANSI Standard 61 Drinking Water Systems Components.

1.3 SYSTEM DESCRIPTION

- A. All joints subject to hydrostatic pressure shall be provided with continuous waterstop.

1.4 SUBMITTALS

- A. Product Data: Submit for approval, Manufacturer's specifications and installation instructions for all materials required.
- B. Shop Drawings: Submit for approval:
 - 1. Layout of all construction joint locations prior to the submittal of steel reinforcing drawings. The concrete pour sequence and placement schedule shall be stated in the construction joint shop drawing layout.
 - 2. Detail for joining polyvinyl chloride waterstops.
- C. Samples: Submit for approval:
 - 1. Waterstops for joints.
 - 2. Expansion joint fillers.
 - 3. Neoprene bearing pads.
 - 4. Closed cell neoprene pads.

1.5 QUALITY ASSURANCE

- A. Install all manufactured items in accordance with manufacturer's instructions.
- B. Store materials off the ground and protected from moisture, dirt and other contaminants. Protect installed and uninstalled materials from UV exposure in accordance with manufacturer's instruction.

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PART 2 - PRODUCTS

2.1 WATERSTOPS

A. Polyvinyl Chloride:

1. NSF-61 Certified PVC waterstops.
2. Reference Standard: ASTM D570.
3. Construction Joints: Minimum of 3/8" thick, ribbed, width as shown, or if not shown, 6-inch minimum, center bulb type may be provided but is not required.
4. Control Joints: Minimum of 3/8" thick, ribbed, center bulb type, width as shown, or if not shown, 6-inch minimum.
5. Expansion Joints: Minimum thickness of 3/8" and 9" minimum width. Provide with "O" or "U" shaped center bulb. The "O" shall have an outside diameter of 3/4" minimum.
6. Base of prestressed tank walls: Minimum thickness of 3/8" and 9" minimum width. Provide a center bulb with an outside diameter equal to the bearing pad thickness, unless shown otherwise.
7. Product and Manufacturer: Provide polyvinyl chloride waterstops of one of the following:
 - a. W.R. Meadows, Incorporated.
 - b. Greenstreak Group, Incorporated.
 - c. Or approved equal.

B. Hydrophilic:

1. Provide chloroprene rubber waterstops, 3/8-inch thick.
2. Product and Manufacturer: Provide one of the following:
 - a. Sika Hydrotite.
 - b. Or approved equal.

C. Injectable Waterstop Hose System:

1. Provide injection hose system with colored vent ends, junction boxes, anchor clips, closure plugs, and all other accessories for a complete injectable waterstop hose system.
2. The injection hose shall have staggered discharge openings and a one-way valve arrangement for uniform discharge of the injection grout. The hose must be of appropriate size and construction for the injection of water-soluble hydrophilic acrylate ester resin. The construction of the hose shall permit free discharge of the specified injectable waterstop into the concrete, without backwash, for the entire length of the hose (with the exception of the vent ends).
3. The vent ends shall be reinforced, color-coded PVC and internally connected to the injectable waterstop hose with shrink-on sleeves.
4. Junction boxes shall be heavy duty plastic made for embedment in concrete and of adequate size for housing and protection of the injection hose vent ends. Boxes shall be securely fitted with temporary knock-out covers to be used during concreting operations. Where exposed to view, boxes shall be fitted with covers mounted flush with the surrounding area.
5. The hoses shall be cut and fitted with vent ends in lengths to suit field measured conditions, with a maximum of 40 linear feet for each hose, including vent ends. Longer lengths shall be fabricated in accordance with the manufacturer's recommendations.
6. Product and Manufacturer:
 - a. SikaFuko ECO 1, Sika Greenstreak.
 - b. Or approved equal.

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D. Injectable Waterstop Injection Grout:

1. Provide NSF-61 approved water soluble, hydrophilic, acrylate ester resin. In the uncured state, resin shall be water soluble, non-water reactive, and solvent free. Resin shall have viscosity of less than 20 mPas and be easily pumped, flushed, and vacuumed during the injection process with the injectable waterstop hose. All procedures shall be performed within the set time of the injected material. In the cured state, material shall be solid, hydrophilic, and flexible with reversible swelling action in excess of its initially installed volume. Cured material shall be resistant to common ground water contaminants, stable in the presence of acids, alkaline solutions, solvents and fuels, and resistant to permanent water pressure and salt-water environments.
2. Product and Manufacturer:
 - a. Sika Greenstreak.
 - b. Polymer Systems.
 - c. Or approved equal.

2.2 PREFORMED EXPANSION JOINT FILLER

- A. Preformed joint filler material shall be of the preformed non-extruding type joint filler constructed of cellular neoprene sponge rubber or polyurethane of firm texture. Bituminous fiber type will not be permitted. All non-extruding and resilient-type preformed expansion joint fillers shall conform to the requirements and tests set forth in ASTM D1752 for Type 1.

2.3 NEOPRENE BEARING PADS

- A. Neoprene pads shall be of dimensions and hardness shown on the Drawings and shall be made by an approved manufacturer. Provide neoprene bearing pads that conform to ASTM D2000 with the following properties:
1. Neoprene bearing pads shall have a hardness of 40 to 50 durometer, a minimum tensile strength of 2,000 psi, a minimum elongation of 500%, and a maximum compressive set of 35%.
- B. Manufacturer: Provide one of the following:
1. Kirkhill Manufacturing Company.
 2. West American Rubber Company, Inc.
 3. Dacon Industries Company.
 4. Or approved equal.

2.4 CLOSED CELL NEOPRENE PADS

- A. Closed cell neoprene pads shall be used as a filler material in the flexible joints between the wall and wall footing and between the wall and roof connection in the areas not taken up by the solid neoprene bearing pads and waterstops. The materials shall be medium grade closed cell neoprene conforming to 2A3 of ASTM D1056 and as further specified here-in and on the Drawings.

Compression deflection	: 9 – 13 psi
Shore 00 durometer	: 60 – 80 pcf
Density	: 12 – 28 pcf
Water absorption by weight	: 5%
Temperature range:	
Low (flex without cracking)	: -30°F
High continuous	: 150°F

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High intermittent	:200°F
Heat aging (7 days @ 158°F)	
lineal shrinkage (max)	:5%
Tensile strength	115 psi min
Elongation	:180% min
Resilience (bayshore % rebound average ½" thickness @ 72°F)	: 20% - 40%

B. Manufacturer: Provide one of the following:

1. Dacon Industries Co
2. Stockwell Elastomerics
3. Proxis Products LLC

2.5 SOFT MASTIC

A. Soft mastic shall be installed in all voids and cavities around bearing pads, waterstops, and seismic cable sleeves. Such material shall be installed with a consistency that will not adversely affect the quality of waterstop and neoprene materials. Soft mastic shall be an approved joint sealant as specified in Section 07900, Joint Sealants.

2.6 CONCRETE CONSTRUCTION JOINT ROUGHENER

A. Provide a water-soluble non-flammable, surface-retardant roughener.

B. Product and Manufacturer: Provide one of the following:

1. Rugasol-S, as manufactured by Sika Corporation for horizontal joints.
2. MBT EAC-S, as manufactured by Master Builders for horizontal joints.
3. MBT Tuf-Cote (Deep Etch), as manufactured by Master Builders for vertical joints.
4. Or approved equal.

2.7 EPOXY BONDING AGENT

A. Provide an epoxy-resin bonding agent, two component type.

B. Product and Manufacturer: Provide one of the following:

1. Sikadur 32 Hi-Mod LPL, as manufactured by Sika Corporation.
2. Eucopoxy LPL, as manufactured by the Euclid Chemical Company.
3. Epoxite Binder (Code # 2390), as manufactured by A.C. Horn, Incorporated.
4. Or approved equal.

2.8 RUBBER BONDING AGENT

A. Product and Manufacturer: Where bonding agent is subject to contact with potable water, bonding agent shall be NSF-61 Certified. Provide one of the following:

1. Scotch-Grip 1300 Rubber Adhesive, as manufactured by 3M Company.
2. Sikaflex-1a, as manufactured by Sika Corporation.
3. Or approved equal.

2.9 MORTAR

A. Mortar must be composed of cement, sand and water. Materials for mortar must comply with Section 03300. The proportion of sand to cement measured by volume must be 2 to 1 respectively. Mortar must contain only enough water to allow placing.

2.10 BOND BREAKER

- A. Tape for Joints: Adhesive-backed glazed butyl or polyethylene tape, same width as joint that will adhere to premolded joint material or concrete surface.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine substrate and conditions under which Work is to be performed with installer and notify ENGINEER, in writing, of unsatisfactory conditions. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.2 CONSTRUCTION JOINTS

- A. Comply with ACI 301, Chapter 2.2, and as specified below.
- B. Locate and install construction joints as shown. Locate additional construction joints as required to satisfactorily complete all Work.
- C. Horizontal Joints Below Prestressed Concrete Tank Column Footings:
 - 1. Roughen existing concrete at the interface of the bottom of the footing and top of the slab by sandblasting. Roughen the existing slab surface to the greatest extent possible by sandblasting, but 1/4-inch is not required to be achieved at these joints. Remove accumulated concrete from the exposed column rebar.
 - 2. Saturate existing slab concrete to a saturated surface dry condition just prior to placing footing concrete.
- D. Other Horizontal Joints:
 - 1. Roughen concrete at the interface of construction joints by sandblasting to expose the aggregate (1/4-inch minimum amplitude) and remove accumulated concrete on rebar immediately subsequent to form stripping. When sandblasting adjacent to installed waterstops, shield installed waterstops from the sandblasting operation. Immediately before placing fresh concrete, thoroughly clean the existing contact surface using a stiff brush or other tools and a stream of water under pressure. The surface shall be clean and wet, but free from pools of water at the moment the fresh concrete is placed.
 - 2. Remove laitance, waste mortar or other substance that may prevent complete adhesion.
- E. Vertical Joints:
 - 1. Remove accumulated concrete on rebar.
 - 2. Roughen concrete at the interface of the construction joints to expose the aggregate (1/4-inch minimum amplitude) through one of the following:
 - a. Apply roughener to the form in a thin, even film by brush, spray or roller in accordance with the manufacturer's instructions. After roughener is dry, concrete may be placed. When concrete has been placed and the form removed, wash loosened material off with high-pressure water spray to obtain roughened surface subject to approval by ENGINEER.
 - b. Sandblast after concrete has fully cured.
 - c. Waterblast after concrete has partially cured.
 - d. Perform cleaning so as not to damage waterstop, if one is present.

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3.3 EXPANSION JOINTS

- A. Locate and install expansion joints as shown. Install preformed joint filler or bearing pads in accordance with manufacturer's instructions. Install caulking and sealants as specified in Section 07900, Joint Sealants.

3.4 WATERSTOPS

- A. General:

- 1. Comply with ACI 301, Chapter 2, and as specified below. Make all joints in accordance with manufacturer's instructions.
 - 2. Obtain ENGINEER'S approval for waterstop locations not shown.
 - 3. Provide waterstops in all basements, tanks and other substructures up to an elevation at least 12" above grade or to an elevation at least 12" above highest liquid level in tanks, whichever is higher, except where otherwise shown or noted.

- B. Polyvinyl Chloride Waterstop:

- 1. Install waterstop in accordance with the manufacturer's printed installation instructions.
 - 2. Tie waterstops to reinforcing steel at 12-inches on center, in each direction, so that it is securely and rigidly supported in the proper position, centered in the joint, during concrete placement. Hog rings shall be used to facilitate placing and tying of waterstops to reinforcing steel forms or form-ties.
 - 3. Continuously inspect waterstops during concrete placement to ensure their proper positioning.
 - 4. Provide fused waterstops using equipment as supplied by or recommended by the manufacturer. Joints shall be inspected for strength and pinholes after splicing. Splices shall be strong enough to develop a pulling force of 75 percent of the strength of the waterstop, and shall be watertight.
 - 5. Any waterstop punctured or damaged shall be repaired or replaced.
 - 6. Cover and protect installed waterstops from UV if the pour of concrete will be delayed more than 30 days.
 - 7. Shield installed waterstops from sandblasting when performing surface roughening adjacent to installed waterstops.

- C. Hydrophilic Waterstop: Install where shown in accordance with manufacturer's recommendations.

- D. Injectable Waterstop Hose System:

- 1. All installation, inspection, and injection operations shall be in strict accordance with the injectable hose system manufacturer's instructions and shall be done by an approved applicator of the injectable hose system manufacturer or under the direct supervision of the injectable hose system manufacturer's representative.
 - 2. Protect all injectable hoses from flame, sparks, oil, dirt, concrete splatter and damage prior to concrete pour.
 - 3. Concrete surfaces where injectable hoses are to be installed are to be clean, dry, smooth, and free from dirt and debris.
 - 4. Hoses must be located with at least 4 inches of concrete cover. Install as close as possible to centerline of wall or slab, with only the vent ends crossing over the injectable hose. Only vent ends should leave the joint.
 - 5. Do not fasten injectable hoses to reinforcing steel.
 - 6. Visible honeycombs at the surface should be patched directly after dismantling formwork to avoid loss of injection material during the injection operation.

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- E. Injectable Waterstop Injection Grout:
1. Allow concrete to cure for 28 days prior to injection work.
 2. If any leakage is evident at construction joints, inject approved injection material as a remedial measure to stop such leaks and seal the joint area.
 3. Prepare injection material and perform actual injection in strict accordance with the manufacturer's printed instructions and specifications regarding mixing, injection procedures, application pot-life, and equipment requirements.
 4. Initial injection pressure should be approximately 200-300 psi. Once the injection material has filled the joint area and is no longer flowing, gradually increase the pressure to 500-600 psi. Maintain this pressure for 3-5 minutes, allowing for the injection material to thoroughly penetrate the joint area.
 5. Once maximum pressure is maintained for the allotted time frame, disconnect the pump and follow connection procedures to inject hose from opposite end. Injection procedures must be completed within the gel time of the injection material and in accordance with the manufacturer's specifications.
 6. If injection material penetrates concrete surfaces, wipe clean with water.
 7. Piston type pumps (not diaphragm) shall be used with hydrophilic resin injections.

3.5 BEARING AND FILLER PADS

- A. General:
1. Bearing and filler pads shall be installed as indicated on the Drawings.
 2. Bearing and filler pads shall be glued to the concrete with an approved rubber cement material, NSF 61 approved, to prevent uplift of the pads during concrete pouring.
 3. In addition, all pads shall be held down with approved plastic shim plates placed under the reinforcing steel.
 4. Nailing down pads will not be permitted
 5. All voids and cavities between bearing and filler pads, waterstop and seismic cable sleeves, irrespective of whether these voids are large or small, shall be filled with a soft mastic / joint sealant.
 6. Closed cell neoprene shall be ordered at least 1/4 inch wider than theoretically required to facilitate placing and to reduce development of voids between filler pads, bearing pads and waterstops.
 7. Contractor's workmanship shall be such that no cement grout or concrete seepage will occur through the bearing and filler pad area resulting in a restraint of radial wall movements.
 8. A continuous neoprene pad and one or more sponge filler pads are required between the top of the wall and the underside of the roof. Any void areas between such pads shall be caulked and sealed to prevent any mortar from the roof pour to come in contact with the wall top.

3.6 BONDING WITH EPOXY ADHESIVE

- A. Use adhesive for the following:
1. Bonding of fresh concrete to concrete cured at least 45 days or to existing concrete.
 2. Bonding of horizontal surfaces, which will receive a topping.
- B. Handle and store epoxy adhesive in compliance with the manufacturer's printed instructions, including safety precautions.
- C. Mix the epoxy adhesive in complete accordance with the instructions of the manufacturer.

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- D. Before placing fresh concrete, thoroughly roughen and clean hardened concrete surfaces and coat with epoxy adhesive not less than 1/16" thick. Place fresh concrete while the epoxy material is still tacky, without removing the in-place grout coat, and as directed by the epoxy manufacturer.

+ + END OF SECTION + +

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SECTION 03300
CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes: Place, finish, cure, strip, and repair concrete.

1.2 REFERENCES

- A. American Concrete Institute (ACI)
1. ACI 211.1, Standard Practice for Selecting Proportions for Normal, Heavyweight and Mass Concrete.
 2. ACI 214, Recommended Practice for Evaluation of Strength Test Results of Concrete.
 3. ACI 301, Specifications for Structural Concrete for Buildings, (includes ASTM Standards referred to herein).
 4. ACI 304, Guide for Measuring, Mixing, Transporting and Placing Concrete.
 5. ACI 305, Hot Weather Concreting.
 6. ACI 306, Cold Weather Concreting.
 7. ACI 309, Guide for Consolidation of Concrete.
 8. ACI 311, Guide for Concrete Inspection.
 9. ACI 318, Building Code Requirements for Reinforced Concrete.
 10. ACI 347, Guide to Formwork for Concrete
 11. ACI 350, Environmental Engineering Concrete Structures.

1.3 SYSTEM DESCRIPTION

- A. Class A Concrete shall be steel reinforced and includes:
1. Foundations.
 2. Walls.
 3. Slabs.
 4. Columns.
 5. Equipment bases.
 6. Pipe supports.
 7. Encasements connected to foundations.
- B. Class B Concrete shall be placed without forms or with simple forms, with little or no reinforcing, and includes:
1. Concrete fill.
 2. Curbs and gutters.
 3. Sidewalks.
 4. Thrust blocks.
 5. Encasements not connected to foundations.

1.4 SUBMITTALS

- A. Samples: Submit samples of materials as specified and as otherwise may be requested by ENGINEER, including names, sources and descriptions.
- B. Product Data: Submit for approval the following:

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1. Manufacturer's specifications with application and installation instructions for proprietary materials and items, including admixtures and bonding agents.
 2. List of concrete materials and concrete mix designs proposed for use. Include the results of all tests performed to qualify the materials and to establish the mix designs.
- C. Laboratory Test Reports: Submit copies of laboratory test reports for materials and mix design tests
- D. Delivery Tickets: Furnish to ENGINEER copies of all weighmaster certificate delivery tickets for each load of concrete delivered to the site. Provide items of information as specified in ASTM C94, Section 16. Delivery tickets shall be signed by a Certified Weighmaster.

1.5 QUALITY ASSURANCE

- A. Tests for Concrete Materials: Submit written reports to ENGINEER, for each material sampled and tested, prior to the start of Work. Provide the Project identification name and number, date of report, name of CONTRACTOR, name of concrete testing service, source of concrete aggregates, material manufacturer and brand name for manufactured materials, values specified in the referenced specification for each material, and test results. Indicate whether or not material is acceptable for intended use.
- B. If the concrete mix designs specified herein have not been used previously by the ready-mix supplier, mix proportions and concrete strength curves for regular cylinder tests shall be established by an approved ready-mix supplier or an independent testing laboratory based on the relationship of 7, 14 and 28 day strengths versus slump values of 2, 4 and 6 inches, all conforming to these Specifications. A laboratory, independent of the ready-mix supplier, shall be required to prepare and test all concrete cylinders. The costs for preparation of mix designs, not previously used by the ready-mix supplier, and testing of concrete and materials shall be borne by CONTRACTOR.

PART 2 - PRODUCTS

2.1 CONCRETE MATERIALS

- A. Cement:
1. Portland cement, ASTM C150, Type II; or blended hydraulic cement, ASTM C595, Type 1P (MS).
 2. Do not use cement which has deteriorated because of improper storage or handling.
- B. Aggregates: ASTM C33 and as herein specified.
1. Do not use aggregates containing soluble salts, substances such as iron sulfides, pyrite, marcasite, ochre, or other materials that can cause stains on exposed concrete surfaces.
 2. Fine Aggregate: Provide clean, sharp, natural sand free from loam, clay, lumps or other deleterious substances.
 3. Coarse Aggregate: Provide clean, uncoated, processed aggregate containing no clay, mud, loam, or foreign matter, as follows:
 - a. Crushed stone, processed from natural rock or stone.
 - b. Coarse Aggregate Size: Size to be ASTM C33, Nos. 57 or 67, except that No. 467 may be used for footings, foundation mats and walls 16" or greater in thickness.

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- C. Water: Clean, free from injurious amounts of oils, acids, alkalis, organic materials or other substances that may be deleterious to concrete or steel.

2.2 CONCRETE ADMIXTURES

- A. Provide admixtures produced by established reputable manufacturers, and use in compliance with the manufacturer's printed instruction. Do not use admixtures that have not been incorporated and tested in the accepted mixes, unless otherwise authorized in writing by ENGINEER.
- B. Air-Entraining Admixtures: ASTM C260.
1. Product and Manufacturer: Provide one of the following:
 - a. Sika AER, as manufactured by Sika Corporation.
 - b. MasterAir AE 200, as manufactured by BASF.
 - c. Daravair, as manufactured by W.R. Grace & Conn.
 - d. Or approved equal.
- C. High-Range Water-Reducing Admixture ("Superplasticizer"): ASTM C494, Type F/G.
1. Superplasticizer shall be used in all Class A Concrete. Do not use high range water-reducing admixture containing more chloride ions than are contained in municipal drinking water. Add only at the job site to concrete in compliance with the manufacturer's printed instruction.
 2. Product and Manufacturer: Provide one of the following:
 - a. Sikament 320, as manufactured by Sika Corporation.
 - b. MasterGlenium, as manufactured by BASF.
 - c. Daracem-100, as manufactured by W.R. Grace & Conn.
 - d. Or approved equal.
- D. Water-Reducing Admixture: ASTM C 494, Type A.
1. A water-reducing, aqueous solution of a modification of the salt of polyhydroxylated organic acids. Do not use admixture containing any lignin, nitrates or chlorides added during manufacture.
 2. Product and Manufacturer: Provide one of the following:
 - a. Eucon WR-75, as manufactured by The Euclid Chemical Company.
 - b. MasterPozzoloth, as manufactured by BASF.
 - c. WRDA series, as manufactured by W.R. Grace & Conn.
 - d. Or approved equal.
- E. Pozzolanic Admixtures:
1. Pozzolanic admixtures shall not be used in structures with concrete in contact with potable water, but may be used in other concrete.
 2. Provide Mineral admixtures, when used, meeting the requirements of ASTM C618 Class F.
 3. A substitution by weight, of the portland cement by pozzolan, so that the total tricalcium aluminate content of the resulting cement plus pozzolan is not greater than 8%, will be considered. However, the pozzolan shall not exceed 20% by weight of the cement plus pozzolan.
- F. Set-Control Admixtures: ASTM C494, as follows:
1. Type B, Retarding.
 2. Type C, Accelerating.
 3. Type D, Water-reducing and Retarding.
 4. Type E, Water-reducing and Accelerating.

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5. Type F, Water-reducing, high range admixtures.
 6. Type G, Water-reducing, high range, and retarding admixtures.
- G. Calcium Chloride: Do not use calcium chloride in concrete, unless otherwise authorized in writing by ENGINEER. Do not use admixtures containing calcium chloride where concrete is placed against galvanized steel.

2.3 NSF/ANSI 61 CERTIFICATION

- A. Concrete that comes in direct contact with potable water shall include the following:
1. Admixtures shall be NSF-61 Certified.
 2. Concrete with admixtures not meeting NSF-61 water quality standards will be rejected.

2.4 PROPORTIONING AND DESIGN OF MIXES

- A. Prepare design mixes of concrete. Mixes subject to the following limitations:
1. Class A Concrete
 - a. Specified 28-day Compressive Strength:
 - 1) Prestressed Tank core walls and all Vault walls: 5,000 psi minimum.
 - 2) All other Class A Concrete: 4,000 psi minimum. 5,000 psi mix may be used.
 - b. Air content: 2.5% $\pm$ 1%.
 - c. Slump, before addition of superplasticizer: 3½" $\pm$ ½"
 - d. Slump, after addition of superplasticizer: 8" maximum

Coarse Aggregate Size	Cementitious Content-Pounds Per Cubic Yard	Water-Cement Ratio by Weight
¾"	625 min, 800 max	0.38
1"	600 min, 800 max	0.39

- e. Use superplasticizer in all Class A Concrete. Use water reducers in combination with superplasticizers as required for mixing.
 - f. Use ASTM C494, Type B set retarding admixture in all Class A Concrete used for wall construction in the amounts recommended by the additive manufacturer whenever the air temperature during the pour exceeds 85°F.
2. Class B Concrete
- a. Specified 28-day Compressive Strength: 2,500 psi.
 - b. Maximum Water-Cement Ratio by Weight: 0.49.
 - c. Slump: 3" Minimum, 5" Maximum.
- B. The total chloride ion content of hardened concrete shall not be more than 0.06 percent by weight of cement.
- C. Use an independent testing facility acceptable to ENGINEER for preparing and reporting proposed mix designs.
- D. Admixtures:
1. Use amounts of admixtures as recommended by the manufacturer for climatic conditions prevailing at the time of placing. Adjust quantities and types of admixtures as required to maintain quality control.

2.5 EPOXY BONDING AGENT

- A. For use in all dry-packed holes, concrete repair and for unplanned cold-joints.
- B. Provide an epoxy-resin bonding agent, two component, polysulfide type.
- C. Product and Manufacturer: Provide one of the following:
 - 1. Sikadur 32, Hi-Mod LPL, as manufactured by Sika Corporation.
 - 2. Eucopoxy LPL, as manufactured by the Euclid Chemical Company.
 - 3. Or approved equal.

2.6 CONCRETE CURING MATERIALS

- A. Absorptive Cover: Burlap cloth made from jute or kenaf, weighing approximately 10 ounces per square yard and complying with AASHTO M182, Class 3.
- B. Moisture-Retaining Cover: One of the following, complying with ASTM C171.
 - 1. Waterproof paper.
 - 2. Polyethylene film.
 - 3. White burlap-polyethylene sheet.
- C. Curing Compound:
 - 1. Where compound is used on potable water bearing structures provide NSF-61 Certified:
 - a. Product and Manufacturer: Provide one of the following:
 - 1) Quantum-Cure 61, as manufactured by Atlas Tech Products.
 - 2) Or approved equal.
 - 2. Where compound is used on non-potable concrete surfaces: ASTM C309 Type 1-D (water retention requirements):
 - a. Product and Manufacturer: Provide one of the following:
 - 1) Super Aqua Cure VOX, as manufactured by The Euclid Chemical Company.
 - 2) Sealtight 1100, as manufactured by W.R. Meadows, Incorporated.
 - 3) Or approved equal.

2.7 EMBEDDED ITEMS

- A. Provide and install items such as plates, angles, inserts, bolts and similar items not specified elsewhere under this Section. Carbon steel embedded items shall be hot dip galvanized after fabrication.

PART 3 - EXECUTION

3.1 CONCRETE MIXING

- A. Provide concrete produced by the ready-mixed process.
- B. Comply with the requirements of ASTM C 94, and as herein specified. Proposed changes in mixing procedures, other than herein specified, must be accepted by ENGINEER before implementation.
 - 1. Plant equipment and facilities: Conform to National Ready- Mix Concrete Association "Plant and Delivery Equipment Specification."

2. Mix concrete in revolving type truck mixers that are in good condition and which produce thoroughly mixed concrete of the specified consistency and strength.
3. Do not exceed the proper capacity of the mixer.
4. Mix concrete for a minimum of two minutes after arrival at the job site, or as recommended by the mixer manufacturer.
5. Mix concrete during transit only as recommended by the mixer manufacturer.
6. Mix at proper speed until concrete is discharged.
7. Maintain adequate facilities at the job site for continuous delivery of concrete at the required rates.
8. Provide access to the mixing plant for ENGINEER at all times.

3.2 TRANSPORTING CONCRETE

- A. Transport and place concrete not more than 90 minutes after water has been added to the dry ingredients or before 250 revolutions of the drum or blades, whichever occurs first.
- B. If an admixture is used to retard the set time and the concrete temperature does not exceed 85 degrees F, the travel and placing time may be extended to 120 minutes or 300 revolutions of the drum or blades, whichever occurs first.
- C. Take care to avoid spilling and separation of the mixture during transportation.
- D. Do not place concrete in which the ingredients have been separated.
- E. Do not retemper partially set concrete.
- F. Use suitable and approved equipment for transporting concrete from mixer to forms.

3.3 CONCRETE PLACEMENT

- A. Pre-wet granular fill below concrete floor slabs and footings to a saturated surface dry condition immediately prior to pouring concrete.
- B. General: Place concrete continuously so that no concrete will be placed on concrete, which has hardened sufficiently to cause the formation of seams or planes of weakness within the section. If a section cannot be placed continuously, provide construction joints as specified in Section 03251, Concrete Joints. Deposit concrete as nearly as practical in its final location to avoid segregation due to rehandling or flowing. Do not subject concrete to any procedure that will cause segregation.
 1. Screed concrete that is to receive other construction to the proper level to avoid excessive skimming or grouting.
 2. Do not use concrete which becomes non-plastic and unworkable, or does not meet the required quality control limits, or which has been contaminated by foreign materials. Do not use retempered concrete. Remove rejected concrete from the job site and dispose of it in an acceptable location.
 3. Do not place concrete until all forms, bracing, reinforcement, and embedded items are in final and secure position.
 4. Do not place in cold weather, unless adequate precautions are taken against frost action.
 5. Do not place footings or slabs on frozen soil.
 6. Unless otherwise approved, place concrete only when ENGINEER is present.

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7. Allow a minimum of 3 days of curing before placing new concrete against a slab or wall already in place.
- C. Concrete Conveying:
1. Handle concrete from the point of delivery and transfer to the concrete conveying equipment and to the locations of final deposit as rapidly as practical by methods that will prevent segregation and loss of concrete mix materials.
 2. Provide mechanical equipment for conveying concrete to ensure a continuous flow of concrete at the delivery end. Provide runways for wheeled concrete conveying equipment from the concrete delivery point to the locations of final deposit. Keep interior surfaces of conveying equipment, including chutes, free of hardened concrete, debris, water, ice and other deleterious materials.
 3. Pumping concrete is permitted, however do not use aluminum pipe for conveying.
- D. Placing Concrete into Forms:
1. Deposit concrete in forms in horizontal layers not deeper than 24" and in a manner to avoid inclined construction joints. Where placement consists of several layers, place concrete at such a rate that concrete that is being integrated with fresh concrete is still plastic.
 2. Do not permit concrete to free fall within the form from a distance exceeding 8'-0", except as noted in Section 03100. Use "elephant trunks" or "wall pipes" to prevent free fall and excessive splashing on forms and reinforcement.
 3. Remove temporary spreaders in forms when concrete placing has reached the elevation of such spreaders.
 4. Consolidate concrete placed in forms by mechanical vibrating equipment supplemented by hand-spading, rodding or tamping. Use equipment and procedures for consolidation of concrete in accordance with the applicable recommended practices of ACI 309. Vibration of forms and reinforcing will not be permitted.
 5. Vibrators shall have a frequency of at least 8,000 vpm, with amplitude required to consolidate the concrete in the section being placed. At least one stand-by vibrator in operable condition shall be at the placement site prior to initiating placement of the concrete.
 6. Do not use vibrators to transport concrete inside of forms. Insert and withdraw vibrators vertically at uniformly spaced locations not farther than the visible effectiveness of the machine. Place vibrators to rapidly penetrate the layer of concrete and at least 6" into the preceding layer. Do not insert vibrators into lower layers of concrete that have begun to set. At each insertion, limit the duration of vibration to the time necessary to consolidate the concrete and complete embedment of reinforcement and other embedded items without causing segregation of the mix.
 7. The forms shall contain sufficient windows or be limited in height to allow visual observation of the concrete and the vibrator operators shall be required to see the concrete being consolidated to ensure good quality workmanship or the CONTRACTOR shall have a person who is actually observing the vibration of the concrete at all times and advising the vibrator operators of any changes needed to assure complete consolidation.
 8. Do not place concrete in beam and slab forms until the concrete previously placed in columns and walls is no longer plastic.
 9. Force concrete under pipes, sleeves, openings and inserts from one side until visible from the other side to prevent voids.
 10. The following minimum equipment, which must be in excellent working condition, shall be available on the site for every concrete placement operation on prestressed concrete floor, wall and roof:

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- a. Conveying: 2 pumps, or 2 cranes, or 1 pump and 1 crane (for floor and roof decks only).
 - b. Vibrating: 3 vibrators of 14,000 vibrations per minute (minimum).
 - c. Trowelling: 2 power operated troweling machines (for floor and roof decks only).
 - d. ENGINEER shall be the sole judge as to the acceptability of the equipment as to its condition and capacity. CONTRACTOR shall assume complete responsibility for having adequate equipment.
- E. Placing Concrete Slabs and Footings:
- 1. Deposit and consolidate concrete in a continuous operation, within the limits of construction joints, until the placing of a panel or section is completed.
 - 2. Consolidate concrete during placing operations using mechanical vibrating equipment, so that concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 - 3. Consolidate concrete placed in beams and girders of supported slabs, and against bulkheads of slabs on ground, as specified for formed concrete structures.
 - 4. Bring surfaces to the correct level. Smooth the surface, leaving it free of humps or hollows. Do not sprinkle water on the plastic surface. Do not disturb the surfaces prior to beginning finishing operations.
- F. Bonding for Next Concrete Pour: Per Section 03251, Concrete Joints.
- G. Quality of Concrete Work:
- 1. Make all concrete solid, compact and smooth, and free of laitance, cracks and cold joints.
 - 2. All concrete for liquid retaining structures, and all concrete in contact with earth, water, or exposed directly to the elements shall be watertight.
 - 3. Cut out and properly replace to the extent ordered by ENGINEER, or repair to the satisfaction of ENGINEER, surfaces which contain cracks or voids, are unduly rough, or are in any way defective. Thin patches or plastering will not be acceptable.
 - 4. Repair all leaks through concrete, and cracks, holes or other defective concrete in areas of potential leakage and make watertight.
 - 5. Repair, remove, and replace defective concrete as ordered by ENGINEER at no additional cost to OWNER.
- H. Cold Weather Placing:
- 1. Protect all concrete Work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures, in compliance with the requirements of ACI 306 and as herein specified.
 - 2. When the air temperature has fallen to or may be expected to fall below 40°F, provide adequate means to maintain the temperature, in the area where concrete is being placed, at between 50°F and 70°F for at least seven days after placing. Provide temporary housings or coverings including tarpaulins or plastic film. Maintain the heat and protection, if necessary, to ensure that the ambient temperature does not fall more than 30°F in the 24 hours following the seven-day period. Avoid rapid dry-out of concrete due to overheating, and avoid thermal shock due to sudden cooling or heating.
 - 3. When air temperature has fallen to or is expected to fall below 40°F, uniformly heat all water and aggregates before mixing as required to obtain a concrete mixture temperature of not less than 55°F and not more than 85°F at point of placement.
 - 4. Do not use frozen materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials. Ascertain that forms,

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reinforcing steel, and adjacent concrete surfaces are entirely free of frost and ice before placing concrete.

5. When temperatures are expected to be below 32°F the night before the concrete is placed, then all reinforcing steel, forms and the ground shall be preheated, for a minimum of 12 hours, under a minimum temperature of 50°F.
6. Do not use salt and other materials containing antifreeze agents or chemical accelerators, or set-control admixtures, unless approved by ENGINEER, in mix designs.
7. Weather predictions made by the nearest NOAA station, and corrected for the local elevation and environmental conditions, may be used to determine whether cold weather protection shall be required. Thermometers will be used by ENGINEER and these readings shall determine whether cold weather protection shall be required and whether cold weather protection is adequate.

I. Hot Weather Placing:

1. When hot weather conditions exist as any combination of high air temperature, low relative humidity and wind velocity that would seriously impair the quality and strength of concrete, place concrete as recommended by ACI 305 and as herein specified.
2. Cool ingredients before mixing to maintain concrete temperature at time of placement below 85°F. No concrete shall be placed if its temperature exceeds 90°F. Mixing water may be chilled, or chopped ice may be used, or liquid nitrogen may be added. Ice, when introduced into the mixer shall be in such form that it will be completely melted and dispersed throughout the mix at the completion of the mixing time. The addition of ice shall not increase the specified water to cement ratio.
3. Cover reinforcing steel with water-soaked burlap if it becomes too hot, so that the steel temperature will not exceed the ambient air temperature immediately before embedment in concrete.
4. Thoroughly wet forms before placing concrete. Forms shall be free of standing water when concrete is placed.
5. Do not use set-control admixtures, unless approved by ENGINEER in mix designs.
6. Fog spray shall be used during finishing operations whenever necessary to avoid surface plastic shrinkage cracking. Fog spray shall also be used after finishing and before the specified curing is commenced to avoid surface plastic shrinkage cracking.
7. Obtain ENGINEER'S approval of other methods and materials proposed for use.

J. Removal of Forms:

1. The CONTRACTOR shall be responsible for all damage resulting from improper and premature removal of forms. Satisfy all applicable OSHA requirements with regard to safety of personnel and property.
2. Forms and shoring for elevated structural slabs shall remain in place in accordance with ACI 318, Chapter 6, and until the concrete has reached a compressive strength equal to 100% of the specified 28-day compressive strength as determined by test cylinders, unless noted otherwise in Section 03100 - Concrete Formwork. Removal of all supports prior to obtaining adequate field cured cylinder results and reshoring shall not be permitted.

K. Backfill Against Walls:

1. Do not place backfill against walls until the concrete has obtained a compressive strength equal to the specified 28-day compressive strength and prestressing is complete. Where backfill is to be placed on both sides of the wall, the backfill shall be placed simultaneously on both sides to prevent differential pressures.

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2. Since the walls of some structures are laterally restrained or supported by suspended slabs and/or slabs on grade and are not designed as cantilever retaining walls, the CONTRACTOR shall submit a schedule of wall shoring, bracing, and backfilling that is coordinated with the concrete curing, test cylinder reports and the design assumptions and obtain a review from the ENGINEER prior to proceeding.

L. Patching:

1. Patching of concrete shall provide an acceptable and structurally sound surface finish uniform in appearance or the CONTRACTOR shall upgrade the finish by other means at no additional cost.
2. Tie Holes: All tie holes, except where sealant is indicated, shall be filled with dry pack nonshrink grout. White cement shall be added as needed so the color of grout after curing matches the color of adjacent concrete. Tie holes shall be thoroughly sandblasted or roughened. Flush the patch area with water and allow to dry. Coat the surface of the existing concrete with an approved bonding agent prior to filling with nonshrink grout. Complete the repair in the time duration specified by the bonding agent manufacturer. The grout shall be rammed into place in thin layers and leveled to the plane of the surrounding concrete. Cure in accordance with the manufacturer's recommendations.
3. Defective Areas: Remove all defective concrete such as honeycombed areas and rock pockets out to sound concrete. Small shallow holes caused by air entrapment at the surface of the forms shall not be considered defects unless the amount is so great as to be considered not the standard of the industry and due primarily of poor workmanship. If chipping is required, the edges shall be perpendicular to the surface. Feather edges shall not be permitted. The defective area shall be filled with a nonshrink, nonmetallic, grout. Use an approved bonding agent on horizontal patches prior to placing nonmetallic, non shrink grout. Since some bonding agents may not be compatible for some vertical surface patching techniques, demonstrate all methods for repair of vertical surfaces using the actual materials, methods, and curing procedures required by the manufactures of the materials on the project site. The CONTRACTOR shall consult with representatives of the bonding agent manufacturer and the nonshrink grout manufacturer, and these representatives shall be onsite and assist in the demonstration.
4. Blockouts at Pipes or Other Penetrations: Conform to details shown or submit proposed blockouts for review. Use nonshrink, nonmetallic grout.

3.4 FINISH OF FORMED SURFACES

A. Abrasive Blasting:

1. The exterior surface of poured concrete wall areas, which will receive strand wrapped prestressing/shotcrete or paint, if any, shall be abrasive blasted, regardless of the forming method used, by a mechanical etching or shot blast system combined with a vacuum recovery system, or a self-contained water blasting system.
2. The surface shall be blasted sufficiently to remove all laitance, form oil or other type coatings.
3. The surface shall be cut sufficiently to provide a good mechanical bond between the shotcrete covercoat and the concrete wall. The surface shall be cut to a minimum CSP5 profile, was established by the International Concrete Repair Institute (ICRI), over a minimum 90% of the area as measured over any one-foot square area.
4. Systems that have not been used in the past to prepare circular tank wall surfaces for shotcreting and strand wrapping or systems which rely on sandblasting or steel shot without a vacuum system will not be allowed.

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5. All abrasive blasting shall be done to the satisfaction of ENGINEER, and this work shall not be started before the completion date of the curing period or before all the tie holes have been dry packed.
- B. Rough Form Finish:
1. Standard rough form finish is with concrete surface having the texture imparted by the form material, with tie holes and defective areas repaired and patched with mortar of 1 part cement to 1½ parts sand & all fins and other projections exceeding 1/4" in height rubbed down or chipped off.
 2. Use rough form finish for the following:
 - a. Where not abrasive blasted, exterior vertical surfaces up to 1' below grade.
- C. Smooth Form Finish:
1. Provide a surface finish Environmental Surface Finish 2.0, ESF-2.0, per ACI 350.5-12 which includes patching voids greater than 3/4-in wide or 1/4-inch deep, removing projections greater than 1/4-in, and patching tie holes. Abrupt irregularities shall be measured within 1-inch of the irregularity. Gradual surface irregularities shall be measured by determining the gap between concrete and near surface of a 5-foot vertical straightedge, measured between contact points. Finish shall be approved using a mockup demonstration of the concrete surface showing the appearance and texture.
 2. Except where surfaces have been previously covered as specified above, use smooth finish for the following:
 - a. Interior walls and other interior vertical surfaces.
 - b. Undersides of suspended slabs.
 - c. Other areas shown.
- D. Smooth Rubbed Finish:
1. Provide smooth, rubbed finish to concrete surfaces which have received smooth form finish as follows:
 - a. Rubbing of concrete surfaces not later than the day after form removal.
 - b. Moistening of concrete surfaces and rubbing with carborundum brick or other abrasive until a uniform color and texture is produced. Do not apply cement grout other than that created by the rubbing process.
 2. Except where surfaces have been previously covered as specified above, use smooth rubbed finish for the following:
 - a. Exterior exposed walls and other vertical surfaces down to 1' below grade.
 - b. Other areas shown.
- E. Related Unformed Surfaces:
1. At tops of walls, horizontal offsets, and similar unformed surfaces occurring adjacent to formed surfaces, strike off smooth and finish with a texture matching the adjacent formed surfaces. Continue the final surface treatment of formed surfaces uniformly across the adjacent unformed surfaces, unless otherwise shown.

3.5 MONOLITHIC SLAB FINISHES

- A. Float Finish:
1. After placing concrete slabs, do not work the surface further until ready for floating. Begin floating when the surface water has disappeared or when the concrete has stiffened sufficiently. Check and level the surface plane to a tolerance not exceeding 1/4" in 10' when tested with a 10' straightedge. Cut down high spots and fill all low

spots. Uniformly slope surface to drains as shown. Immediately after leveling, refloat the surface to a uniform, smooth, granular texture.

2. Use float finish for the following:
 - a. Exterior below grade horizontal surfaces.
 - b. Surfaces to receive additional finishes, except as shown or specified.
- B. Trowel Finish:
 1. After floating, begin the first trowel finish operation using a power-driven trowel. Begin final troweling when the surface produces a ringing sound as the trowel is moved over the surface.
 2. Consolidate the concrete surface by the final hand troweling operation. Finish shall be free of trowel marks, uniform in texture and appearance, and with a surface plane tolerance not exceeding 1/8" in 10' when tested with a 10' straight edge. Grind smooth surface defects that would telegraph through applied floor covering system.
 3. Use trowel finish for the following:
 - a. Interior exposed slabs, unless otherwise shown or specified.
- C. Non-Slip Broom Finish:
 1. Immediately after float finishing, slightly roughen the concrete surface by brooming in the direction perpendicular to the main traffic route. Use fiber-bristle broom, unless otherwise directed. Coordinate the required final finish with ENGINEER before application.
 2. Use Non-Slip Broom Finish for the following:
 - a. Exterior exposed horizontal.
 - b. Interior and exterior concrete steps and ramps.

3.6 CONCRETE CURING AND PROTECTION

- A. General:
 1. Protect freshly placed concrete from premature drying and excessive cold or hot temperature, and maintain without drying at a relatively constant temperature for the period of time necessary for hydration of the cement and proper hardening of the concrete.
 2. Start initial curing after placing and finishing concrete as soon as free moisture and bleed water sheen has disappeared from the concrete surface. Keep concrete continuously moist during initial curing.
 3. Begin final curing procedures immediately following initial curing and before the concrete has dried. The total curing duration shall not be less than ten (10) days. Avoid rapid drying at the end of the final curing period.
- B. Use one of the following methods as approved by ENGINEER:
 1. Walls:
 - a. Method 1: Leave concrete forms in place and keep exposed concrete surfaces wet for the entire curing duration. If forms are loosened and the contact between the concrete surface and forms is broken and the forms left in place, then the entire wall shall be wet cured.
 - b. Method 2: Continuously sprinkle or fog with water 100 percent of the exposed surfaces for the curing duration immediately after removal of forms.
 - c. Method 3: When approved by ENGINEER and as noted below, apply curing compound immediately after removal of forms.
 2. Prestressed Concrete Slabs and Curbs: All horizontal, floated and troweled surfaces shall be sprayed with a curing compound at an application rate of 200 sf per gallon immediately after finishing. After the surface is dry to the touch, a moisture-retaining

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covering shall be installed. The seams and ends shall be carefully taped with waterproof tape and sealed to the concrete surface and kept on such surface for as long as possible, but for at least ten (10) days after placement, to minimize the loss of moisture trapped between the cover and the concrete.

- a. Water must be introduced between the moisture-retaining cover and the concrete (after the concrete has set) whenever moist drops cannot be detected on the concrete side of the cover or the concrete surface is noticeably dry.
 - b. Immediately repair any holes or tears during the curing period using cover material and waterproof tape.
3. Slab and Curbs not including prestressed concrete tanks:
- a. Method 1: Protect surface by water ponding for the entire curing duration.
 - b. Method 2: Cover concrete surfaces and exposed edges with the specified absorptive cover, thoroughly saturating the cover with water, and keeping the absorptive cover continuously wet with sprinklers or porous hoses during the curing duration. Lap adjacent absorptive cover sections 3-inches minimum.
 - c. Method 3: Cover the concrete surfaces and exposed edges with the specified moisture-retaining cover during the curing duration. Seal edges and seams with waterproof tape, adhesive or sand berm. Water must be introduced between the moisture-retaining cover and the concrete surface whenever moist drops cannot be detected on the concrete side of the cover or the concrete surface is noticeably dry.
 - d. Method 4: Cover all exposed surfaces with 1-inch minimum layer of wet sand, earth, or sawdust and keep continuously wet for the curing duration.
 - e. Method 5: Continuously sprinkle or fog exposed surfaces for the curing duration.
 - f. Method 6: When approved by ENGINEER and as noted below, apply liquid curing compound immediately after final finishing when surface will no longer be damaged by traffic necessary to apply curing compound.
- C. Liquid curing compound:
1. Apply the specified curing compound to concrete surfaces when permitted by ENGINEER. Slabs to receive terrazzo floors, concrete/grout topping or ceramic tile, concrete of water bearing structures, and concrete that will receive coatings shall not be cured with liquid curing compound. The compounds shall be applied by power spray equipment in accordance with the manufacturer's directions. Recoat areas, which are subjected to heavy rainfall within 3 hours after initial application. Maintain the continuity of the coating and repair damage to the coat during the entire curing period. Remove curing compound from exposed surfaces at the end of the curing duration. For concrete surfaces, which will be in contact with potable water, the manufacturer shall certify that the curing compound used is NSF 61 approved.
- D. Temperature of Concrete During Curing:
1. When the nighttime low temperature may drop to 40°F or below, maintain the concrete temperature between 50°F and 70°F continuously throughout the curing period, by heating, covering, insulation or housing as required.
 2. When the daytime high temperature may rise to 90°F or above, maintain the concrete temperature at a minimum and reduce temperature variations by providing moist curing continuously for the concrete curing period.
 3. During either of the conditions specified above, the minimum curing time shall be 10 days (240 hours), after which coverings, housings, and insulation shall remain on the work for an additional 3 days, to allow gradual temperature equalization with the atmosphere.

- E. Protection from Mechanical Injury: During the curing period, protect concrete from damaging mechanical disturbances including load stresses, heavy shock, excessive vibration, and from damage caused by rain or flowing water. Protect all finished concrete surfaces from damage by subsequent construction operations.

3.7 FIELD QUALITY CONTROL

- A. The OWNER will employ a testing laboratory to perform field quality control testing. ENGINEER will direct the number of tests and cylinders required. Furnish all necessary assistance required by ENGINEER.
- B. Quality Control Testing During Construction:
 - 1. Perform sampling and testing for field quality control during the placement of concrete, as follows:
 - a. Sampling Fresh Concrete: ASTM C172.
 - b. Slump: ASTM C143; one test for each concrete load at point of discharge; and one for each set of compressive strength test specimens.
 - c. Compressive Strength Tests: ASTM C39; one set of 4 standard compression cylinders for each 100 cubic yards or fraction thereof, of each mix design placed in any one day; 1 specimen tested at 7 days, and 2 specimens tested at 28 days, 1 held. Cast, store and cure specimens as specified in ASTM C31.
 - 1) Adjust mix if test results are unsatisfactory and resubmit for ENGINEER'S approval.
 - 2) Concrete that does not meet the strength requirements is subject to rejection and removal from the Work, or to other such corrective measures as directed by ENGINEER, at the expense of CONTRACTOR.
 - 3) In addition to the test cylinders referred to in Section 03300.3.7.B.1.c, an additional 3 test cylinders shall be made for each day's pour, or for every 4,000 square feet of wall and roof surface, whichever provides the largest number of cylinders. They shall be cured in the same manner, and in the same location of the concrete area to be investigated. Before walls may be prestressed, or before roof forms may be stripped, at least one cylinder, of each batch of 3 cylinders, must be tested to verify whether the in place concrete strength meets the minimum specified design strength.
 - d. Concrete Temperature: Test each time a slump test is made.
 - 2. Where questionable field conditions may exist during placing concrete or immediately thereafter, strength tests of specimens cured under field conditions will be required by ENGINEER to check the adequacy of curing and protecting of the concrete placed. Specimens shall be molded at the same time and from the same samples as the laboratory cured specimens.
 - a. Provide improved means and procedures for protecting concrete when the 28-day compressive strength of field- cured cylinders is less than 85% of companion laboratory-cured cylinders.
 - b. When laboratory-cured cylinder strengths are appreciably higher than the minimum required compressive strength, field-cured cylinder strengths need not exceed the minimum required compressive strength by more than 500 psi even though the 85 percent criterion is not met.
 - 3. The testing laboratory shall submit certified copies of test results directly to ENGINEER and CONTRACTOR after tests are made.
- C. Evaluation of Quality Control Tests:

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1. Do not use concrete delivered to the final point of placement that has slump or temperature outside the specified values, nor that which is older than 90 minutes from batching, unless a retarding admixture is used as indicated in section 3.2.
 2. Compressive strength tests for laboratory-cured cylinders will be considered satisfactory if the averages of all sets of three consecutive compressive strength tests results equal or exceed the 28-day design compressive strength of the type or class of concrete; and, no individual strength test falls below the required compressive strength by more than 500 psi.
 3. If the compressive strength tests fail to meet the minimum requirements specified, the concrete represented by such tests will be considered deficient in strength and subject to replacement, reconstruction or to other action approved by ENGINEER.
- D. Testing Concrete Structure for Strength:
1. When there is evidence that the strength of the in-place concrete does not meet specification requirements, provide the services of a concrete testing service to take cores drilled from hardened concrete for compressive strength determination at no additional expense to OWNER. Provide tests complying with ASTM C42 and the following:
 - a. Take at least three (3) representative cores from each member or suspect area at locations directed by ENGINEER.
 - b. Strength of concrete for each series of cores will be considered satisfactory if their average compressive strength is at least 85% and no single core is less than 75% of the 28-day required compressive strength.
 - c. Report test results, in writing, to ENGINEER on the same day that tests are made. Include in test reports the Project identification name and number, date, name of CONTRACTOR, name of concrete testing service, location of test core in the structure, type or class of concrete represented by core sample, nominal maximum size aggregate, design compressive strength, compression breaking strength and type of break (corrected for length-diameter ratio), direction of applied load to core with respect to horizontal plane of the concrete as placed, and the moisture condition of the core at time of testing.
 2. Fill core holes solid with non-shrink, high strength grout, and finish to match adjacent concrete surfaces.
- E. Water Leakage Tests for All Water-Holding Structures:
1. For prestressed concrete tanks, reference Section 03314 - Prestressed Concrete Tanks for requirements.

3.8 MISCELLANEOUS CONCRETE ITEMS

- A. Filling-In: Fill-in holes and openings left in concrete structures for the passage of work by other contractors, unless otherwise shown or directed, after the work of other contractors is in place. Mix, place and cure concrete as herein specified, to blend with in-place construction. Provide all other miscellaneous concrete filling shown or required to complete the Work.
- B. Curbs:
1. Provide monolithic finish to interior curbs by stripping forms while concrete is still green and steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded.
 2. Exterior curbs shall have rubbed finish for vertical surfaces and a broomed finish for top surfaces.

C. Equipment Bases:

1. Unless specifically shown otherwise, provide concrete bases for all pumps and other equipment. Construct bases to the dimensions shown, or as required to meet manufacturers' requirements and drawing elevations. Where no specific elevations are shown, bases shall be 6-inches thick and extend 3-inches outside the metal equipment base or supports. Bases to have smooth trowel finish, unless a special finish is required. In those cases, provide appropriate concrete finish.
2. Include all concrete equipment base work not specifically included under other Sections.
3. In general, place bases up to 1-inch below the metal base. Properly shim equipment to grade and fill 1-inch void with non-shrink grout as specified in Section 03600, Grout.

D. Installation of embedded items

1. Install all embedded items prior to concrete placement, or, if necessary, as soon after concrete placement as possible, before concrete is set.
2. Use temporary support and bracing to keep embedded items in place while concrete cures.
3. Protect all embedded items from damage during concrete installation.

3.9 CONCRETE REPAIRS

A. Repair of Formed surfaces:

1. Repair exposed-to-view formed concrete surfaces that contain defects which adversely affect the appearance of the finish. Surface defects that require repair include color and texture irregularities, cracks, spalls, air bubbles, honeycomb, rock pockets, and holes left by the rods and bolts; fins and other projections on the surface; and stains and other discolorations that cannot be removed by cleaning.
2. Repair concealed formed concrete surfaces that may contain defects that adversely affect the durability of the concrete. Surface defects that require repair include cracks in excess of 0.01-inch wide, cracks of any width and other surface deficiencies which penetrate to the reinforcement or completely through non-reinforced sections, honeycomb, rock pockets, holes left by tie rods and bolts, and spalls except minor breakage at corner.
3. Repair structural cracks and cracks in water-holding structures.

B. Method of Repair of Formed Surfaces:

1. Repair and patch defective areas with cement mortar immediately after removal of forms and as directed by ENGINEER.
2. Cut out honeycomb, rock pockets, voids over 1/2" diameter, and holes left by tie rods and bolts, down to solid concrete but, in no case, to a depth of less than 1". Make edges of cuts perpendicular to the concrete surface. Before placing the cement mortar, thoroughly clean, dampen with water, and brush-coat the area to be patched with the specified bonding agent.
 - a. For exposed-to-view surfaces, blend white portland cement and standard portland cement so that, when dry, the patching mortar color will match the color of the surrounding concrete. CONTRACTOR shall impart texture to repaired surfaces to match texture of existing adjacent surfaces. Provide test areas at inconspicuous locations to verify mixture, texture and color match before proceeding with the patching. Compact mortar in place and strike off slightly higher than the surrounding surface.

3. Cracks which require repair shall be pressure grouted, epoxy injected, using one of the following in accordance with Section 03740. Apply in accordance with the manufacturer's directions and recommendations.
 - a. Sikadur 35, Hi-Mod L.V. and Sikadur 31, Hi-Mod Gel, as manufactured by Sika Corporation Company.
 - b. Or approved equal.
 4. Fill holes extending through concrete by means of a plunger- type gun or other suitable device from the least exposed face, using a flush stop held at the exposed face to ensure completely filling.
 5. Sandblast exposed-to-view surfaces that require removal of stains, grout accumulations, sealing compounds, and other substances marring the surfaces. Use sand finer than No. 30 and air pressure from 15 to 25 psi.
- C. Repair of Unformed Surfaces:
1. Test unformed surfaces, such as monolithic slabs, for smoothness and to verify surface plane to the tolerances specified for each surface and finish. Correct low and high areas as herein specified.
 2. Test unformed surfaces sloped to drain for trueness of slope, in addition to smoothness, using a template having the required slope. Correct high and low areas as herein specified.
 3. Repair finish of unformed surfaces that contain defects which adversely affect the durability of the concrete. Surface defects, as such, include crazing, cracks in excess of 0.01-inch wide or which penetrate to the reinforcement or completely through non-reinforced sections regardless of width, spalling, popouts, honeycomb, rock pockets, and other objectionable conditions.
 4. Repair structural cracks and cracks in water-holding structures.
- D. Methods of Repair of Unformed Surfaces:
1. Correct high areas in unformed surfaces by grinding, after the concrete has cured sufficiently so that repairs can be made without damage to adjacent areas.
 2. Correct low areas in unformed surfaces during, or immediately after completion of surface finishing operations by cutting out the low areas and replacing with fresh concrete. Finish repaired areas to blend into adjacent concrete. Use one of the following. Apply in accordance with the manufacturer's directions and recommendations.
 - a. Euco Poly-Patch, as manufactured by The Euclid Chemical Company.
 - b. Sikatop 122, as manufactured by Sika Corporation.
 - c. Or approved equal.
 3. Repair defective areas, except random cracks and single holes not exceeding 2" diameter, by cutting out and replacing with fresh concrete. Remove defective areas to sound concrete with clean, square cuts, and expose reinforcing steel with at least 3/4" clearance all around. Dampen all concrete surfaces in contact with patching concrete and brush with the specified bonding agent. Place patching concrete before grout takes its initial set. Mix patching concrete of the same materials and proportions to provide concrete of the same type or class as the original adjacent concrete. Place, compact and finish as required to blend with adjacent finished concrete. Cure in the same manner as adjacent concrete.
 4. Repair isolated random cracks, as approved by ENGINEER, and single holes not over 2" diameter, by the dry-pack method. Groove the top of cracks, and cut out holes to sound concrete and clean of dust, dirt and loose particles. Dampen all cleaned concrete surfaces and brush with the specified bonding agent. Place dry-pack before the cement grout takes its initial set. Mix dry-pack, consisting of 1 part portland cement to 2 parts fine aggregate passing a No. 16 mesh sieve, using only enough

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water as required for handling and placing. Compact dry-pack mixture in place and finish to match adjacent concrete. Keep patched areas continuously moist for not less than 72 hours.

5. Cracks which extend through the full member section, or any cracks determined by ENGINEER to require pressure grouting repair, shall be pressure grouted, epoxy injected, using one of the following in accordance with Section 03740. Apply in accordance with the manufacturer's directions and recommendations.
 - a. Sikadur 35, Hi-Mod L.V. and Sikadur 31, Hi-Mod Gel, as manufactured by Sika Corporation.
 - b. Or approved equal.
 6. Assure that surface is acceptable for flooring material to be installed in accordance with manufacturer's recommendations.
- E. Other Methods of Repair:
1. Repair methods not specified above may be used if approved by ENGINEER.

+ + END OF SECTION + +

SECTION 03314

PRESTRESSED CONCRETE TANK

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

1. This section covers the complete furnishing and installation of seven-wire strand and bars for circumferential and vertical prestressing, respectively, of concrete walls and the complete shotcreting operations. This section also covers the qualifications for the Contractor, the Tank Contractor, the Specialty Tank Prestressor and the Shotcreter. This section also covers general requirements for the tank and construction materials used in the tank. In the event of a discrepancy between this section of the Specifications and any other section of the Specifications, this section shall govern. The words "stressing machine" may refer to either circumferential wrapping machinery or vertical threadbar stressing equipment.
2. The Contractor shall furnish and erect a prestressed concrete tank of the capacity shown on the Drawings, consisting of a concrete roof, concrete floor and a poured in place concrete core wall, post tensioned vertically with steel rods and circumferentially with wrapped strand and protected with several coats of shotcrete and paint.
3. The tank shall conform to the dimensions and be equipped with the appurtenances shown on the Drawings and as specified herein.

1.2 REFERENCES

A. American Concrete Institute (ACI)

1. ACI 318, Building Code Requirements for Reinforced Concrete.
2. ACI 350, Environmental Engineering Concrete Structures.

B. American Water Works Association (AWWA)

1. D110-13, Wire- and Strand-Wound Circular, Prestressed Concrete Water Tanks

1.3 SCOPE OF WORK

A. Work by CONTRACTOR

1. Due to the nature of the project, it is the intent of these Specifications to obtain a first class product with emphasis on overall safety, quality and quality control, both during and after the construction process. Only Contractors experienced in the construction of strand wrapped prestressed concrete tanks are qualified to bid on and construct this tank project. Contractors shall have successfully completed at least five (5) circumferentially strand wrapped AWWA D110 Type 1 prestressed concrete tanks of at least 1.0 MG in capacity in the last ten (10) years. At least 2 of the above tanks shall have been in successful service for a minimum of five years. If the tank construction is subcontracted, the Tank Subcontractor, or one of its divisions, shall be required to meet the above-specified experience qualifications.

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2. In order to meet the experience requirements, the five (5) completed AWWA D110 Type 1 tanks shall be similar (i.e. freed wall base, poured-in-place core wall, externally machine strand wrapped, etc.) in design to the specified tank. Experience with tanks having fixed wall bases, mild-steel reinforced tank core walls, shotcrete tank core walls, precast tank core walls or tank core walls incorporating external solid wire wrapping systems or internal stressing systems shall not be considered in meeting the required experience requirements. All tanks listed for CONTRACTOR's experience requirements must have been built in CONTRACTOR's own name, or one of its divisions. Experience of personnel associated with CONTRACTOR or hired by the CONTRACTOR will not be considered unless CONTRACTOR can demonstrate that the work was contracted and performed directly by the listed Tank Contractor, or one of its divisions, in its business name.
3. The proposed Tank construction superintendent shall be currently employed by the qualified Tank Contractor, or one of its divisions, and shall have been the tank construction superintendent on no less than two (2) strand wrapped prestressed concrete tanks during the last five years. The qualified tank superintendent shall have been in the direct employment of the qualified Tank Contractor, or one of its divisions, for both of the tanks listed and will be required to be on the project site in responsible charge, full-time, during all tank concrete construction activities.
4. The OWNER is desirous of obtaining a prestressed concrete tank which will not develop structural and aesthetic problems. Therefore, as evidenced by these Specifications and Drawings, a strong emphasis on performance has been made to assure that desired details and proven construction methods be utilized to provide the highest quality structure available. For example, the stringent forming and pouring methods, the close tolerance continuously recorded circumferential prestressing and the automated shotcrete specified are only three of many ways that will help prevent structurally deficient problems from occurring during the service life of the tank. It is imperative that the specified features of these Documents be strictly adhered to and only bids from Contractors that have a successful performance record in prestressed concrete tank construction be considered.

B. Work by Specialty Tank Prestressor

1. No stressing system falling under any of the following requirements will be considered unless it has been successfully used on tanks of at least the same diameter, height and capacity. The Contractor shall submit with his bid the name and location of the Owner and the completion dates of ten (10) tanks on which the proposed qualifying "stressing machine" and automated shotcrete equipment has been used within the past five (5) years. All tanks listed for the Specialty Tank Prestressor's experience requirements must have been prestressed in the Specialty Tank Prestressor's own name, or one of its divisions. Experience of personnel associated with the Specialty Tank Prestressor or hired by the Specialty Tank Prestressor will not be considered unless the Specialty Tank Prestressor can demonstrate that the work was contracted and performed directly by the listed Tank Specialty Tank Prestressor, or one of its divisions in its business name. At the time of bid the qualified Tank Prestressor shall have a minimum of two operable strand wrapping and automated shotcrete machines meeting these requirements. Machines under construction shall not be considered in meeting the requirement of having two operable strand wrapping and automated shotcrete machines.

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2. Descriptive literature shall also be submitted with the bid showing the proposed machinery with the recorders and a typical copy of an actual recording of the applied forces taken from one of the jobs on which such machinery has been used. Any stressing system that will not provide the substantial equivalent of the above requirements will be rejected.
3. A bid will not be considered responsive unless such data has been submitted with the bid. This applies to the strand wrapping, threadbar stressing and automated shotcrete equipment.
4. Experience gained by the Specialty Tank Prestressor in machine single wire wrapping, internal tendon systems or external tendon systems shall not be considered in meeting the required experience requirements.
5. If subcontracted, the prestressing firm or individual(s) will be responsible to CONTRACTOR for the following phases of work:
 - a. Furnish, stress and pressure grout the vertical prestressing threadbars with epoxy.
 - b. Abrasive blast the exterior concrete core wall.
 - c. Furnish and install the horizontal prestressing strand.
 - d. Apply the shotcrete covercoat application over the strand.

1.4 SUBMITTALS

- A. Experience: The following information shall be required to be submitted:
 1. The name(s) of the proposed qualified Superintendent who will be in direct charge of the tank construction for the full duration of the Contract.
 2. A list of at least two reservoir jobs successfully completed by each of the Superintendents listed by the Tank Contractor, or one of its divisions, which shall include a tank description, the name and location of the Owner and the Consultant, and the approximate completion date of each tank while directly employed by the Tank Contractor, or one of its divisions.
 3. The name and address of the Tank Contractor, if different than the Contractor, and a list of at least five circumferentially strand wrapped AWWA D110 Type 1 prestressed concrete tanks of at least 1.0 MG capacity, similar in design to the tank specified herein, successfully completed by the Tank Contractor, or one of its divisions during the last ten years in its own name.
 4. The name and address of the Specialty Tank Prestressor, if different than the Tank Contractor or the Contractor, and the name and location of the Owner and the completion dates and location of ten structures on which the proposed qualifying strand wrapping prestressing system, meeting the substance of these Specifications requirements, has been used during the last 5 years.
 5. A list of at least two reservoir jobs successfully completed by the Superintendent(s) listed by the Specialty Tank Prestressor, or one of its divisions, which shall include a tank description, the name and location of the Owner and the Consultant, and the approximate completion date of each tank while directly employed by the Specialty Tank Prestressor, or one of its divisions. The listed Specialty Tank Prestressing Superintendent and/or Operator shall be a certified shotcrete nozzleman in accordance with ACI 506.
 6. Descriptive literature of the strand wrapping, the vertical prestressing and the automated shotcrete machinery meeting all these Specification requirements. Include in such data photographs or prints of the means of recording of both the circumferential and vertical prestressing applications and copies of actual photographs, print-outs or other records of applied wrapping forces (as well as force-elongation diagrams if available) taken from jobs in which the machinery

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has been used. Submit procedures for patching through floor entry tubes and the center pin bolts for the prestressing and shotcrete operations.

7. A written statement from the Specialty Tank Prestressor indicating that the Specialty Tank Prestressor, or one of its divisions has a minimum of two operable strand wrapping and automated shotcrete machines meeting these specifications.

B. Shop Drawings:

1. Contractor shall submit shop drawings of the circumferential prestressing wrapping schedule and the intermediate lock off elevations for the Engineer's approval before the wall pour is made.

C. Product Data:

1. Mill test certificates showing the dimensional and physical characteristics of each size, heat or reel of the prestressing steel he has furnished.
2. Prior to the preparation of shop drawings and installation of vertical threadbars, furnish evidence that the proposed threadbar anchorage system meets the requirements of these specifications. ENGINEER may order additional tests to be taken. Should such additional tests not meet the specifications, such expenses shall be paid for by CONTRACTOR; otherwise such expenses shall be borne by OWNER.
3. Furnish the shotcrete mix design meeting or exceeding the requirements of this specification.
4. Furnish product data for vertical threadbar ducts and vertical threadbar epoxy grout.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Prestressing steel shall be adequately packaged against intrusion of chemical contaminants (from the atmosphere or otherwise) for the protection of the steel against physical damage and corrosion during (and subsequently as the result of) shipping and storage.
- B. Prestressing steel that has sustained physical damage through rust or otherwise will be rejected.
- C. All materials and prestressing material delivered to the job site shall be stored off the ground on planks, supported by 4-inch x 4-inch timber, which must be covered with polyethylene or sizalkraft paper to prevent any moisture from coming up from the bottom.
- D. Reels of strand, prestressing threadbars, anchorages, etc., shall be stacked neatly and as compact as possible.
- E. All materials for threadbars and all fabricated tendons shall be covered with tarpaulins in such a manner that water, rain, moisture and dust are kept away.

PART 2 - PRODUCTS

2.1 PRODUCTS

- A. Seven-Wire Strand:

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1. Hot dip galvanized seven-wire strand used for prestressing shall meet the following minimum requirements:

Item	Specification
a. Nominal strand diameter	3/8"
b. Nominal area after galv	0.089 in ²
c. Nominal weight/1000 LF	303 lbs.
d. Pitch	12-16 (strand diam.)
e. Tensile strength	21,400 lbs. (min.)
f. Yield strength @ 1% extension	16,000 lbs. (min.)
g. Elongation in 24 inch at fracture	4.5% (min.)
h. Weight of zinc coating	0.85 oz./ft.2 (min.)

2. Hot dip galvanized seven-wire strand shall be manufactured in accordance with ASTM A416 prior to galvanizing. Each wire of the strand shall be individually hot dip galvanized before being stranded.
3. Single wire prestressing material shall not be utilized in lieu of seven-wire strand prestressing material.

B. High-Strength Threadbars:

1. Deformations of the threadbars shall form a screw thread suitable for mechanically coupling lengths of thread bar and for positive attachment of anchor assemblies.
2. Deformations shall conform to ASTM A722, Type II requirements and shall be uniform such that any length of bar may be cut at any point and the internal threads of a coupling designated for that size of bar can be freely screwed on the bar. The bars and their deformations shall be hot rolled.
3. Tensile and Physical Properties shall meet the following requirements with bars being manufactured in accordance with ASTM A722, Type II:

Item	Unit	Specifications
a. Nominal diameter	inches	1.25
b. Min. tensile force	kips (min.)	187
c. Yield force at 0.2% offset	kips (min.)	150
d. Elongation in 20 bar diameters	% (min.)	4
e. Nominal cross sectional area	sq. inches	1.245
f. Nominal bar weight	lbs/ft.	4.39
g. Min. ultimate strength	ksi	150

4. Note: To provide reduced relaxation, more uniform elastic modulus and reduced residual stress in the critical thread area, only threadbars that are stress relieved after the threads are formed will be accepted. All threadbars shall be proof stressed after stress relieving and threading. Threadbars with cold rolled threads or threadbars with quenched or tempered steels will not be permitted. Threadbars shall have a maximum carbon content of 0.55 percent. Only manufacturers with not less than 5 years of experience, under their current name, in the manufacturing of post-tensioning material meeting all the requirements of this specification will be accepted.

C. Anchorages for Vertical Post-Tensioned Threadbars:

1. All post tensioned prestressing shall be secured at the ends by means of approved permanent anchoring devices, which shall hold the prestressing steel at a force not less than 95% of the guaranteed minimum tensile strength of the prestressing steel.

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2. The load from the vertical prestressing anchoring device shall be distributed to the concrete through steel bearing plates of dimensions and details shown on the Drawings.
3. All vertical prestressing anchor plate dimensions, all dimensions relating to the conical hole in the top and bottom of the bearing plate (35° cone angle with the vertical), all steel tubing attached to the top bearing plate, and all threadbar spacing shall strictly conform to the details shown on the Drawings.
4. Fully threaded anchor connections shall be used at both ends of the vertical prestressing bar, which shall incorporate a spherical shaped bearing surface to match the conical surface in the bearing plate.
5. The contact point of the spherical shaped vertical prestressing bearing surface to conical hole shall be approximately ¼" to ½" below the bearing plate surface.
6. Wedge anchors shall not be used for permanent anchor hardware.

D. Anchor Pockets for Vertical Threadbars

1. Anchor pockets for vertical prestressing threadbars shall consist of steel cans, hot dip galvanized after cutting (unless shown otherwise on the Drawings) and subsequently welded to the top bearing plate.
2. Anchor pockets shall be adequately sealed from moisture and concrete intrusion by wooden lids and 2 inch wide plastic adhesive tape.
3. Anchor pockets for vertical prestressing threadbars must have adequate provisions for flushing of ducts with water during concrete placement.

E. Ducts for Vertical Threadbars:

1. Duct enclosures for vertical prestressing steel shall be standard 1.25" diameter PVC pipe class 160, unless otherwise specified on the Drawings.
2. All ducts shall be provided with expandable valves to facilitate the injection of epoxy after prestressing.
3. All connection details shall be as shown on the Drawings.

F. Epoxy Grout for Vertical Threadbars:

1. The vertical threadbar system shall offer complete 2 part epoxy protection of the prestressing steel inside ducting and anchors.
2. Portland Cement grout will not be accepted.

G. Shotcrete:

1. Fine aggregates:
 - a. Fine aggregates shall meet the requirements set out in Section 03300 of these Specifications.
 - b. A well-graded coarse sand shall be used for all shotcrete applications.
 - c. Coarse sand shall generally consist of the following gradation:

Sieve Size	% Passing by Weight
3/8 inch	100
No. 4	95-100
No. 8	80-100
No. 16	50-85
No. 30	25-60
No. 50	10-30
No. 100	2-10

The fineness modulus shall fall between 2.70 and 3.00.

2. Rebound:

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- a. Rebound is defined as aggregate mixed with some cements, which ricochets off the surface during the application of shotcrete because of collision with the harder surface, reinforcement, or with the aggregate particles themselves, which amount varies with the position of the work, air pressure, cement content, maximum size and grading of aggregate, amount of reinforcing and thickness of layer.
 - b. Rebound materials may not be reused in any form for shotcrete.
- 3. Water shall meet the requirements set out in Section 03300 of these Specifications.
- 4. Fibrous Shotcrete Reinforcement
 - a. All shotcrete, unless otherwise specified herein, shall be fibrous reinforced. Such material shall consist of 100 percent virgin polypropylene fibers specifically manufactured for use as concrete/shotcrete secondary reinforcement. The required volume of fibers to be added per cubic yard of shotcrete shall be as specified below under Shotcrete Proportioning.
 - b. Polypropylene fibers will help to provide greater control of cracking from drying shrinkage and thermal expansion/contraction, a reduction of permeability, an increased impact capacity, an improved shatter/abrasion resistance and added toughness of the shotcrete.
 - c. The fibers shall be manufactured in accordance with applicable building codes and ASTM C1116 Type III.
 - d. Acceptable polypropylene fibers shall have the following physical characteristics:
 - 1) Specific gravity = 0.91
 - 2) Fiber length = graded per manufacturer
 - e. Manufacturer:
 - 1) SI Concrete Systems, Fibermesh 150.
 - 2) Or approved equal.
- 5. Shotcrete Proportioning:
 - a. Each one cubic yard of mortar in the ready mix truck or mixer shall consist of 0.1% (1.5 lbs. per cubic yards) polypropylene fibers and a mix ratio of 3 lbs. of moist sand to 1 lb. of Portland cement. W.R. Grace Recover hydration stabilizer or approved equal may be added at the option of Shotcreter during warm weather conditions.
 - b. Whenever night temperatures are expected to drop below 35°F, ASTM C150, Type III Portland cement shall be used in lieu of Type II Portland cement. Should Type III Portland cement not be available, the mix design shall consist of a moist sand- Portland cement mix ratio, by weight, no greater than 2.59.
 - c. If the batching procedure requires that smaller volumes of cement and sand be used, the required cement to sand ratio shall still be strictly adhered to.
 - d. Additives other than a hydration stabilizer shall not be used unless specifically approved by ENGINEER, after careful consideration of its corrosive influence on prestressing steels.
 - e. If used by the shotcreter, the total volumetric air content of the shotcrete before placement shall not exceed 7 percent (plus or minus one percent) as determined by ASTM C173 or ASTM C231.
 - f. Unless otherwise shown on the Drawings, shotcrete cylinder strengths at 28 days shall be no less than 4,500 psi. Higher shotcrete cylinder strengths shall not permit a reduction in the above specified cement contents. The cement content in the above mix designs may be increased should the specified 28 day strength requirement not be met. Shotcrete shall have a maximum water-cementitious materials ratio of 0.40.

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- g. The polypropylene fibers and admixtures shall be added to the shotcrete at the time it is batched and in the amounts as required herein. Such additives shall be mixed in strict conformance to the manufacturer's instructions and recommendations for uniform and complete distribution. Each certificate of delivery supplied by the shotcrete supplier shall indicate the additive trade name, manufacturer's name and amount per cubic yard added to each batch of shotcrete.
- h. Class F Fly Ash, in accordance with ASTM C618, may make up no more than 20% of the cementitious material in the shotcrete mix.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Circumferential Prestressing Equipment:

1. The circumferential stressing system shall produce a continuously, electronically (or substantial equivalent) monitored permanent stress or force recording along the full length of the strand as it is being applied and the stress variation in any strand at any point around the circumference shall not be greater than ± 1.5 percent of the ultimate strength of the steel. In addition to this recording, any system which deflects the tensioned prestressing material between the tensioning device and the wall after it has left the tensioning device, shall provide a similar continuously monitored stress or force record along its full length as it is being applied to the wall. These recordings shall show that either before or after deflection, the stress variation in the prestressing material at any point around the circumference shall not be greater than ± 1.5 percent of the ultimate strength of the steel.
2. Due to prior instances of force measurement inaccuracies and the inherent problems associated with handheld stressometers, no manual recorded force readings will be accepted. This requirement shall be strictly adhered to.
3. Any wrapping that does not and/or cannot meet the stress tolerances specified, will not be accepted and will be removed at Specialty Tank Prestressor's expense. Specialty Tank Prestressor shall be responsible for all costs associated with meeting the specified tolerances.
4. Since wrapping systems which utilize single solid prestressing wire will not provide the desired bond between the prestressing wire and the shotcrete and since single solid prestressing wire will not provide an adequate safety factor against failure, only machine wrapping systems which utilize seven-wire prestressing strand wrapping will be allowed.
5. Since intermittent force applications can result in an unequal stress distribution around the wall (due to friction losses), the prestressing system shall be capable of applying a continuous wrapped force at any point around the circumference within the specified tolerances. Circumferential stressing systems based on jack operated cable or rod type tendons (such as those placed inside of ducts incorporated in the core wall or placed manually around the exterior of the core wall) will not be allowed.
6. Tank Prestressor shall submit procedures for patching through floor entry tubes and the center pin bolts for the prestressing and shotcrete operations. These procedures shall be submitted with the shop drawings for the respective items.

B. Circumferential Prestressing Application:

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1. Wrapped strand shall be anchored to the wall at least once for every coil or reel.
2. Permanently anchoring one strand to a previously wrapped strand will not be permitted.
3. Wrapped strand ends shall be joined by suitable splicing methods that shall develop 90% of the full strength of the strand.
4. Use of different alloys in the splicing material will not be permitted.
5. The minimum clear spacing between any two wrapped strands in the vertical direction shall be 1.5 strand diameters or 3/8 inch, whichever is larger.
6. The maximum center to center spacing between any two wrapped strands in the vertical direction shall be 6 inches, except at zones designated to be free of prestressing.
7. The wrapped strands shall be spaced at approximately equal spacing over given bands within the wrapping schedule shown in the Contract Drawings.
8. All wrapped strands not meeting the spacing requirements shall be spread by approved methods or shall otherwise be removed.

C. Vertical Prestressing Equipment:

1. The Specialty Tank Prestressor shall provide a continuously, electronically (or substantial equivalent), monitored permanent force-elongation record from zero to full force at the final lockoff for all of the vertical prestressing work.
2. The ordinate of the permanent recording shall show the elongation in inches and the abscissa shall show the force in pounds or kips.
3. Manually recorded force and elongation readings will not be accepted.
4. The vertical threadbar stressing machinery shall have automatic electronic tensioning cut off devices or equivalent means to ensure that the specified force and elongation is not exceeded at any time during any threadbar stressing operation.
5. The force readings at the stressed bar ends, immediately after lock off, for any stressing operation, on any tendon, shall not fluctuate more than $\pm 1.5\%$ (of the minimum ultimate strength of the steel) from the desired average force setting.
6. The maximum applied force, immediately after lock off for the final stressing operation on any threadbar, shall be no greater than 75% of the minimum ultimate strength of the steel.

D. Vertical Prestressing Application:

1. All permanent anchor hardware shall have a ball shaped threaded nut that can be screwed down on to a matching cone-shaped bearing surface in the bearing plate after the desired tension on the anchor hardware and/or prestressing steel has been applied.
2. The number and spacing of threadbars, if shown on the Drawings, shall not be altered under any condition.
3. High strength threadbars shall be used for vertical prestressing which meet the requirements of these Specifications.
4. All ducts shall be clean and free of water and deleterious materials that would impair bonding of the grout or interfere with grouting procedures.
5. Grout injection pipes shall be fitted with positive mechanical shutoff valves, which shall not be removed within the first 24 hours.
6. Grouting of threadbars shall be started at the lowest grout connection.
7. Each vertical threadbar duct shall be pumped until the entire nut at the top anchor has been covered. Pea gravel and/or clean sand may be placed (at Specialty Prestressor's option) in the threadbar can as a filler prior to or after epoxy pumping.

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8. In cold weather, and especially during frosts, special precautions must be taken to avoid the freezing of grout. In the event that the grouting procedure cannot be postponed, the wall temperature must be kept above the freezing point with hot blankets or by other approved means.
9. Upon completion of the vertical stressing and grouting operation, all anchor pocket areas above the anchor nuts shall be dry packed with a 1 cement to 2 sand mortar mix immediately after the epoxy coating on the inside can surface has become tacky, or alternately, the metal can may filled with concrete aggregates and epoxy.
10. The inside surfaces of any metal cans to be dry packed shall be coated with a 2 part epoxy bonding agent.
11. Dry packing shall not proceed until the epoxy coat has become tacky.
12. The dry pack surface shall be finished flush with the adjoining concrete surface.
13. Vertical threadbar components shall be assembled off the ground and as detailed on the Drawings.
14. Particular attention shall be given to sufficient taping of damaged joint connections and holes in PVC tubing.
15. Vertical prestressing threadbars shall be accurately placed at the locations shown on the Drawings, or as approved by ENGINEER, and shall be securely fastened in place to reinforcing steel and form ties to prevent movement during placement of concrete.
16. All vertical threadbars shall be fully assembled before they are installed in the forms.
17. All vertical threadbars shall be flushed with water from the top immediately upon completion of the concrete vibrating operation.
18. Flushing of ducts shall proceed after the pouring and vibrating of concrete around the threadbars has been completed.
19. Water shall be introduced through a taped off hole in the wooden lids on the anchor pockets and be permitted to drain through the bottom grout tube. Flushing shall not be accomplished by introducing water through the bottom connection.
20. Upon completion of the water flushing operation of vertical threadbars, the ducts shall be given a short burst of compressed air from the top only to remove any accumulations of water at the bottom of the ducts.
21. Cleaning of threadbars with air only, or removal of water with air from the bottom connection, will not be permitted.
22. Placing of vertical threadbars shall be done to proper locations, elevations and alignments, with a maximum tolerance of plus or minus 1/4 inch.
23. All vertical threadbars shall be properly tied at the anchor plates and shall be tied with #4 bars at 2 feet intervals between the anchor plates, unless shown otherwise on the Drawings.
24. Anchor plates must be installed at right angles to the threadbar alignment near the anchor. Anchor plates must be installed with long sides, if applicable, aligned parallel with the wall forms and secured to prevent rotation while concrete is placed. The maximum permissible misalignment of anchor plate to threadbar alignment is plus or minus 2.5 degrees.
25. Unless indicated otherwise on the Drawings, the minimum concrete cover around metal anchor pockets and bearing plates shall be 1.5 inches.
26. The clearance between bottom anchor plate and waterstop in tank walls shall be no less than 2 inches nor more than 4 inches.

E. Circumferential and Vertical Prestressing Operations:

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1. The maximum initial electronically (or substantial equivalent) recorded steel stress shall not exceed 75 percent of the guaranteed minimum ultimate strength (M.U.S.) of the steel at any time during and after stressing.
2. Each vertical threadbar in the wall shall be stressed to the values shown on the Drawings.
3. An automatic, continuously electronically (or substantial equivalent) monitored permanent recording of the applied force, at any point on the strand, at any point on and around the tank wall, must be made during the entire circumferential prestressing application. All such recordings must be based on a continuous sensing of the applied force on the prestressing material between the tensioning drum and the wall when, and as, the strand is being wrapped and laid on the wall.
4. The force setting on wrapping and threadbar stressing machinery shall be such that the applied forces fall within the specified minimum or maximum stress or force limitations; the force setting shall be corrected immediately when the applied force falls outside the required force tolerance limitations.
5. In the event that the stressing machinery is incapable of holding the applied forces within the specified stress or force limitations, ENGINEER will order, at Specialty Tank Prestressor's expense, the removal and replacement of such machinery in favor of a different stressing process capable of maintaining such tolerance requirements.
6. The loss in stress in post tensioned prestressing steel due to creep and shrinkage of concrete creep of steel and sequence stressing shall be assumed as 25,000 psi.
7. The final stress is the average initial stress reduced by the stress loss of 25,000 psi.
8. The final force is the steel section multiplied by the final stress.
9. The final force shall be no less than the required working force shown on the Drawings.
10. The continuous, electronically produced force application chart during the wrapping application becomes the property of OWNER.
11. Manual, individual or intermittent force readings taken on wrapped strand in full bodily contact with the wall will not be accepted. Force readings based on anything other than instantaneous force readings, as the strand is being tensioned, and wrapped around the tank, will not be accepted.
12. An automatic, continuously electronically (or substantial equivalent) monitored and simultaneously recorded force elongation reading must be made for each vertical stressing application.
13. The force elongation reading must represent the true relationship between the elongation at any given point of the vertical stressing operation and the applied force on the prestressing steel at that same point.
14. The force elongation relationship must be constantly maintained from the beginning, starting with the removal of the slack to the point of lock off and complete release of the force on the vertical prestressing steel after retraction of the stressing piston or equivalent stressing device.
15. All electronically produced force elongation readings during the vertical threadbar stressing operations become the property of the Owner.
16. The ultimate initial prestressing force for vertical threadbars shall not be applied until the concrete compressive strength in the wall shall have reached the specified 28 day strength.
17. Wrapping may start when the concrete has reached a minimum strength of 3,000 psi; however, under no circumstance shall the compressive stress, under any condition, exceed 55%.

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18. In the event that gaps between the core wall and the wrapped prestressing material develop that exceed 3/8 inch, wrapping shall be discontinued and the wall shall be built up with shotcrete to provide the proper curvature. Alternately, if approved by ENGINEER, the gaps may be dry packed after wrapping is completed and before shotcreting is started.
19. Wrapping over intermediate shotcrete coats or built up shotcrete areas may commence 12 hours after the shotcrete has been applied or when the shotcrete has reached a minimum strength of 250 psi, whichever is later.
20. Because prestressing material exposed to excessive temperatures greatly increases the possibility of irrevocable damage, such as steel embrittlement, stress corrosion, or wire splitting, the temperature of the prestressed material during application shall not be allowed to increase by more than fifty degrees at any time during such application due to the stressing technique. No system which relies on pulling the prestressing material through a die to create a force, will be allowed.
21. All vertical prestressing threadbar ducting shall be pressure grouted with an approved 2 part water insensitive epoxy and approved epoxy grouting equipment. Circumferential prestressing anchors shall be dry packed with cement grout or epoxy, at the Contractor's option.
22. Grout injection pipes shall be fitted with positive mechanical shutoff valves, which shall not be removed within the first 24 hours.
23. Grouting of threadbars shall be started at the lowest grout connection.

F. Safety Precautions:

1. Every precaution shall be taken to keep personnel and visitors outside the danger area of breaking strands or bars.
2. At no time shall anyone stand in the line of stressed vertical threadbars or stressed strand.
3. No work shall be performed by anyone, other than the prestressing crew, within 100 feet from the wrapping operation or the application of the vertical threadbar stressing operation.
4. Where access to the site by unauthorized persons is outside the Contractor's control, while prestressing work is in progress, Contractor shall erect protective fencing to prevent breaking strand from endangering such persons.
5. There shall be no welding to anchor plates after the threadbars have been assembled, neither shall prestressing steel be used as a "ground" for welding operations.

G. Abrasive Blasting:

1. Exterior surfaces of the concrete core wall, which will receive strand wrapping shall be abrasive blasted, regardless of the forming method used, by a mechanical etching or shotblast system combined with a vacuum recovery system, or a water-blasting system. Systems that have not been used successfully in the past to prepare circular tank wall surfaces for shotcreting and strand wrapping or systems which rely on sandblasting or steel shot without a vacuum system will not be allowed. The surface shall be abrasive blasted sufficiently to remove all laitance, form oil or other type of coatings. The surface shall be cut to a minimum CSP5 profile, as established by the International Concrete Repair Institute (ICRI), over a minimum of 90% of the surface being prepared as measured over any one foot square area. The Specialty Tank Prestressor who is performing the abrasive blasting shall make available to the inspector ICRI sample coupons to assist in evaluating the abrasive cut.

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H. Shotcrete Equipment:

1. Mixing shall be done in conformance with the requirements of Section 03300, Cast in Place Concrete.
2. Delivery Equipment:
 - a. The delivery equipment shall be of an approved design and size which has given satisfactory results in similar previous work.
 - b. The equipment shall be capable of discharging mixed materials into the hose under close control and shall be able to deliver a continuous smooth stream of uniformly mixed material at the proper velocity to the discharge nozzle, free from slugs of any kind.
 - c. The equipment must allow for the concrete, water and air to be distributed to the automated shotcrete tower through a swivel pin located at the center of the tank.
 - d. The nozzle shall be of a design and size that will ensure a smooth and uninterrupted flow of materials.
 - e. Delivery equipment shall be thoroughly cleaned at the end of each shift.
 - f. Equipment parts shall be regularly inspected and replaced as required.
3. Air Supply capacity of the compressor shall be large enough that the minimum amount of air to be available at the nozzle shall be no less than 400 CFM, irrespective of whether or not air from the same air supply is used for other purposes.

I. Shotcrete Application Process:

1. Shotcrete shall be applied under the wet mix process only.
2. Nozzles shall be mounted on power driven machinery enabling the nozzle to travel parallel to the surface to be sprayed at a uniform linear or bidirectional speed.
3. The nozzle shall be kept at a uniform constant distance from the surface, always insuring a right angle spray of the material to the surface.
4. Hand operated nozzles and shotcreting operations dependent on the performance of the nozzleman will not be accepted except where additional shotcrete is needed to correct flat areas or for architectural surface treatments.
5. Grout materials shall be delivered to the jobsite in ready mix trucks from approved batching plants. However, job mixing will be accepted provided automatic weigh batch plants are used.
6. The sand, cement and water shall be premixed before being pumped through a 2" minimum hose by specially designed mortar pumps.
7. The high velocity impact shall be developed pneumatically by injecting compressed air at the nozzle.

J. Shotcrete Placing and Finishing:

1. Shotcrete shall be applied in a steady, uninterrupted flow.
2. Should the flow become intermittent for any cause, the machine operator shall direct the nozzle away from the work until it again becomes constant, or shut off the flow of materials.
3. Position of Pneumatic Nozzles: The nozzle shall be held at approximately right angles to the surface and shall be kept at the proper and the same distance from the surface dictated by good practice standards for the type of application, type of nozzle and air pressure employed.
4. Shotcreting More Than One Layer:
 - a. Sufficient time shall be allowed for each layer of shotcrete to set up so it may take the next layer without sagging.

- b. The shotcrete shall be started at the bottom of the wall until all wrapped strand has been covered. Subsequent shotcrete layers may be applied from the top down or from the bottom up at the discretion of the Shotcreter.
 - c. While the nozzle travels around the wall, the nozzle shall be raised or lowered at a uniform rate in such a manner that an adequate overlapping of coatings and a uniform finish will develop.
 - d. The nozzle shall be spiraled up or down around the tank to either the top or the bottom of the wall or to the termination of the intermediate strand layer.
- 5. Application of Shotcrete:
 - a. To ensure proper penetration around the strand and proper conveyance of the material through the hose, a 5" to 7" slump of the mortar at the pump is recommended.
 - b. The application of the shotcrete in the number and thickness of layers specified herein is mandatory for proper penetration of shotcrete behind prestressing material and to reduce shrinkage due to more uniform in depth drying of the shotcrete. The moisture absorption by earlier applied layers is relied upon to improve the bond and strength of the material and to reduce drying shrinkage of the applied shotcrete.
- 6. Shotcrete Covercoats Over Wrapped Strand:
 - a. Each layer of wrapped prestressing steel shall be covered with shotcrete until a minimum cover of 3/8" over the steel has been obtained.
 - b. The final covercoat, to make up for the full thickness of shotcrete over the final strand layer, shall be applied in at least 3 layers of equal thickness.
 - c. Each layer of shotcrete shall be completed for the full circumference of the tank and substantially the full height of that layer before the next layer of shotcrete may be applied.
- 7. Coating Thickness:
 - a. All shotcrete coatings shall be built up in layers of approximately 3/8 inch in thickness until the final required thickness has been obtained.
 - b. Unless otherwise shown on the Drawings, the minimum shotcrete cover over all wrapped steel shall be 1.5 inches.
- 8. Finish Coat:
 - a. After the minimum shotcrete cover specified over the wrapped prestressing strand has been completed by the automated shotcrete procedure, and only if such finish requirements are shown on the Drawings, the exterior surface shall be given an acceptable float finish true to line and curvature and to details shown on the Drawings.
 - b. If a float finish is required on the Drawings, plaster or hand applied shotcrete may be used to build up and level the surface and to obtain the desired surface finish and projections.
 - c. The finish coat mix (if a smooth float finish is required on the Drawings), shall consist of a minimum of one sack of cement for each 3 1/2 cubic feet of moist plaster sand.
 - d. If no finish requirements are shown on the Drawings, it is intended to have a natural original gun finish of the shotcrete covercoat.
- 9. Protection of Adjacent Buildings and Surface:
 - a. Shotcreter shall take every possible precaution to protect adjacent buildings, concrete surfaces, vehicles, equipment, etc., from being damaged by overshooting shotcrete and by materials carried away by the wind.
 - b. Overshot shotcrete and rebound materials deposited on the roof shall be removed before it adheres to the concrete surface.

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- c. CONTRACTOR shall pay for all damages caused by Shotcreter's operations under this contract.
- 10. Shotcrete tests shall be conducted in accordance with Section 03300, Cast in Place Concrete.
- K. Shotcrete Thickness Confirmation Testing
 - 1. Shotcrete thickness shall be confirmed at up to 8 different locations per prestressing layer. These locations shall be selected by OWNER or ENGINEER. The contractor shall remove the shotcrete down to the prestressing strand at the selected locations. Thickness shall be verified by placing a straight edge against the applied shotcrete and measuring the distance between the outside face of the prestressing strand and the face of the straight edge.
- L. Hand Placed Shotcrete for Repairs Only:
 - 1. To ensure a high quality shotcrete, the Shotcreter shall satisfy ENGINEER that the nozzleman has had sufficient and acceptable experience in the application of structural shotcrete.
 - 2. Experience gained on shotcrete pool and ditch construction will not be considered as experience for qualifying the nozzleman, unless approved by ENGINEER.
 - 3. The nozzleman shall be capable of applying thin coats of even and uniform thickness.
 - 4. The nozzleman shall be a certified shotcrete nozzleman in accordance with ACI 506.
- M. Restriction on Shotcrete Operation:
 - 1. Shotcrete shall not be applied under such strong wind conditions that a considerable amount of cement and moisture will be removed by the wind from the mortar spray between the nozzle and the surface on which the shotcrete is applied.
 - 2. Shotcrete may be applied in cold weather provided the surfaces are not frozen.
 - 3. The temperature during the day must be expected to rise to at least 40°F and the night temperature of the first night after the shotcrete application must not be expected to drop below 27°F.
 - 4. The use of Type III Portland cement is required (when readily available) in the event shotcrete is applied at temperatures below 40°F.
 - 5. The Shotcreter may apply shotcrete under the conditions specified herein solely at his own risk.
 - 6. Whenever rain or frost has damaged shotcrete which has not had a chance to set up, such shotcrete shall be removed and replaced.
 - 7. Shotcreter shall consult with ENGINEER to determine whether or not the shotcrete damaged by rain or frost will be accepted before applying any new layers of shotcrete.
- N. Shotcrete Water-Curing:
 - 1. Intermediate layers of shotcrete shall be kept damp by hand curing or other means no sooner than 12 hours after the shotcrete has been applied.
 - 2. This water-curing is not required should additional shotcrete be applied on the entire wall surface within the following 12 hours.
 - 3. An indiscriminate use of continuous water-cure for intermediate layers shall be avoided.
 - 4. Complete shotcrete surfaces, which do not receive any additional coatings, shall be water-cured for a period of at least seven (7) days by encapsulating the

shotcrete inside of plastic sheeting. Such plastic sheeting shall be lapped and sealed as necessary to properly cure the shotcrete. Membrane curing methods utilizing curing compounds or wax-based residuals will not be permitted.

5. Wall coatings, as specified in Section 09900, shall be applied no later than five (5) days after completion of the water-curing. If conditions make it impossible to apply coatings within the five (5) day period, shotcrete shall be water-cured for a period of ten (10) days instead of the seven (7) days specified herein.

O. Cleaning and Waterproofing:

1. After construction is completed, the interior of the tank shall be completely hosed out and cleaned of all dirt and loose material.
2. Floor, wall, footing, column and roof cracks, which may have developed from drying shrinkage, shall not be taped or chipped out and caulked. All cracks shall be pumped and sealed with a two-part water insensitive epoxy.

P. Disinfecting and Filling:

1. Water containing 200 ppm of chlorine shall be sprayed on all walls, columns and underside of roof areas.
2. The solution from the wash down shall be allowed to stand for no more than 24 hours prior to filling the tank.
3. The chlorine shall be monitored and adjusted while filling, so that when the reservoir is full the resulting chlorine solution is approximately 2 ppm.
4. The disinfection shall be accepted if samples taken for the final bacteriological test conform to AWWA Standard C652 and are found to be satisfactory.
5. The tank should only be filled during normal working hours, at the end of each day the reservoir and ring drain should be checked for any kind of visible leakage. If only damp spots and small puddles of water are noted, the filling can continue. If major leaks are noted, they should be thoroughly investigated prior to continuing to fill the tank.

Q. Testing and Repairing Leaks:

1. Testing:
 - a. After filling the tank, the water level shall be held at the overflow for 3-days, it will be assumed for the purpose of the test that the absorption of moisture by the concrete in the tank is complete. All valves and gates to the structure shall then be closed and the change in water surface measured over a 48-hour period. The vertical distance to the water surface shall be measured to within 1/16-inch from a fixed point on the structure above the water surface. Measurements shall be recorded at 24-hour intervals.
 - b. During the test period, all exposed portions of the structure shall be examined for dampness or leaks and all visible leaks or damp spots shall be marked; such leaks or damp spots shall be later patched or corrected in a manner acceptable to the ENGINEER prior to additional leakage testing.
 - c. The tank and the drain lines from the ring drain shall then be examined for evidence of leaks.
 - d. All leaks shall be repaired to the satisfaction of ENGINEER.
 - e. Any areas that, in the opinion of ENGINEER, are exposed to contamination during the repair work shall be re-chlorinated to ENGINEER's satisfaction.
 - f. Testing shall be completed before the tank is backfilled.
2. Leak Detection Methods:
 - a. Leaks in floor construction joints may be detected with the aid of a diver.

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- b. Mud, cement deposits or dye on the floor, when stirred up, would flow to the leak and may so indicate where the leaks are.
 - c. Honeycomb and cracks around waterstops may be detected through tapping with a hammer along the joint.
 - d. Any of these procedures may be insisted upon by ENGINEER when cement seeding has not stopped the leaks.
 - e. Leakage through joints, which may have resulted from bent over waterstops or honeycomb under or around waterstops may require the removal of concrete around the waterstops in suspected areas.
 - f. Chipped out concrete areas shall be properly dry packed with non-shrink grout, after coating the existing concrete surface with an approved epoxy bonding agent.
3. Acceptance:
- a. The acceptable drop in water level of covered water tanks shall not exceed 1/16-inch per 24 hours after the tank has been filled, and after accounting for evaporation. There shall be no visible running leaks or water puddles. Small damp spots may be accepted, at the discretion of ENGINEER, during the first few months of operation; however, if they have not healed, ENGINEER may order the immediate repair of such areas. Damp spots or any seepage present on the walls or other exposed areas where moisture can be picked up on a dry hand shall be considered excessive and repaired. Any cracks, voids, honeycomb or cold joints showing or causing running leaks of water, shall be epoxy injected by qualified operators until such cracks and voids have been completely sealed.
 - b. Wet areas on top of wall footings shall not be considered cause of a qualitative failure of the leakage test unless the water can be observed to be puddled or flowing.
 - c. If the leakage is excessive, and if damp spots and observed seepage is present on exposed surfaces, the tank shall be drained, all leaks and damp spots previously marked shall be patched, and the necessary repairs made, and the tank shall be retested. The CONTRACTOR'S method of repair shall be subject to the requirements of these specifications and submitted for review and approval by the ENGINEER.
 - 1) The tank shall then be refilled and again tested for leakage and this testing and repair process shall be repeated as many times as necessary until the leakage test passes. This process shall be continued until the drop in water surface in specified test period with the tank full is less than the quantity specified above and all damp spots and seepage disappears when the tank is full of water. All repairs of faulty workmanship and materials, and additional tests, shall be made by the CONTRACTOR in an acceptable manner, at no additional cost to the OWNER. Both the correction for excessive leakage and the removal of the damp or wet spots on exposed surfaces shall be required to pass the leakage test.
 - d. The purpose of this test is to determine the integrity of the finished concrete and to show that the exposed wall surfaces are visually acceptable.
 - e. The tank shall not be backfilled until and unless ENGINEER has accepted the leakage tests.
 - f. This section shall be applicable during the entire specified warranty period of the tank.

+ + END OF SECTION + +

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SECTION 03400

PRECAST CONCRETE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Section includes all plant-precast products, including, but not limited to, wet wells, catch basins, manholes, vaults, and wheel stops.

1.2 SYSTEM DESCRIPTION

- A. Precast products shall be designed for the indicated service, the loadings specified in the Contract Documents, and all transportation, handling, and erection loads, in accordance with requirements and recommendations of the references.
 - 1. Precast products not subjected to traffic loads shall be designed to meet and exceed the requirements of ACI 318-14.
 - 2. Precast products subjected to traffic loads shall be designed to meet and exceed the requirements of the current AASHTO LRFD Bridge Design Specifications.
 - 3. Liquid containing precast products shall be designed for the additional requirements of ACI 350-06.
- B. If precast products are proposed as substitutes for cast-in-place designed structures, such precast products shall meet the above requirements and any other requirements for which the cast-in-place structures were designed by the ENGINEER. Such products shall be designed by an engineer licensed to practice in the State where the project is performed.
- C. Items located in or adjacent to traffic areas shall be designed to resist AASHTO HL93 loading, unless otherwise indicated.
- D. Lifting inserts shall have a minimum safety factor of 4.

1.3 QUALIFICATIONS

- A. Manufacturer:
 - 1. Manufacturer shall have at least 5 years experience in the design and manufacture of precast concrete products substantially similar to those required for this project.
- B. Installer:
 - 1. Precast Items shall be installed by the Manufacturer or by an installer regularly engaged for at least 5 years in erection of precast products similar to those required on this project.

1.4 SUBMITTALS

- A. Submittal Data:
 - 1. Submit to the Engineer for review, shop drawings of the proposed details, and design calculations; all calculations and shop drawings shall be stamped and signed by a Civil or Structural Engineer registered in the State of California.
 - 2. Material specifications.

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3. All dead, live and other applicable loads used in the design.
 4. Applicable standards (from "References") met by the item(s).
 5. Setting plans locating and designating all items furnished by the manufacturer, with all major openings shown and located.
 6. Details to indicate quantities, location and type of reinforcing and prestressing steel.
 7. Sections and details showing connections, edge conditions, support conditions, and connections of the items.
 8. Description of all embeds, including stripping, lifting and erection inserts, with piece mark and location, including those cast into products or sent loose to the job site.
 9. Description and drawings of all frames and covers.
 10. Dimensions and special finishes.
- B. Mix Designs: Submit all precast mix designs for approval. Mix designs shall be prepared by an independent testing facility or qualified employee of the Precast Manufacturer.
- C. Design Modifications:
1. Submit design modifications necessary to meet performance requirements and field conditions.
 2. Variations in details or materials shall not adversely affect the appearance, durability or strength of products.
 3. Maintain general design concept without altering size of members, profiles and alignment unless otherwise approved by the Architect/Engineer.

1.5 QUALITY ASSURANCE

- A. In-Plant Quality Control
1. The Manufacturer shall have an established PCI quality control program in effect prior to bidding. If requested, a copy of this program shall be submitted to the ENGINEER.
 2. Testing of materials and inspection of production techniques shall be the responsibility of the Manufacturer's Quality Control Department.
 3. Keep quality control records available for two years after final acceptance.
 4. Keep certificates of compliance available for five (5) years after final acceptance.
- B. All other testing and inspection, if any, to be provided by OWNER.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Handle and transport products in a position consistent with their shape and design in order to avoid excessive stresses or damage.
- B. Lift or support products only at the points shown on the Shop Drawings.
- C. Installer shall be responsible for the repair of damage to items except that caused by others.
- D. After items are installed in their final positions, the CONTRACTOR shall be responsible for their protection. The CONTRACTOR shall be responsible for the repair of any damage to the items caused by someone other than the Manufacturer/Installer.

PART 2 - PRODUCTS

2.1 CONCRETE MATERIALS

- A. Portland Cement ASTM C150 Type I, II or III cement.
- B. Aggregates:
 - 1. Fine and coarse aggregate for mix shall conform to ASTM C33 or C330.
 - 2. Aggregates shall be clean, hard, strong, durable, inert, and free of staining and deleterious materials.
- C. Water Potable, free from deleterious material.
- D. Admixtures:
 - 1. Conforming to ASTM C260 and/or ASTM C494.
 - 2. Calcium chloride or admixtures containing chlorides shall not be used.
- E. Concrete Strength: Concrete strength shall be determined by design with a minimum 28 day design strength of 4,000 psi.

2.2 STEEL MATERIALS

- A. Products:
 - 1. Structural Shapes, Bars & Plates (1.6mm and thicker): ASTM A36
 - 2. Pipe: ASTM A53 Grades A or B
 - 3. Tube Steel: ASTM A500 Grades A or B
 - 4. Reinforcing Steel: ASTM A615 Grades 300 & 420 or ASTM A706
 - 5. Prestressing Strand: ASTM A416 Grade 270, low relaxation
 - 6. Deformed Steel Bar Mats: ASTM A184
 - 7. Deformed Bar Anchors: ASTM A496
 - 8. Deformed Welded Wire Fabric: ASTM A497
 - 9. Plain Welded Wire Fabric: ASTM A185
 - 10. Welded Headed Studs: AWS D1.1 Type B
 - 11. Standard Machine Bolts: ASTM A307 Grade A or SAE J429 Grade 2
 - 12. Standard Studs/Threaded Round Stock: ASTM A307 Grade C, ASTM A572 Grade 345
 - 13. Nuts for Standard Machine Bolts and Threaded Studs: ASTM A563 Grade A Hex Nuts
 - 14. High Strength Bolts: ASTM A325 Type 1, ASTM A449 Type 1, or SAE J429 Grade 5
 - 15. Nuts for High-Strength Bolts and Threaded Studs: ASTM A563 Grade DH Heavy Hex Nuts
 - 16. Coil Rods and Bolts: ASTM A108 - SAE 1016 to 1026, $F_u/F_y = 480/380$ MPa minimum
 - 17. Coil Nuts for Coil Rods and Bolts: Nuts passing a proof load stress of 80 ksi, based on the tensile stress area of the matching coil rods and bolts.
 - 18. Carbon Steel Castings: ASTM A27 Grade 415-205
- B. Protective Coatings:
 - 1. All connection hardware permanently exposed to weather after completion shall be protected. All connection hardware not exposed to weather after completion may be uncoated, except as otherwise explicitly required by the contract drawings. Fasteners can have either an electroplated zinc or cadmium coating.
 - 2. Alkyd Rust Inhibitive Primers (shop primers such as red iron oxide) :
 - a. Tnemec Series FD88 Azaron Primer
 - b. Ameron 5105
 - c. Weld-Thru Primer, Red, 2-0101 & Gray, 2-0102

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3. Zinc Coatings:
 - a. Hot-Dip Galvanizing: ASTM A123, or ASTM A153
 - b. Electroplated Zinc for Steel Products and Steel Hardware: ASTM B633
 - c. Zinc Rich Paints: DOD-P-21035
4. Cadmium Coatings:
 - a. Electrodeposited Coatings of Cadmium: ASTM B766

2.3 MISCELLANEOUS PRODUCTS

- A. Grout:
 1. Cement Grout: Portland cement, sand and water sufficient for placement and hydration.
 2. Non-Shrink Grout: Premixed, packaged non-ferrous aggregate shrink resistant.
 3. Epoxy Resin Grout: Two-component mineral-filled resin: ASTM C881.
- B. Joint Sealing Compound: The joint sealing compound shall be a permanently flexible plastic material complying in every detail to Federal Specification SS S-00210 (GSA-FSS) dated July 26, 1965. "Quickseal", or approved equal.
- C. Frames and Covers: Catch basins, manholes, and vaults shall be provided with fabricated aluminum or steel frames and covers as specified or shown on the drawings and shall be built up so that the cover is flush with the surrounding surface unless otherwise specified.

2.4 FABRICATION

- A. Unless otherwise noted, precast concrete structure dimensions called out on the Drawings are interior dimensions.
- B. Manufacturing procedures shall be in general compliance with PCI MNL-116.
- C. Manufacturer shall provide for those openings 10 in. or larger, round or square as shown on the drawings. Other openings shall be located and field drilled or cut by the trade requiring them after the units have been erected. Openings and/or cutting of prestressing strand shall be approved by ENGINEER and manufacturer before drilling or cutting.
- D. Forms:
 1. Forms for precast products shall be rigid and constructed of materials that will result in finished products conforming to the profiles, dimensions and tolerances indicated by this Section, the Contract Documents and the reviewed Shop Drawings.
 2. Construct forms to withstand vibration method selected.
 3. Release agents shall be applied and used according to manufacturer's instructions.
- E. Concreting:
 1. Batching of Concrete shall be in accordance with approved Mix Design(s).
 2. Convey concrete by methods which will prevent separation, segregation or loss of material.
 3. Consolidate all concrete in the form to minimize honeycombing or entrapped air.
- F. Curing: Procedures sufficient to insure specified concrete strength of all products must be employed. Stripping of a panel shall not occur until concrete strength is sufficient to prevent cracking or damage of the panel.

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- G. Manufacturing Tolerances:
1. Cross Sectional Dimensions:
 - a. Less than 24 inches: $\pm 1/4"$
 - b. 24 to 36 inches: $\pm 3/8"$
 - c. Over 36 inches: $\pm 1/2"$
 2. Length:
 - a. Less than 25 ft: $\pm 1/2"$
 - b. 25 to 50 ft: $\pm 3/4"$
 - c. Over 50 ft: $\pm 1"$
 3. Variation from square or designed skew (difference in length of two diagonal measurements): Max. $\pm 3/4"$
- H. Identification: Mark each precast item to correspond to identification mark on Shop Drawings for product location, and with casting date.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Access: Clear unloading areas and access roadways to point of component placement shall be provided and maintained by the CONTRACTOR. The CONTRACTOR shall provide all required traffic controls, barricades, warning lights and/or signs to insure a safe installation.
- B. Sitework: The CONTRACTOR shall excavate and prepare the subgrade, including 2 inches of clean sand, graded level and to the proper elevation.
- C. Installer Responsibility: Prior to installation of the precast products, notify the CONTRACTOR of any discrepancies discovered which affect the work under this contract.

3.2 INSTALLATION

- A. General: Precast products shall be lifted with suitable lifting devices at points provided by the Manufacturer to prevent excessive stresses or damage to the products. Brace and secure items before unhooking.
- B. Sitework:
1. Openings or "knockouts" shall be located as shown on the drawings and shall be sized sufficiently to permit passage of the largest dimension of pipe and/or coupling flange. Upon completion of installation, all voids or openings in the vault walls around pipes shall be filled with 4,000-psi concrete or mortar, using an approved epoxy for bonding concrete surfaces.
 2. All joints between precast sections shall be made watertight using preformed mastic material. The sealing compound shall be installed according to the manufacturer's recommendations to provide a watertight joint which remains impermeable throughout the design life of the structure. All joints shall be filled with dry-pack non-shrink grout. If plastic liner system is used, after the joint has been made and is cured, install plastic liner weld strip at all joints and seams.
 3. Frames and covers shall be built up so that the cover is flush with the surrounding surface unless otherwise specified. The CONTRACTOR is responsible for placing the cover at the proper elevation where paving is to be installed and shall make all necessary adjustments so that the cover meets these requirements.

4. After the structure and all appurtenances are in place and approved, and after any required disinfection or testing, backfill shall be placed to the original ground line or to the limits designated on the plans.

3.3 FIELD QUALITY CONTROL

- A. Hydrostatic Testing:
 1. All Manholes, Wetwells, Junction Boxes, or other water bearing structures shall be hydrostatically tested prior to acceptance.
 2. Test Procedure:
 - a. Plug all inlets and outlets with temporary plugs
 - b. Fill water bearing structure with clean, potable water
 - c. Let stand for 24 hours, if desired, to allow for "soaking-in"
 - d. Fill to rim elevation
 - e. Let stand for a minimum of 2 hours
 - f. Check distance from rim to water surface
 - g. Calculate water loss. Leakage in each manhole may not exceed 0.1-gallon per hour per foot of water depth during the test.
 3. Repair all structures which do not meet the above test requirements with a method approved by the ENGINEER and re-test until passing.

3.4 PATCHES AND REPAIRS:

- A. Patching of products, when required, shall be performed to industry standards for structural concrete. Repairs shall be sound, permanent and flush with adjacent surface.

3.5 WARRANTY:

- A. All labor and materials under the Precast Manufacturers contract shall be warranted by the Precast Manufacturer for a period of one (1) year after substantial completion.

+ + END OF SECTION + +

SECTION 03600

GROUT

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes epoxy, non-metallic, non-shrink, and ordinary Portland cement-sand grouts.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM C33, Standard Specification for Concrete Aggregates.
 - 2. ASTM C150, Standard Specification for Portland Cement.
 - 3. ASTM C595, Standard Specification for Blended Hydraulic Cements.
 - 4. ASTM C1107, Standard Specification for Packaged Dry, Hydraulic-Cement Grout.

1.3 SYSTEM DESCRIPTION

- A. Furnish ordinary cement-sand grout for the following:
 - 1. Foundation grout.
 - 2. Construction joint grout.
 - 3. As shown in the Drawings.
- B. Furnish non-shrink, non-metallic grout for the following:
 - 1. Equipment bases, 25 hp or less.
 - 2. Base plates.
 - 3. Guardrail and railings.
 - 4. Through-bolt and form tie openings.
 - 5. As shown in the Drawings.
- C. Furnish epoxy grout for the following:
 - 1. Equipment bases, 26 hp or more and/or sole plates with vibration, thermal movement, etc.
 - 2. Blockouts for gate guides.
 - 3. Retrofit waterstop installation.
 - 4. As shown in the Drawings.

1.4 SUBMITTALS

- A. Product Data:
 - 1. Manufacturer's specifications and installation instructions for all proprietary materials.
 - 2. Proposed method for keeping existing concrete surfaces wet prior to placing grout.
 - 3. Forming method for fluid grout placements.
 - 4. Curing method for grout.
- B. Laboratory Test Reports and Certificates:
 - 1. For proprietary materials, submit copies of reports on quality control tests.
 - 2. Submit certification that materials meet specification requirements for nonproprietary materials.

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3. For ordinary cement-sand grout, copies of grout mix design and laboratory strength test reports.

1.5 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Delivery of Materials: Deliver grout materials from manufacturers in unopened containers and bearing intact manufacturer's labels.
- B. Storage of Materials: Store grout materials in a dry shelter and protected from moisture.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. High-Strength Epoxy Grout.
 1. Use 100% solids, prepackaged, solvent-free, moisture insensitive, high-strength epoxy grout.
 2. Product and Manufacturer: Provide one of the following:
 - a. E³-HP, as manufactured by The Euclid Chemical Company.
 - b. Sikadur 42 Grout Pak, as manufactured by Sika Corporation.
 - c. Five Star HP Epoxy Grout by Five Star Products, Incorporated.
 - d. Or approved equal.
- B. Non-shrink, Non-metallic Grout:
 1. Prepackaged non-staining cementitious grout which shall meet the minimum requirements of ASTM C1107 and requiring only the addition of water at the jobsite.
 2. Product and Manufacturer: Provide one of the following:
 - a. NS, as manufactured by The Euclid Chemical Company.
 - b. Five Star Grout, as manufactured by Five Star Products, Incorporated.
 - c. Sika Grout 212, as manufactured by Sika Corporation.
 - d. Or approved equal.
- C. Ordinary Cement-Sand Grout: Prepare design mix for ordinary cement grout.
 1. Cement: Portland cement, ASTM C150, Type II; or blended hydraulic cement, ASTM C595, Type 1P.
 2. Aggregates: ASTM C33 and as herein specified.
 - a. Do not use aggregates containing soluble salts or other substances such as iron sulfides, pyrite, marcasite, ochre, or other materials that can cause stains on exposed concrete surfaces.
 - b. Fine Aggregate: Clean, sharp, natural sand, free from loam, clay, lumps or other deleterious substances.
 - 1) Dune sand, bank run sand and manufactured sand are not acceptable.
 - c. Coarse Aggregate: Coarse aggregate not permitted.
 3. Admixtures: Provide admixtures produced by established reputable manufacturers and use in compliance with the manufacturer's printed instruction. Do not use admixtures that have not been incorporated and tested in the accepted mixes, unless otherwise authorized in writing by ENGINEER. Refer to Section 03300 - Cast-In-Place Concrete, for additional admixture requirements.
 4. Proportioning and Design of Mixes: Mixes are subject to the following limitations:
 - a. Specified 28-day Compressive Strength: 4,000 psi.
 - b. Minimum amount of water necessary for the mixture to flow under its own weight.
 - c. Fine Aggregate meeting ASTM C33.

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- d. Air Content Percentage: $\pm 1.5\%$.
- e. Minimum Cement Content in Pounds per Cubic Yard: 658.
- f. Slump at point of placement: $5" \pm 1"$.
- 5. Proportion mix by either laboratory trial batch or field experience methods, using materials to be employed on the Project for grout required. Comply with ACI 211.1 and provide a complete report, from an independent testing laboratory, to ENGINEER, at least 30 days prior to start of Work. Do not begin grout production until ENGINEER has approved mix.
- 6. Laboratory Trial Batches: When laboratory trial batches are used to select grout proportions, prepare test specimens and conduct strength tests as specified in ACI 301, Chapter 3 - Proportioning.
- 7. Field Experience Method: When field experience methods are used to select grout proportions, establish proportions as specified in ACI 301, Chapter 4.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine the substrate and conditions under which grout is to be placed with installer and notify ENGINEER, in writing, of unsatisfactory conditions. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.2 INSTALLATION

- A. General:
 - 1. Mix, place and cure grout as shown and in accordance with manufacturer's instructions. If manufacturer's instructions conflict with the Specifications, do not proceed until ENGINEER provides clarification.
 - 2. Manufacturers of proprietary products shall make available upon 72 hours notification the services of a qualified, full time employee to aid in assuring proper use of the product under job conditions. The cost of this service, if any, shall be borne by CONTRACTOR.
 - 3. When placing grout conform to temperature and weather limitations in Section 03300 - Cast-In-Place Concrete.
- B. Through-bolt and form-tie holes: Fill space with dry pack dense grout hammered in with steel tool and hammer. Coordinate dry pack dense grout application with bonding agent in Section 03251 - Concrete Joints.
- C. Columns, Beams and Equipment Bases: Prepare concrete surface by sandblasting, chipping, or by mechanical means to remove any soft material prior to setting base plates and machinery. After shimming columns, beams and equipment indicated to be grouted on the plans to proper grade, securely tighten anchor bolts. Properly form around the base plates allowing sufficient room around the edges for placing the grout. Adequate depth between the bottom of the base plate and the top of concrete base must be provided to assure that the void is completely filled with grout.
- D. Guardrails and Railings: After posts and rails have been properly inserted into holes or sleeves, fill the annular space between posts and cast-in-place sleeves and/or below base plates with non-shrink grout. Bevel grout at juncture with post so that moisture flows away from posts.

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- E. Construction Joints: Ordinary cement-sand grout may be used in place of mortar over the contact surface of the old concrete at the interface of horizontal construction joints as outlined in Section 03251 - Concrete Joints, and Section 03300 - Cast-In-Place Concrete, of these Specifications.
- F. Curing: Cure all grout in accordance with manufacturer's written instructions. Wet cure ordinary cement-sand grout and non-shrink non-metallic grout for a minimum of three (3) days unless directed otherwise by the ENGINEER.

+ + END OF SECTION + +

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SECTION 03740

CRACK REPAIR BY EPOXY INJECTION

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

1. CONTRACTOR shall furnish all material, tools, equipment, appliances, transportation, labor and supervision required to repair cracks by the injection of an epoxy resin adhesive.

1.2 QUALITY ASSURANCE

A. Qualifications for Epoxy Injection Staff:

1. Manufacturer's Site Representative:
 - a. Capable of instructing successful methods for restoring concrete structures utilizing epoxy injection process.
 - b. Understands and is capable of explaining technical aspects of correct material selection and use.
 - c. Experienced in the operation, maintenance, and troubleshooting of application equipment.
2. Injection crew and job foreman shall provide written and verifiable evidence showing compliance with the following requirements:
 - a. Licensed and certified by epoxy manufacturer.
 - b. Minimum 3 years' experience in successful epoxy injection for at least 10,000 linear feet of successful crack injection including 2,000 linear feet of wet crack injection to stop water leakage.
3. CONTRACTOR shall retain the services of a qualified and authorized technical representative of the materials manufacturer to provide a site visit to specifically address the parameters of the repair and provide recommendations at the beginning of the installation and to make periodic visits to ensure that the work is performed in accordance with the manufacturer's recommendations and achieves the repair objectives.

1.3 SUBMITTALS

- A. Product Data: Submit copies of manufacturer's specifications and installation instructions for all materials and accessories including:
1. Manufacturer's recommended surface preparation procedures and application instruction for epoxy adhesives.
 2. Installation instructions for repairing core holes with epoxy grout.
 3. Manufacturer's Certificate of Compliance: Certified test results for each batch of epoxy adhesive.
 4. Statements of Qualification for Epoxy Adhesive:
 - a. Manufacturer's site representative.
 - b. Injection applicator.
 - c. Injection pump operating technician.
 5. Epoxy adhesive two component ratio and injection pressure test records for concrete crack repair work.

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1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Packing and Shipping: Package adhesive material in new sealed containers and label with the following information:
1. Manufacturer's name.
 2. Product name and lot number.
 3. Material Safety and Data Sheet, MSDS.
 4. Mix ratio by volume.
- B. Store adhesive containers at ambient temperatures below 100°F and above 45°F. Condition adhesive before use as recommended by the manufacturer.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Materials, equipment and accessories specified in this section shall be products of one of the following:
1. Concreive Series, as manufactured by BASF Building Systems.
 2. Sikadur Series, as manufactured by Sika Corporation.
 3. Euco Series, as manufactured by Euclid Chemical Company.

2.2 EPOXY ADHESIVE

- A. Epoxy adhesive grout shall be a 100% solids 2-part water insensitive low-viscosity epoxy resin system.
- B. Epoxy shall be suitable for grouting both dry and damp cracks.
- C. Adhesive Properties:

7-day, Tensile Strength, psi	ASTM D638	5,000 min.
Tensile Elongation @ Break, percent	ASTM D638	1.0% min.
Compressive Yield Strength, 7 days @ 73°F, psi	ASTM D695	8,000 min.
Compressive Modulus, psi	ASTM D695	1.5x10 ⁵ min.
Heat Deflection Temperature, °F	ASTM D648	120 min.
Water Absorption @ 24 hours, percent	ASTM D570	1.0% max.
Bond Strength @ 2 days, psi	ASTM C882	1,000 min.
Bond Strength @ 14 days, psi	ASTM C882	1,500 min.

2.3 SURFACE SEAL

- A. The surface seal material is that material used to confine the injection adhesive in the fissure during injection and cure.
- B. The surface seal material shall have adequate strength to hold injection fittings firmly in place and to resist injection pressures adequately to prevent leakage during injection.
- C. Capable of removal after injection adhesive has cured.

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PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean cracks in accordance with epoxy adhesive manufacturer's instructions.
- B. Surface adjacent to cracks or other areas of application shall be cleaned of dirt, dust, grease, oil, efflorescence or other foreign matter which may be detrimental to the integrity of the bond between the epoxy and the injection surface. Acids and corrosives used for cleaning shall not be permitted.
- C. Entry ports shall be provided along the crack at intervals of not less than the thickness of the concrete at that location, unless otherwise specified by the adhesive manufacturer.
- D. Unless the crack is in submerged concrete, remove any water that can be seen by visual inspection from the crack before the injection process, and remove water that appears during the injection process.
- E. Do not inject cracks when the temperature of the concrete is below freezing and moisture conditions indicate the possibility of ice on the internal surfaces of the crack.
- F. Do not inject adhesive if the temperature of the concrete is not within the range of application temperatures recommended by the manufacturer of the adhesive.

3.2 INSTALLATION

- A. Sealing: Apply surface seal in accordance with manufacturer's instructions to designated crack face prior to injection. Seal surface of crack to prevent escape of injection epoxy.
- B. Entry Ports:
 - 1. Establish openings for epoxy entry in surface seal along crack.
 - 2. Determine space between entry ports equal to thickness of concrete member to allow epoxy to penetrate the full thickness of the wall.
 - 3. Provide a means to prevent concrete dusts and fines from contaminating the crack or ports when drilling.
 - 4. Space entry ports closer together to allow adjustment of injection pressure to obtain minimum loss of epoxy to soil at locations where:
 - a. Cracks extend entirely through wall.
 - b. Backfill of walls on one side.
 - c. Difficult to excavate behind wall to seal both crack surfaces.
 - d. Core drill to verify epoxy depth where only one side of wall is exposed.
- C. Epoxy Injection:
 - 1. Condition epoxy at a minimum of 70°F, or as recommended by the manufacturer.
 - 2. Start injection into each crack at lowest elevation entry port.
 - 3. Continue injection at first port until adhesive begins to flow out of port at next highest elevation.
 - 4. Plug first port and start injection at second port until adhesive flows from next port.
 - 5. Inject entire crack with same sequence.

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D. Finishing:

1. Cure epoxy adhesive after cracks have been completely filled to allow surface seal removal without draining or runback of epoxy material from cracks.
2. Remove surface seal from cured injection adhesive.
3. Finish crack face flush with adjacent concrete.
4. Indentations or protrusions caused by placement of entry ports are not acceptable.
5. Remove surface seal material and injection adhesive runs and spills from concrete surfaces.

E. Equipment:

1. The equipment used to meter and mix the two injection adhesive components and inject the mixed adhesive into the crack shall be portable, positive displacement type pumps with interlock to provide positive ratio control of exact proportions of the two components at the nozzle. The pumps shall be electric or air powered and shall provide in-line metering and mixing.
2. The injection equipment shall have automatic pressure control capable of discharging the mixed adhesive at any pre-set pressure up to 200 psi plus or minus 5 psi and shall be equipped with a manual pressure control override.
3. The injection equipment shall have the capability of maintaining the volume ratio for the injection adhesive prescribed by the manufacturer of the adhesive within a tolerance of plus or minus 5 percent by volume at any discharge pressure up to 160 psi.
4. Do not use batch mix pumps.

3.3 FIELD QUALITY CONTROL

A. Injection Pressure Test:

1. The mixing head of the injection equipment shall be connected and the equipment run until clear uniformly mixed material flows into the purge pail. The Operator shall engage the equipment shut-off nozzle valve and subsequently bump the on-off switch while monitoring pressure on psi gauge until the pressure reaches 200 psi. Pressure gauge shall be monitored for one minute. If pressure is maintained between 190 – 200 psi, check valves shall be considered to be functioning properly and the injection may proceed. If pressure drops below 190 psi, CONTRACTOR shall be required to have new seals installed on the check valves and the equipment shall be subsequently retested.
2. The pressure test shall be run for each injection unit at the beginning and after meal break of every shift that the unit is used in the work of crack repair.
3. The adequacy and accuracy of the equipment shall be solely the responsibility of CONTRACTOR.

B. Metering Accuracy Ratio Test:

1. The epoxy mixture ratio shall be monitored continuously while injecting by placing a strip of masking tape on the sides of the A & B reservoirs full height. After filling reservoirs, the A & B levels shall be marked and monitored while running injection machine into purge pail for a period of one minute at 160 psi discharge pressure.
2. The ratio test shall be run for each injection unit at the beginning of every shift that the unit is used in the work of crack repair and when injection work has stopped for more than 1 hour.

C. Proof of Ratio and Pressure Test:

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1. At all times during the course of the work CONTRACTOR shall keep complete and accurate records available to ENGINEER of the pressure and ratio tests specified above.
2. In addition, ENGINEER at any time without prior notification of CONTRACTOR, may request CONTRACTOR to conduct the tests specified above in the presence of ENGINEER.

D. Daily Log

1. Maintain a written daily log for each day of injection work that includes:
 - a. Ambient temperatures at the start and end of the workday and 4 hours after the end of the workday.
 - b. Weather conditions, such as rain, snow, and wind, including changes during the shift.
 - c. Crack cleaning methods, if any, including locations.
 - d. Record of injection adhesive, including manufacturer, product and batch number, and amount used each day.
 - e. Signature and printed name of person responsible for record keeping.

E. Core Testing

1. Initial Cores:
 - a. Obtain 4-inch diameter cores for the full crack depth taken from ENGINEER selected locations.
 - b. Visual inspection for depth of penetration:
 - 1) Three cores from the first 100-feet and one core for each 100-feet thereafter.
 - 2) It is permitted to obtain 2-inch cores if they are only used to verify adhesive penetration.
 - c. Splitting tensile strength per ASTM C496:
 - 1) One core for the first 100-feet and once core for each 75-feet thereafter.
 - d. Mark each of the cores with a "T" for top or "B" for bottom for cores taken vertically, or "H" for cores taken horizontally.
 - e. Mark the respective end of the core with the letters "IS" (injection side) to indicate the side from which the injection was performed.
2. Test Requirements:
 - a. Adhesive Penetration: Minimum of 90% of the crack shall be full of epoxy adhesive.
 - b. Splitting tensile strength / Compression Test: Concrete failure before adhesive failure, or 6,500 psi with no failure of either concrete or adhesive.
3. Acceptance Criteria:
 - a. If initial cores pass the tests as specified, epoxy adhesive injection Work at the area represented by cores will be accepted.
 - b. If adhesive penetration or bond strength are not acceptable, stop injection Work until the areas represented by the testing are accepted, and changes in procedures or materials for continued injection Work have been accepted. Reinject adhesive in the locations where injection has not been acceptable. If partial injection has blocked all access to the cracks on surfaces that can be reinjected, drill injection holes into the concrete to intersect the crack in their void areas.

F. Core Hole Repair:

1. Fill core holes with epoxy grout as required by the Project Specifications. Finish surface shall blend with adjacent concrete.

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+ + END OF SECTION + +

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SECTION 04200

CONCRETE MASONRY UNITS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes: All masonry work shown on the Drawings. It also includes providing openings in masonry, to accommodate the Work under other Sections, and building into the masonry all items such as sleeves, anchor bolts, inserts and all other embedded items for which placement is not specifically provided under other Sections.

1.2 REFERENCES

- A. American Concrete Institute (ACI)
1. ACI 315, "Manual of Standard Practice for Detailing Reinforced Concrete Structures."
- B. American Society for Testing and Materials (ASTM)
1. ASTM A36, Carbon Structural Steel, Standard Specification for.
 2. ASTM A82, Steel Wire, Plain, for Concrete Reinforcement, Standard Specification for.
 3. ASTM A153, Zinc Coating (Hot Dip) on Iron and Steel Hardware, Standard Specification for.
 4. ASTM A167, Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet and Strip, Standard Specification for.
 5. ASTM A240, Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels, Standard Specification for.
 6. ASTM A366, Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality, Standard Specification for.
 7. ASTM A569, Steel, Carbon (0.15 Maximum Percent), Hot-Rolled Sheet and Strip, Commercial Quality, Standard Specification for.
 8. ASTM A580, Stainless Steel Wire, Standard Specification for.
 9. ASTM A615, Deformed and Plain Billet-Steel Bars for Concrete Reinforcement, Standard Specification for.
 10. ASTM A663, Steel Bars, Carbon, Merchant Quality, Mechanical Properties, Standard Specification for.
 11. ASTM C5, Quicklime for Structural Purposes.
 12. ASTM C67, Standard Methods of Sampling and Testing Brick.
 13. ASTM C90, Load-bearing Concrete Masonry Units, Standard Specification for.
 14. ASTM C91, Masonry Cement.
 15. ASTM C136, Sieve or Screen Analysis of Fine and Coarse Aggregates.
 16. ASTM C140, Sampling and Testing Concrete Masonry Units, Standard Test Methods of.
 17. ASTM C144, Aggregate for Masonry Mortar.
 18. ASTM C150, Portland Cement.
 19. ASTM C180, Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry.
 20. ASTM C207, Hydrated Lime for Masonry Purposes.
 21. ASTM C270, Mortar for Unit Masonry.
 22. ASTM C331, Lightweight Aggregates for Concrete Masonry Units, Standard Specification for.
 23. ASTM C404, Aggregates for Masonry Grouts.

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24. ASTM C426, Linear Drying Shrinkage of Concrete Masonry Units, Standard Test Method for.
 25. ASTM C476, Grout for Masonry.
 26. ASTM C744, Prefaced Concrete and Calcium Silicate Masonry Units, Standard Specification for.
 27. ASTM C1019, Standard Test Method of Sampling and Testing Grout.
 28. ASTM D2240, Rubber Property - Durometer Hardness, Standard Test Method for.
 29. ASTM E84, Surface Burning Characteristics of Building Materials, Standard Test Method for.
 30. ASTM E119, Fire Tests of Building Construction and Materials, Standard Test Methods for.
- C. Brick Institute of America
1. "Technical Notes on Brick and Tile Construction."
 2. Technical Bulletin 1A, "Construction and Protection Recommendations for Cold Weather Masonry Construction."
- D. National Concrete Masonry Association,
1. "Guide Specifications"
 2. "Technical Bulletins."
- E. Underwriters Laboratories (UL)
1. Design Numbers U901 through U914.

1.3 SYSTEM DESCRIPTION

- A. Coordination:
1. Review installation procedures under other Sections and coordinate the installation of items that must be installed with the masonry Work.
 2. Masonry Work advanced without built-in flashings and other items shall be removed and rebuilt, at no additional cost to OWNER, even if discovered after masonry has been completed.
 3. Coordinate the work of other Sections to avoid delay of the masonry Work.

1.4 SUBMITTALS

- A. Shop Drawings:
1. Complete layout of all masonry walls showing modular planning and all special shapes to be used. Show all details for each condition encountered in the Work. Provide plans and elevations drawn at 1/4-inch scale and details drawn at 1½-inch scale. Show all items required to be built into masonry.
 2. Masonry control joint locations and details.
 3. Fabrication, bending, and placement of reinforcing bars. Show bar schedules, diagrams of bent bars, stirrup spacing, lateral ties and other arrangements and assemblies as required for fabrication and placement of reinforcing for masonry Work.
 4. Explanation of where each masonry accessory will be used in the Work, quantities purchased and intended spacings.

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- B. Samples:
1. One unit of each type of concrete masonry unit specified.
 2. One unit or one modular length of each accessory item specified.
 3. Each type of colored mortar, showing the range of color that can be expected in the Work.
- C. Product Data:
1. Complete selection of manufacturer's standard and custom colors.
 2. Mix designs for grout and mortar.
 3. Manufacturer's specifications and instructions for each manufactured product. Include data substantiating that materials comply with specified requirements.

1.5 QUALITY ASSURANCE

- A. Requirements of Regulatory Agencies:
1. Comply with the applicable requirements of International Building Code, including the requirements for Special Inspection.
 2. Wherever a fire-resistance classification is shown or scheduled for masonry Work (4-hour, 3-hour, and similar designations), comply with applicable requirements for materials and installation established by UL and other governing authorities.
- B. Source Quality Control:
1. Obtain all concrete masonry units from one manufacturer, cured by one process and of uniform texture and color or in an established uniform blend thereof. Cure units by autoclave treatment at minimum temperature of 350°F, and a minimum pressure of 125 psi.
 2. Do not change source or brands of materials during the course of the Work.
 3. No change shall be made in the proportions for mortar or grout, unless resubmitted and re-approved by the ENGINEER.
- C. Construction Tolerances:
1. Variation from Plumb: For lines and surfaces of columns, walls, and expansion joints, do not exceed 1/4-inch in 10-feet, or 3/8-inch in one story height or 20-feet maximum, nor 1/2-inch in 40-feet or more.
 2. Variation from Level: For lines of exposed lintels, sills, parapets, horizontal grooves and other conspicuous lines, do not exceed 1/4-inch in any bay or 20-feet maximum, nor 1/2-inch in 40-feet or more.
 3. Variation of Linear Building Line: For position shown and related portion of columns, walls and partitions, do not exceed 3/8-inch in any bay or 20-feet maximum, nor 1/2-inch in 40' or more.
 4. Variation in Cross-Sectional Dimensions: For columns and thickness of walls, do not exceed +1/2-inch-1/4-inch from dimensions shown.
- D. Preconstruction Conference: Prior to the installation of masonry Work, CONTRACTOR shall schedule a Preconstruction Conference at the project site.
1. Review foreseeable methods and procedures related to the masonry Work including, but not necessarily limited to, the following:
 - a. Project requirements, including Contract Documents.
 - b. Method of sequence of masonry construction.
 - c. Special masonry details.
 - d. Required submittals, both completed and yet to be completed.
 - e. Standards of workmanship.
 - f. Quality control requirements.

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- g. Job organization and availability of materials, tradesmen, equipment and facilities needed to make progress and avoid delays.
- h. Modular planning requirements.
- i. Weather and forecasted weather conditions and procedures for coping with unfavorable conditions.
- j. Required inspection, testing and certifying procedures.
- k. Regulations concerning building code compliance.
- 2. Attendance is mandatory for the following:
 - a. CONTRACTOR'S job superintendent.
 - b. Masonry subcontractor's job superintendent.
 - c. Masonry subcontractor's foreman.
 - d. Authorized representative of concrete unit masonry supplier.
 - e. ENGINEER'S authorized representative.
- 3. Reconvene the meeting at the earliest opportunity if additional information must be developed in order to conclude the subjects under consideration and to resolve any outstanding issues.
- 4. CONTRACTOR shall record the discussions of the conference and the decisions and agreements (or disagreements) and furnish a copy of the record to each party attending.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Delivery of Materials:

- 1. Deliver concrete masonry units in original, unopened and undamaged packages and pallets, plainly marked with identification of materials and name of approved manufacturer. Delivery shall be by the manufacturer or manufacturer's agent.
- 2. Deliver reinforcing to the site, bundled, tagged and marked. Use metal tags indicating size, lengths and other markings shown on approved Shop Drawings.
- 3. Manufactured materials, such as cement and lime, shall be delivered and stored in their original containers plainly marked with identification of materials and manufacturer.

B. Storage of Materials:

- 1. Store materials off the ground, protected from dirt, construction traffic and contamination. Cover using tarpaulins or polyethylene sheets to prevent damage such as wetting, staining, and chipping.
- 2. Do not stack concrete masonry units higher than recommended by manufacturer.

C. Handling Materials:

- 1. Handle materials in a manner that minimizes chips, cracks, voids, discolorations or other defects that might be visible or cause staining in finished Work.

1.7 JOB CONDITIONS

- A. Site Facilities: Supplemental heat sources, as may be required, should CONTRACTOR wish to continue masonry Work in cold weather if not available at the project site. The provision of all supplemental heat energy sources and equipment is the responsibility of CONTRACTOR.

B. Environmental Requirements:

- 1. Do not place any masonry Work when air temperature is below 28°F, on rising temperatures or below 36°F, on falling temperatures, without temporary heated

enclosures or without heating materials or other precautions necessary to prevent freezing.

2. No frozen materials shall be used, nor shall frozen masonry Work be built upon.
3. Remove and replace all masonry Work damaged by frost or freezing.

C. Protection:

1. Protect all masonry against freezing for at least 48 hours after being placed.
 - a. Mean Daily Air Temperature 40°F to 32°F: Protect masonry from rain for 48 hours after installation.
 - b. Mean Daily Temperature 32°F to 20°F: Completely cover masonry with insulating blankets for 48 hours.
 - c. Mean Daily Air Temperature 20°F and Below: Maintain masonry above 32°F for 48 hours by enclosure and supplementary heat.
2. Protect partially completed masonry against rapid heat loss and from water entering it when Work is not in progress, by covering top of walls with strong, waterproof, nonstaining membrane. Extend membrane at least 2' down both sides of walls and secure in place using wall cover clamps spaced at intervals of 4' and at each end and joint of covering.
3. Do not apply distributed floor or roof loading for at least 3 days after completing masonry columns or walls.
4. Do not apply concentrated loads for at least 7 days after completing masonry columns or walls.

D. Cold Weather Masonry Work:

1. All mortar for use in masonry Work, when the mean daily temperature is below 40°F, shall be portland cement- lime-sand mortars using high early strength portland cement.
2. Air Temperature 40°F to 32°F: Heat sand or mixing water to 70°F-160°F.
3. Air Temperature 32°F to 20°F: Heat sand and mixing water to 70°F-160°F. Provide heat on both sides of wall under construction to heat constructed masonry to 40°F. Employ wind breakers when wind is in excess of 15 mph.
4. Air Temperature below 20°F: Heat sand and mixing water to 70°F-120°F. Provide enclosure and auxiliary heat to maintain air temperature above 32°F. Heat constructed masonry to 40°F. Temperature of masonry units when laid shall not be less than 20°F.

E. Hot Weather Masonry Work:

1. Preparation – Prior to conducting masonry work:
 - a. When the ambient air temperature exceeds 100°F, or exceeds 90°F with a wind velocity greater than 8 mph:
 - 1) Maintain sand piles in a damp, loose condition.
 - 2) Provide necessary conditions and equipment to produce mortar having a temperature below 120°F.
 - b. When the ambient air temperature exceeds 115°F or exceeds 105°F with a wind velocity greater than 8 mph implement the requirements above and shade materials and mixing equipment from direct sunlight.
2. Construction – While masonry work is in progress:
 - a. When the ambient air temperature exceeds 100°F, or exceeds 90°F with a wind velocity greater than 8 mph:
 - 1) Maintain temperature of mortar and grout below 120°F.
 - 2) Flush mixer, mortar transport container, and mortar boards with cool water before they come into contact with mortar ingredients or mortar.
 - 3) Maintain mortar consistency by retempering with cool water.

- 4) Use mortar within 2 hours of initial mixing.
- b. When the ambient temperature exceeds 115°F or exceeds 105°F with a wind velocity greater than 8 mph implement the requirements listed above and use cool mixing water for mortar and grout. Ice is permitted in the mixing water prior to use. Ice is not permitted in the mixing water when added to the other mortar or grout materials.
3. Protection – When the mean daily temperature exceeds 100°F or exceeds 90°F with a wind velocity greater than 8 mph, fog spray newly constructed masonry until damp, at least three times a day until the masonry is three days old.

PART 2 - PRODUCTS

2.1 GENERAL CONCRETE UNIT MASONRY

- A. General: Unless specifically modified by other requirements specified, provide concrete masonry units in compliance with the following classifications, weights, grades, colors, textures, scores, thermal resistance values and other features specified.
- B. Hollow Load-bearing Concrete Masonry Units: Provide the following:
 1. ASTM C90 medium weight.
 2. Minimum Compressive Strength: 1,900 pounds per square inch average of three units; 1,700 pounds per square inch minimum for an individual unit. The manufacturer shall certify that the masonry units meet all requirements of ASTM C90 including the moisture content and linear shrinkage requirements for intermediate conditions.
- C. Color and Texture: Provide the following:
 1. Manufacturer's complete selection of all standard and all custom colors. Submit preliminary color selection for review by ENGINEER.
 2. Color, surface texture and aggregate uniform within the normal range established by sample submission and as approved by ENGINEER.
- D. Special Shapes: Provide the following where required:
 1. Lintels, bond beams, reinforcing units, and flush-end reinforcing units, interior and exterior corner shapes, solid jambs, sash block, coves, premolded control joint blocks, headers, and other special conditions.
 2. Split-face, scored, and other facings, and special sizes, as shown on the Drawings.
- E. Waterproofing Admixture: Manufacture all types of concrete unit masonry, used in construction of exterior walls with an integral waterproofing admixture as follows:
 1. Material: Cross-linking acrylic polymer.
 2. Proportion: In strict accordance with manufacturer's instructions.
 3. Product and Manufacturer: Provide one of the following:
 - a. DRY-BLOCK Admixture by W. R. Grace & Company Construction Products Division.
 - b. Moxie Shield 1800 by Moxie International.
 - c. Or equal.

2.2 MORTAR

- A. General: Anti-freeze admixture or agents, including calcium chloride are not permitted.

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- B. Mortar for All Unit Masonry: Type S. Comply with ASTM C270, Table 2, except limit materials to those specified herein.
1. Portland cement-Lime: Provide the following proportions by volume:
 - a. Portland Cement: 1 part.
 - b. Hydrated Lime or Lime Putty: 1/4 to 1/2.
 - c. Aggregate (sand in damp, loose condition): 2¼ to 3 times the sum of cementitious materials.
 - d. Pigment: as required to match approved sample.
 2. Properties:
 - a. Average Compressive Strength, ASTM C270: 1,800 pounds per square inch.
 - b. Minimum Water Retention, ASTM C270: 75%.
 - c. Maximum Air Content, ASTM C270: 12% for Portland cement - lime mortars.

2.3 MASONRY GROUT

- A. Proportion coarse grout mixes subject to the following limitations:
1. Specified 28-day Compressive Strength: 2,000 psi
 2. Minimum Cementitious Content: 550 lb/cu yd
 - a. Fly ash per ASTM C618 may be used replace cement but shall not exceed 20% by weight of cement plus fly ash.
 3. Maximum Water-Cement Ratio by Weight: 0.52
 4. Slump at point of placement: 8" to 11"
- B. Proportion mixes by either laboratory trial batch or field experience methods, using materials to be employed on the Project for grout required. Comply with ACI 211.1.

2.4 MATERIALS

- A. Portland Cement:
1. ASTM C150: Use Type II.
 2. Nonstaining and of natural color or as required to be compatible with the approved pigment.
- B. Hydrated Lime: ASTM C207, Type S, or lime putty ASTM C5.
- C. Aggregates: ASTM C33 and as herein specified.
1. Do not use aggregates containing soluble salts or other substances such as iron sulfides, pyrite, marcasite, ochre, or other materials that can cause stains on exposed surfaces.
 2. Fine Aggregate: Clean, sharp, natural sand, free from loam, clay, lumps or other deleterious substances. For mortar, ASTM C144, except for mortar for joints less than 1/4-inch use aggregate graded with 100% passing the No. 16 sieve.
 3. Colored/ White Mortar Aggregates: Provide ground marble, granite or other sound stone, as required to match the approved sample.
 4. Coarse Aggregate: Clean, uncoated, processed aggregate containing no clay, mud, loam, or foreign matter, as follows:
 - a. Crushed stone, processed from natural rock or stone.
 - b. Washed gravel, natural or crushed. Use of slag and pit or bank run gravel is not permitted.
 - c. Coarse Aggregate Size: ASTM C33, No. 8 or 89.
- D. Admixtures:

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1. Provide admixtures produced by established reputable manufacturers and use in compliance with the manufacturer's printed instruction. Do not use admixtures that have not been incorporated and tested in the accepted mixes. Refer to Section 03300, Cast-In-Place Concrete, for additional admixture requirements.
 2. Waterproofing Admixture for Exterior Concrete Unit Masonry: Provide a cross-linking acrylic polymer integral waterproofing system, proportioned and mixed in strict accordance with manufacturer's instructions. Provide one of the following:
 - a. DRY-BLOCK Mortar Admix by W.R. Grace & Company Construction Products Division.
 - b. Moxie Shield 1800 by Moxie International.
 - c. Or equal.
- E. Colored Mortar Pigments:
1. Commercial iron oxide, manganese dioxide, ultramarine blue, chromium oxide, or carbon black, compounded for use in mortar mixes.
 2. Do not exceed pigment to cement ratios, by weight, of 1 to 35 for carbon black and 1 to 7 for other pigments.
 3. Product and Manufacturer: Provide one of the following:
 - a. Truetone Mortar Colors by Frank D. Davis Co., subsidiary of Rockwood Industries, Inc.
 - b. Sonobrite by Sonneborn Building Products Division Rexnord Chemical Products, Inc.
 - c. Or equal.
- F. Water: Clean and free from injurious amounts of oils, acids, alkalis, or organic matter.

2.5 REINFORCING

- A. Reinforcing Bars: ASTM A615, Grade 60 for all bars. Shop-fabricate reinforcing bars that are shown or required to be bent or hooked. Comply with ACI 315 for the fabrication of reinforcing steel for masonry Work.
- B. Wire products: Ties, and rebar positioners shall be fabricated from cold-drawn steel wire complying with ASTM A82 and hot-dipped galvanized after fabrication with 1.5 ounces per square foot of zinc coating complying with ASTM A153.
- C. Rebar Positioners: Nine gage reinforcing bar positioners which accommodate both horizontal and vertical reinforcing steel. Provide one of the following:
1. #RB Series Rebar Positioners by Hohmann & Barnard, Inc.
 2. Or equal.

2.6 MISCELLANEOUS ACCESSORIES

- A. Compressible Filler: Provide watertight joint filler where masonry abuts structural framework members, and as shown. Provide the following:
1. Polyurethane foam strip saturated with polybutylene waterproofing material which when installed at A compression ratio of 2:1 is impermeable to water.
 2. Resilient to -40°F with 100% movement recovery.
 3. Elongation of 140% with a tensile strength of not less than 53 psi.
 4. Product and Manufacturer: Provide one of the following:
 - a. Polyseal by Sandell Construction Solutions.
 - b. Or equal.

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- B. Premolded Control Joint Strips: Provide complete selection of solid extruded rubber strips with a Shore A durometer hardness of 80 to 90 complying with ASTM D2240, designed to fit standard sash block and maintain lateral stability in masonry wall. Provide one of the following:
 - 1. #RS Series - Rubber Control Joints by Hohmann & Barnard, Incorporated.
 - 2. Or equal.
- C. Sealants: Refer to Section 07900, Joint Sealants.

PART 3 - EXECUTION

3.1 INSPECTION

- A. CONTRACTOR and his installer shall examine areas and conditions under which masonry Work is to be installed, and notify ENGINEER, in writing, of unsatisfactory conditions. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.
- B. Special Masonry Inspection:
 - 1. The OWNER will employ a testing laboratory to perform Special Masonry Inspections in accordance with Chapter 17 of the current Building Code.
 - 2. Masonry inspection services will be provided during the following construction activities:
 - a. During laying of units:
 - 1) During the first day of the masonry construction, inspect proportions of site prepared mortar, construction of mortar joints, location of all reinforcing and connectors, size and location of structural elements, type, size and location of anchors, protection of masonry during cold weather.
 - 2) Inspection to be continuous the first full day of masonry construction which requires special inspection.
 - a) Thereafter, a minimum of 3 hours every third day of construction until the concrete masonry work is complete.
 - 3) Inspection while laying masonry units may be made concurrently with other inspection duties provided all inspection duties are adequately performed.
 - 4) When deficiencies are found, additional inspection shall be provided as required until deficiencies have been corrected.
 - 5) If masonry crews change, an additional full day of inspection is required during the first day the new crew is on-site.
 - b. Placement of reinforcing steel:
 - 1) Verification of all reinforcing including size, grade, lap lengths, and type.
 - 2) Inspection of all reinforcing shall be continuous at Risk Category IV structures.
 - 3) Inspector to be present during the concrete pour in which any dowels connecting concrete to masonry are cast to verify proper location of dowels.
 - c. Prior to each grouting operation, verify that grout space is clean, reinforcing and connectors are properly placed, proportions of site-prepared grout are correct and mortar joints have been properly constructed.
 - 1) Inspection shall be continuous prior to and during grout placement at Risk Category IV structures.
 - d. Verify compliance with International Building Code and Specifications continuously during all grouting operations.

- e. Provide special inspection in accordance with ACI 530 Table 3.1.3 for Risk Category IV structures including observation of masonry work for conformance to the Contract Documents:
 - 1) Provide inspection reports to the ENGINEER, Building Official and OWNER.
 - a) Notify Contractor of discrepancies for correction.
 - b) Notify ENGINEER, Building Official and OWNER, in writing, when discrepancies have been satisfactorily corrected.
 - 2) Submit final signed report stating that Work requiring special inspection was, to the best of the inspector's knowledge, in conformance to the Contract Documents and the applicable workmanship provisions of the International Building Code.

3.2 INSTALLATION, GENERAL

- A. Build chases and recesses as shown or required by others. Provide not less than 8-inch of masonry between chase or recess and jamb of openings, and between adjacent chases and recesses.
- B. Leave openings for equipment, piping, ducts, and other items to be installed subsequent to starting of masonry Work. After installation of said items, complete masonry Work to match Work immediately adjacent to openings.
- C. Cut masonry units using motor driven saws to provide clean, sharp, unchipped edges. Cut units as required to provide pattern shown and to fit adjoining Work neatly. Use full size units without cutting wherever possible.

3.3 LAYING MASONRY WALLS

- A. General:
 - 1. Lay out walls in advance for accurate spacing of surface pattern bond with uniform joint widths and to properly locate openings, masonry control joints, returns and offsets. Avoid the use of less than half size units at corners, jambs and wherever possible at other locations.
 - 2. Lay up walls plumb and true to comply with specified tolerances, with courses level, accurately spaced and coordinated with other Work.
 - 3. Pattern Bond:
 - a. Lay all concrete masonry Work in running bond with vertical joints in each course centered on units in courses above and below unless otherwise shown.
 - b. Bond and interlock each course of each wythe at corners.
 - c. Do not use units with less than 8-inch horizontal face dimensions at corners or jambs.
- B. Mortar Bedding and Jointing:
 - 1. Lay hollow concrete masonry units with full mortar coverage on horizontal and vertical face shells. Bed webs in mortar in starting course of piers, columns and pilasters, and where adjacent to cells or cavities to be reinforced or filled with concrete or grout.
 - a. Lay walls with 3/8-inch joints.
 - 2. Cut joints flush for masonry walls that are to be concealed or to be covered by other materials, except paint, unless otherwise shown.
 - 3. Tool exposed joints when mortar is "thumbprint" hard, slightly concave, unless otherwise required to match existing joint treatment. Rake out mortar in preparation for application of caulking or sealants where required.

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4. Concave-tool exterior joints below grade.
 5. Do not use mortar that has begun to set or if more than 30 minutes have elapsed since initial mixing. Do not retemper mortar.
 6. Remove masonry units disturbed after laying; clean and reset in fresh mortar. Do not pound corners at jambs to fit stretcher units which have been set in position. If adjustments are required, remove units, clean off mortar and reset in fresh mortar.
- C. Stopping and Resuming Work: Rack back 1/2-unit masonry length in each course, and do not tooth. Clean exposed surfaces of set masonry, wet units lightly, if required, and remove loose masonry units and mortar prior to laying new masonry.
- D. Built-in Work: As the Work progresses, build in items shown, specified or required by others. Fill cores in one block width solidly with masonry grout around built-in items.
- E. Structural Reinforced Masonry:
1. Shape and dimension reinforcement as shown and are required by governing codes.
 2. Position reinforcing accurately at the spacing shown. Support and secure vertical bars against displacement with rebar positioners.
 3. For columns, piers and pilasters, provide a clear distance between vertical bars as shown, but not less than 1½-inch. Provide lateral ties.
 4. For horizontal bars, provide fully-lapped "L" shaped corner bars at corners and intersections.
 5. Provide lapped splices with reinforcing steel placed in contact with rebar positioners or tied. Provide 48 bar diameter lap length, unless otherwise shown.
- F. Grouting Structural Reinforced Masonry:
1. Place grout within 1.5 hours from introducing water in the mixture and prior to initial set. Discard grout that does not meet the specified slump, has exceeded the 1.5 hour timeframe or has reached initial set.
 2. Solid grout all walls, beams, piers and pilasters, unless noted otherwise.
 3. Provide temporary dams where required or barriers to control horizontal flow of grout at ends of wall sections. Build dams full height of grout pour. If masonry units are used, do not bond into permanent masonry wythes. Remove temporary dams after completion of grout pour.
 4. Grout pour height shall not exceed 5.33 feet for grouting cells of hollow units with dimensions equal to or greater than 2.5"x3".
 5. Grout pour height shall not exceed 1 foot for grouting cells of hollow units with dimensions less than or equal to 1.5"x3".
 6. Terminate pour 1½-inch below top of highest course in pour.
 7. Provide metal wall ties, if required, to prevent blow outs.

3.4 ANCHORING MASONRY WORK:

- A. Anchor masonry to structural members where masonry abuts or faces, such members to comply with the following:
1. Provide an open space, not less than 1/2-inch in width, between masonry and structural member, unless otherwise shown. Keep open space free of mortar or other rigid materials.
 2. Anchor masonry to structural members with metal ties embedded in masonry joints and attached to structure. Provide anchors with flexible tie sections, unless otherwise shown.
 3. Space anchors as shown, but not more than 8-inch on center vertically and 36-inch on center horizontally.

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4. Provide end blocks, where masonry abuts structural support, to facilitate installation of compressible filler, backer rod and sealant.
- B. Lintels and Bond Beams: Provide masonry lintels and bond beams where shown. Use specially formed "U" shaped lintel and bond beam units with reinforcing bars placed as shown, filled with grout. Temporarily support formed-in-place lintels and bond beams.

3.5 REPAIR, POINTING AND CLEANING

- A. Remove and replace masonry units which are loose, chipped, broken, stained or otherwise damaged, or if units do not match adjoining units as intended. Provide new units to match adjoining units and install in fresh mortar or grout, pointed to eliminate evidence of replacement.
- B. Pointing: During the tooling of joints, enlarge any voids or holes, except weep holes, and completely fill with mortar. Point up all joints at corners, openings and adjacent Work to provide a neat, uniform appearance, properly prepared for application of sealant compounds.
- C. Cleaning Exposed, Unglazed Masonry Surfaces:
 1. Wipe off excess mortar as the Work progresses. Dry brush at the end of each day's Work.
 2. Final Cleaning: After mortar is thoroughly set and cured, clean sample wall area of approximately 20-square feet as described below. Obtain ENGINEER'S acceptance of sample cleaning before proceeding to clean remainder of masonry Work.
 - a. Dry clean to remove large particles of mortar using wood paddles and scrapers. Use chisel or wire brush if required.
 - b. Presoak wall by saturating with water and flush off loose mortar and dirt.
 - c. Acid type cleaners shall not be permitted.
 - d. Protect other Work from cleaning operations.
- D. Protection: Protect the masonry Work from deterioration, discoloration or damage during subsequent construction operations.

+ + END OF SECTION + +

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SECTION 05051

ANCHORS, INSERTS, AND DOWELS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes all post-installed anchors and inserts required to anchor parts of the Work to supporting concrete or masonry construction, and plaster. This Section also includes adhesives for anchoring reinforcing dowels into existing concrete.

1.2 REFERENCES

- A. American Society for Testing and Materials
 1. ASTM A36, Standard Specification for Structural Steel.
 2. ASTM A123, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 3. ASTM A153, Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
 4. ASTM A194, Standard Specification for Carbon and Alloy Steel Nuts for High-Pressure or High-Temperature Service, or both.
 5. ASTM A307, Standard Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile.
 6. ASTM A320, Standard Specification for Alloys - Steel Bolting Materials for Low-Temperature Service.
 7. ASTM A484, Standard Specification for General Requirements for Stainless and Heat-Resisting Steel Bars, Billets and Forgings.
 8. ASTM A525, Standard Specification for General Requirements for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.

1.3 SYSTEM DESCRIPTION

- A. Provide the size, type, and length of anchor shown on the drawings or, if not shown, as specified in the detailed sections of these specifications.
- B. When the size, length or load carrying capacity of an anchor bolt, expansion anchor, toggle bolt, or concrete insert is not shown or specified, provide the size, length and capacity required to carry the design load times a minimum safety factor of 4.
- C. For equipment anchors, if the design load is not specified by the manufacturer, provide anchors of diameter no less than the diameter of the hole minus 3/16 inch. When the design load is not specified by the manufacturer, provide structural calculations in accordance with Section 01610.

1.4 SUBMITTALS

- A. Product Data: Submit for approval copies of material certification, manufacturer's specifications, load tables, dimension diagrams and installation instructions for the devices.

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- B. Installer's Qualifications: When installing adhesive anchors subject to sustained tension loading or when specifically noted in the Drawings, submit for approval copies of the installer's qualifications certified by the ACI/CRSI Adhesive Anchor Installer Certification program.

1.5 QUALITY ASSURANCE

- A. Post-installed concrete anchors shall be ICC approved for seismic applications in cracked concrete and prequalified in accordance with ACI 355.2 or ACI 355.4.

PART 2 - PRODUCTS

2.1 ANCHOR BOLTS

- A. Nonsubmerged Use in areas of wet use, washdown areas, or areas outside heated buildings:
 - 1. Stainless steel Type 316, unless otherwise shown.
 - 2. Diameter, Length and Bend Dimensions: As required by equipment or machinery manufacturer. Unless otherwise required, provide 3/4-inch minimum diameter by 12-inches long and other geometry as shown.
 - 3. Furnish A320 nuts and washers of same material for each bolt, unless otherwise shown.
 - 4. Provide sleeves as required or as shown for location adjustment.
- B. Submerged Use:
 - 1. Submerged use is defined as any connection 1 foot 6 inches below the normal water surface elevation in a water holding basin.
 - 2. As specified for nonsubmerged use, for equipment, machinery or other connections except as follows:
 - a. Coating of anchor bolt threads is not required.
 - b. Where threads are covered with fusion bonded coating, provide nut of proper size to fit and provide connection of equal strength to embedded bolt.
- C. For anchoring fabricated metalwork, structural steel, or other components where connections will be protected or dry:
 - 1. Galvanized Steel, 36 ksi, minimum.
 - 2. Minimum Size: 3/4-inch diameter by 12-inch long, unless otherwise shown.
 - 3. At base plates with grout pads, furnish two nuts and two washers per bolt of same material as bolt, unless otherwise shown.

2.2 ANCHOR BOLT SLEEVE

- A. High Density Polyethylene Plastic:
 - 1. Single unit construction with deformed sidewalls such that the concrete and grout lock in place.
 - 2. The top of the sleeve shall be self-threading to provide adjustment of the threaded anchor bolt projection.
 - 3. Material requirements shall conform to the following:
 - a. Plastic: High density polyethylene.
 - b. Density: 0.956, ASTM D1505.
 - c. Vicant Softening Point: 256°F, ASTM D1525

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d. Brittleness Temperature: -180°F, ASTM D746

B. Fabricated Steel Sleeve:

1. Material: A36 steel.
2. Dimensions, welding, and sizes as shown.

2.3 STAINLESS STEEL FASTENERS LUBRICANT (ANTISEIZING)

- A. Provide for stainless steel nuts and machined bolts, anchor bolts, concrete anchors, and all other threaded fasteners.
- B. Lubricant shall contain substantial amounts of molybdenum disulfide, graphite, mica, talc, or copper as manufactured by:
1. Loc Tite Co., Permatex.
 2. Or equal

2.4 ADHESIVE (EPOXY) ANCHORS AND DOWELS

- A. Provide adhesive anchors where specifically shown and where adhesive anchors are allowed. Unless otherwise shown, adhesive anchors are allowed for anchoring:
1. Supports for pipe, conduit, and electrical boxes, devices, and panels, on floors and walls
 2. Handrails, guardrails, sunshades, stairs,
 3. Fixtures and equipment on floors and walls, and
 4. Single pipes and conduits <2 inch in diameter to ceilings and soffits.
- B. Adhesive shall be epoxy resin. Vinylester resin anchors are NOT allowed.
- C. Product and Manufacturer: Provide one of the following:
1. Installation to Concrete:
 - a. HIT-HY 200 as manufactured by Hilti, Inc.
 - b. SET-XP as manufactured by Simpson Strong-Tie, Inc.
 - c. Or approved equal meeting ACI 355.4.
 2. Installation to solid-grouted Masonry:
 - a. HIT-HY 70 as manufactured by Hilti, Inc.
 - b. SET as manufactured by Simpson Strong-Tie, Inc.
 - c. Or approved equal.

2.5 EXPANSION ANCHORS

- A. Provide expansion anchors only where specifically shown and where expansion anchors are allowed. Unless otherwise shown, and except as noted below, expansion anchors are allowed for anchoring:
1. Supports for pipe, conduit, and electrical boxes, devices, and panels, to floors and walls.
 2. Handrails, guardrails, and sunshades.
 3. Fixtures and equipment which have no moving parts, to floors and walls.
- B. Expansion anchors are NOT allowed in any submerged or chemical containment areas.
- C. Leveling nuts shall not be used with expansion anchors. If leveling nuts are required, provide adhesive anchors, unless otherwise shown.

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- D. Wedge anchors: Provide one of the following:
1. Installation to Concrete:
 - a. Hilti Kwik Bolt TZ by Hilti, Inc.
 - b. Strong-Bolt 2 by Simpson Strong-Tie, Inc.
 - c. Or approved equal meeting ACI 355.2.
 2. Installation to solid-grouted Masonry:
 - a. Hilti Kwik Bolt-3 by Hilti, Inc.
 - b. Wedge-All by Simpson Strong-Tie, Inc.
 - c. Or approved equal.

2.6 OTHERS

- A. Powder actuated fasteners and other types of anchors not specified herein shall not be used, unless approved by ENGINEER.

2.7 ACCESSORIES

- A. Provide Belleville washers, or approved equal, at anchorage connections used to transfer anchorage loads at sheet metal equipment housings.

PART 3 - EXECUTION

3.1 INSTALLATION OF ANCHORS

- A. Obtain anchor bolts in sufficient time so as not to delay concrete or masonry work.
- B. Adhesives shall be stored and installed at the service temperature ranges recommended by the manufacturer.
- C. Locate and accurately set the anchor bolts using templates or other devices as necessary.
- D. Protect threads and shank from damage during installation of equipment and structural steel.
- E. Post-installed anchors are NOT acceptable substitutes for cast-in-place anchor bolts.
- F. Assure that embedded items are protected from damage and are not filled in with concrete.
- G. Unless otherwise shown, the minimum diameter of anchor bolts for structural steel is $\frac{3}{4}$ inch, and for other applications, $\frac{3}{8}$ inch.
- H. Unless otherwise shown, provide the following minimum embedment, where "d" is the nominal anchor diameter:
1. Cast-in-place anchors: 12d.
 2. Adhesive anchors: 12d.
 3. Expansion anchors: 8d.
- I. Unless otherwise shown, provide a minimum edge distance equal to six times the bolt diameter for adhesive anchors, eight times the bolt diameter for expansion anchors and a bolt spacing equal to twelve times the bolt diameter.

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- J. Concrete shall have a minimum age of 21 days at the time of post-installed anchor installation.
 - 1. Concrete temperature at the time of adhesive anchor installation shall be at least 50°F.
- K. Existing reinforcing bars in the concrete structure may conflict with specific anchor locations. Unless noted on the Drawings that the bars can be cut, the contractor shall review the existing structural drawings and shall undertake to locate the position of the reinforcing bars at the locations of the concrete anchors by ferroskan, ground penetrating rebar (GPR), x-ray, chipping or other means.
- L. Drilling equipment used and installation of post-installed anchors shall be in accordance with the manufacturer's printed instructions.
- M. For the adhesive and expansion anchors, CONTRACTOR shall comply with the manufacturer's printed installation instructions on the drilled hole diameter and depth.
- N. CONTRACTOR shall properly clean out the hole utilizing a wire brush and compressed air in accordance with the manufacturer's printed installation instructions to remove all loose material from the hole, prior to installing adhesive or expansion anchors. Drilled and cleaned anchor holes shall be protected from contamination until the anchor is installed. A drilled anchor hole shall be re-cleaned assuming the hole was just drilled, if in the opinion of ENGINEER or Inspector that the hole has become contaminated after initial cleaning.
- O. Unless otherwise indicated by the manufacturer, adhesive shall be dispensed through a tube or cartridge extension, beginning at the maximum depth of the hole and withdrawn as adhesive is injected, followed by insertion and rotating the anchor to the specified depth. Where necessary, spaces around anchors at the surface shall be sealed at horizontal to vertically overhead locations to prevent loss of the adhesive during curing.
- P. Anchors to be installed in the adhesive shall be clean, oil-free, and free of loose rust, paint, or other coatings.
- Q. Installed anchors shall be securely fixed in-place to prevent displacement. Unless shown otherwise on the Drawings, anchors shall be installed perpendicular to the concrete surface.
- R. Reinforcing adhesive dowel bars or all-threaded adhesive bars shall not be bent after being adhesively embedded in hardened, sound concrete.
- S. In lieu of the use of stacked standard washers, if threads of an anchor bolt protrude beyond the attachment, the installers shall use a fabricated filler plate of equal or greater size of the washer. Hole on the filler plate shall be 1/16" (or 2 to 3 mm) greater than the bolt size. Coat as appropriate in accordance with the material and installation location requirements.

3.2 FIELD QUALITY CONTROL

- A. Anchors shall be installed by qualified personnel in accordance with the manufacturer's printed installation instructions. Installation of adhesive anchors shall be performed by personnel trained to install adhesive anchors.

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- B. Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by the ACI/CRSI Adhesive Anchor Installer Certification program.
- C. OWNER shall employ a special inspector to perform field inspection services in accordance with Chapter 17 of the CBC for all post-installed anchors.
 - 1. The special inspector must be periodically on the jobsite during post-installed anchor installation.
 - 2. Adhesive anchors installed to resist sustained tension loads shall be continuously inspected during installation by an inspector specially approved for that purpose by the building official.
- D. CONTRACTOR shall correct improper workmanship, remove and replace, or correct as instructed by the ENGINEER, all anchors or bars found unacceptable or deficient, at no additional cost to the OWNER.
- E. The independent testing and inspection agency shall complete a report on each area. The report should summarize the observations made by the inspector and be submitted to ENGINEER.
- F. Provide access for the testing agency to places where Work is being produced so that required inspection and testing can be accomplished.

+ + END OF SECTION + +

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SECTION 05120
STRUCTURAL STEEL

PART 1 - GENERAL

1.1 SUMMARY

A. Scope:

1. Provide all labor, materials, equipment, and incidentals as shown on the Drawings, specified and required to furnish and install structural steel, including connections, surface preparation and shop priming.
2. Structural steel is that Work defined in AISC "Code of Standard Practice", Section 2, and as shown on the Drawings. The Work also includes:
 - a. Providing openings in and attachments to structural steel to accommodate the Work under this and other Sections and providing for the structural steel all items such as anchor bolts, studs and all items required for which provision is not specifically included under other Sections.

B. Coordination:

1. Review installation procedures under other Sections and coordinate the Work that must be installed with or attached to the structural steel.

1.2 SUBMITTALS

A. Shop Drawings: Submit for approval the following:

1. Complete details and schedules for fabrication and shop assembly of members and details, schedules, procedures and diagrams showing the sequence of erection.
 - a. Include details of cuts, connections, camber, holes, and other pertinent data. Indicate welds by standard AWS symbols, and show size, length, and type of each weld.
 - b. Provide setting drawings, templates, and directions for the installation of anchor bolts and other anchorages.
2. Copies of manufacturer's specifications and installation instructions for products listed below. Include laboratory test reports and other data as required to show compliance with the Contract Documents.
 - a. Structural steel of each type, including certified copies of mill reports covering the chemical and physical properties.
 - b. High strength bolts of each type, including nuts and washers.
 - c. Unfinished bolts and nuts.
 - d. Shop primer and touch-up field primer paint in accordance with Section 09900, Painting.

1.3 QUALITY ASSURANCE

A. Reference Standards and Codes: Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified:

1. ASTM A36, Specification for Carbon Structural Steel.
2. ASTM A108, Specification for Steel Bar, Carbon and Alloy, Cold Finished.
3. ASTM A307, Specification for Carbon Steel Bolts and Studs, 60,000 psi tensile strength.

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4. ASTM A325, Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.
 5. ASTM A490, Specification for Structural Bolts, Alloy Steel, Heat Treated, 150 ksi Minimum Tensile Strength.
 6. AWS D1.1, Structural Welding Code.
 7. AREA, Manual of Railway Engineering.
 8. AISC, Manual of Steel Construction.
 9. AISC, Code of Standard Practice for Steel Buildings and Bridges.
 10. AISC, Specifications for the Design, Fabrication, and Erection of Structural Steel for Buildings and including the Commentary and Supplements thereto as issued.
 11. AISC, Specifications for Structural Joints Using High-Strength Bolts, RCSC Specification.
- B. Design of Members and Connections:
1. All details shown on the Drawings are typical; similar details apply to similar conditions, unless otherwise shown on the Drawings or specified. Verify dimensions at the site without causing delay in the Work.
 2. Examine conditions under which structural steel is to be provided, and notify ENGINEER, in writing, of unsatisfactory conditions existing or whenever design of members and connections may not be clearly shown on the Drawings. Do not proceed with the Work until unsatisfactory conditions or deficiencies have been corrected in a manner acceptable to ENGINEER.
- C. Source Quality Control:
1. Materials and fabrication procedures shall be subject to inspection and tests in the mill, shop, and field, conducted by a qualified inspection agency. Such inspections and tests will not relieve CONTRACTOR of responsibility for providing materials and fabrication procedures in compliance with specified requirements.
 2. Steel fabricator shall have at least 5 years experience in the fabrication of structural steel for projects substantially similar to those required for this project.
 3. Fabrication shall be performed by a structural steel fabricating plant possessing a current certificate from AISC stating that the plant satisfies the requirements for certification for Certified Building Fabricator of the AISC Quality Management Systems Certification Program. The plant shall maintain this certification for the entire time fabrication for this project is being performed.
- D. Qualifications for Welding Work:
1. Qualify welding processes and welding operators in accordance with AWS "Structural Welding Code" D1.1, Section 5, Qualification.
 2. Provide certification that all welders employed on or to be employed for the Work have satisfactorily passed AWS qualification tests within the previous 12 months. Ensure that all certifications are kept current.
 3. All welds will be subject to visual inspection. Where visually deficient welds are observed, the welds will be tested using non-destructive methods by a certified testing laboratory. If welds are found to be satisfactory, OWNER will pay for testing. Where welds are found unacceptable or deficient, pay for testing, correct improper workmanship, remove and replace, or correct as instructed, all welds found unacceptable or deficient. Responsibility belongs to CONTRACTOR to pay for all corrections and subsequent tests required to confirm the integrity of the weld.

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1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to the site at such intervals to ensure uninterrupted progress of the Work.
 - 1. Deliver anchor bolts and anchorage devices, which are to be embedded in cast-in-place concrete or masonry, in ample time to not delay that Work.
- B. Store materials to permit easy access for inspection and identification. Keep steel members off the ground, using pallets, platforms, or other supports. Protect steel members and packaged materials from corrosion and deterioration.
 - 1. Do not store materials on the structure in a manner that might cause distortion or damage to the members or the supporting structures. Repair or replace damaged materials or structures as directed.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Wide flange sections: ASTM A992 Grade 50.
- B. Steel pipe columns: ASTM A53 Grade B.
- C. Hollow Structural Sections (HSS): ASTM A500 Grade B.
- D. Plates, Angles, Channels, and S Shapes: ASTM A36, except where other type steel is shown on the Drawings.
- E. High-Strength Threaded Fasteners: Heavy hexagonal structural bolts, heavy hexagon nuts, and hardened washers, as follows:
 - 1. Quenched and tempered medium carbon steel bolts, nuts and washers, complying with ASTM A325 or:
 - 2. Quenched and tempered alloy steel bolts, nuts and washers, complying with ASTM A490.
 - 3. ASTM F1852 high-strength bolts shall be used for twist-off / tension-controlled bolts.
 - 4. Provide ASTM F436 washers for all bolts in accordance with RCSC Specification for Structural Joints Using High-Strength Bolts.
 - 5. Provide beveled washers at connections of sloped/tapered sections.
 - 6. Unless noted otherwise, high-strength fasteners shall be used for all non-stainless steel fasteners. Pre-tension all high-strength fasteners unless noted otherwise. Pre-tension any connection with designation (SC) slip critical. Slip critical (SC) connections must be free of paint, oil, or other materials that reduce friction at contact surfaces. Galvanized or lightly rusted surfaces are acceptable.
- F. Cast-in-Place Anchor Rods:
 - 1. ASTM F1554, Grade 36 with weldability supplement S1 for threaded rods galvanized.
 - 2. Provide ASTM F436 washers at all nuts.
 - 3. Embedded anchors shall be headed with a standard square plate washer tack welded to the anchor head, unless a larger washer is shown otherwise in the Drawings.
 - 4. Only provide threads at the top of the anchor as required for connections.
- G. Common Bolts:
 - 1. ASTM A307, Grade A for headed bolts galvanized.

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- H. Stainless Steel Fasteners:
1. ASTM F593 Type 304 or 316 stainless steel with matching nut and washer for non-liquid containing (dry) structures.
 2. ASTM F593 Type 316 stainless steel for liquid-containing structures.
- I. Electrodes for Welding: E70XX complying with AWS D1.1 Section 8.
- J. Galvanizing:
1. Zinc coated hardware: ASTM A153.
 2. Fabrications: ASTM A123.
 3. Members designated as galvanized on the drawings or as directed by ENGINEER shall be galvanized after fabrication in accordance with ASTM A385. Weight of zinc coating shall not be less than 2.5 ounces per square foot of actual surface and have a coating thickness of 0.0042 inch. Coating weight will be subject to verification by ENGINEER. Thickness of coating will be measured by means of a magnetic thickness gauge.
 4. Each fabricated assembly shall be totally immersed in the galvanizing bath. The galvanizing procedure shall be such as to avoid distortion of the assembly. Straightening of members after galvanizing will not be permitted. Assemblies shall be held in the galvanizing bath until the temperature of the assembly is equal to the temperature of the bath. All deviations shall require approval by ENGINEER.
 5. Any galvanized surface which has the coating removed for any cause shall be touched up with a zinc-rich cold galvanizing compound so that the entire surface has a uniform coating of 2.5 ounces of zinc per square foot.
 6. Galvanized work shall be subject to inspection by ENGINEER at any time to ensure strict compliance with this specification. Any areas found to show defects or signs of improper galvanizing application will be rejected. Repairs shall be made by CONTRACTOR without additional cost to OWNER.
- K. Surface preparation and Finish:
1. Steel: Where not indicated to be galvanized, steel shall be primed in the shop per Section 09900, Painting. Exposed, non-galvanized, steel shall be coated per Section 09900, Painting.

2.2 FABRICATIONS

- A. Shop Fabrication and Assembly:
1. General:
 - a. Fabricate and assemble structural assemblies in the shop to the greatest extent possible. Fabricate items of structural steel in accordance with AISC, Manual of Steel Construction, and as shown on the Shop Drawings. Provide camber in structural members as shown on the Drawings.
 - b. Properly mark and match-mark materials for field assembly. Fabricate for delivery sequence, which will expedite erection and minimize field handling of materials.
 - c. Where finishing is required, complete the assembly, including welding of units, before start of finishing operations. Provide finish surfaces of members exposed in the final structure free of markings, burrs, and other defects.
 2. Field Connections:
 - a. All field connections, unless otherwise specified below or noted, shall be made with high strength bolts, and shall be bearing type connections.
 - b. Field welding may be used only where noted or approved by ENGINEER.
 3. High-Strength Bolted Construction:
 - a. Install high-strength threaded fasteners in accordance with AISC "Specification for Structural Joints Using High-Strength Bolts" (RCSC).

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4. Welded Construction: Comply with AWS Code for procedures, appearance and quality of welds, and methods used in correcting welding work.
 - a. Assemble and weld built-up sections by methods which will produce true alignment of axes without warp.
 5. Shear Connectors: Install stud shear connectors in accordance with AWS D1.1 Section 4, and as recommended by the manufacturer.
- B. Bracing:
1. Bracing shall have a minimum two bolt connection, or a shop welded connection of equivalent strength.
 2. Vertical bracing and knee braces connecting to columns shall be on the centerline of the columns, unless otherwise noted.
 3. Knee braces shall be at 45 degree angle, unless shown on the Drawings or noted.
 4. All gussets shall be minimum 3/8-inch thick, unless otherwise shown on the Drawings.
- C. Columns: Column shafts shall have "finished" bearing surfaces at the base and at all splice lines.
- D. Hollow Structural Sections (HSS): HSS shall be properly sealed to protect the internal surfaces.
- E. Holes and Appurtenances for Other Work:
1. Provide holes required for securing other work to structural steel framing, and for the passage of other work through steel framing members, as shown on the Shop Drawings. If large block-outs are required and approved by the ENGINEER, the webs shall be reinforced to develop specified shears. Provide threaded nuts welded to framing, and other specialty items as shown on the Drawings to receive other work.
 2. Cut, drill, or punch holes perpendicular to metal surfaces. Do not flame cut holes or enlarge holes by burning. Drill holes in bearing plates.
 3. Refer to Paragraph 1.1.B, above, for the requirements of coordination with others.
- F. Grind smooth all rough welds and sharp edges shall be ground to approximately 1/8 inch radius.

2.3 WELDING

- A. Comply with AWS Code, and other requirements indicated herein, for all welding, techniques of welding employed, appearance and quality of welds, and methods used to correct defective work.
1. Qualify joint welding procedures or test in accordance with AWS qualification procedures.
- B. Test and qualify welders, welding operators and tackers in compliance with AWS Code for position and type of welding to which they will be assigned.
1. Conduct tests in presence of approved testing agency.
 2. Certification within previous 12 months will be acceptable, provided samples of the welder's work are satisfactory.
- C. Before Starting Welding:
1. Carefully plumb and align members in compliance with specified requirements.
 2. Fully tighten bolts.
 3. Comply with Section 5 of AWS Code for assembly and surface preparation.

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4. Preheat base metal to temperature stated in AWS Code.
 - a. When no preheat temperature is given in AWS Code and base metal is below 50°F, preheat base metal to at least 70°F.
 - b. Maintain temperature during welding.
 - c. Preheat surface of all base metal within distance from point of welding equal to thickness of thicker part being welded or 3 inches, whichever is greater, to specified preheat temperature.
 - d. Maintain this temperature during welding.
 5. Each welder shall use identifying mark at welds.
- D. Make flange welds before making web welds.
- E. Where groove welds have back-up plates, make first three passes with 1/8 inch round electrodes.
 1. Use backup plates in accordance with AWS Code, extending minimum of 1 inch either side of joint.
- F. Flame cut edges of stiffener plates at shop or field butt weld. Do not shear.
- G. Grind flush web fillets at webs notched to receive backup plates for flange groove welds.
- H. Low Hydrogen Electrodes: Dry and store electrodes in compliance with AWS Code.
- I. Do not perform welding when ambient temperature is lower than 0°F or where surfaces are wet or exposed to rain, snow, or high wind, or when welders are exposed to inclement conditions.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine areas and conditions under which structural steel Work is to be installed, and notify ENGINEER, in writing, of conditions detrimental to proper and timely completion of Work. Do not proceed with Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.2 ERECTION

- A. General: Comply with the AISC Specifications and Code of Standard Practice, and as herein specified.
- B. Temporary Shoring and Bracing: Provide temporary shoring and bracing members with connections of sufficient strength to bear imposed loads. Remove temporary members and connections when permanent members are in place and final connections are made. Provide temporary guy lines to achieve proper alignment of the structures as erection proceeds.
- C. Anchor Bolts: Furnish anchor bolts and other connectors required for securing structural steel to foundations and other in-place Work.
 1. Furnish templates and other devices as necessary for presetting bolts and other anchors to accurate locations.

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- a. Refer to Section 05051, Anchors, Inserts and Epoxy Dowels, of these Specifications for anchor bolt installation requirements.
- D. Setting Bases and Bearing Plates: Clean concrete and masonry bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces. Clean the bottom surface of base and bearing plates.
 - 1. Set loose and attached base plates and bearing plates for structural members on steel wedges or other adjusting devices.
 - 2. Tighten the anchor bolts after the supported members have been positioned and plumbed. Do not remove wedges or shims, but if protruding, cut off flush with the edge of the base or bearing plate prior to packing with grout.
 - 3. Place non-shrink grout between bearing surfaces and bases or plates as specified in Section 03600, Grout. Finish exposed surfaces, protect installed materials, and allow curing in strict compliance with the manufacturer's instructions, or as otherwise required.
 - 4. Leveling plates and wood wedges will not be permitted.
- E. Field Assembly: Set structural frames accurately to the lines and elevations as shown on the Drawings. Align and adjust the various members forming a part of a complete frame or structure before permanently fastening. Clean bearing surfaces and other surfaces, which will be in permanent contact before assembly. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
 - 1. Level and plumb individual members of the structure within tolerances as specified in AISC Manual. For members requiring accurate alignment, clip angles, lintels and other members shall be provided with slotted holes for horizontal adjustment at least 3/8-inch in each direction, or more when required.
 - 2. Splice members only where shown on the Drawings or specified.
- F. Erection Bolts: On exposed welded construction, remove erection bolts, fill holes with plug welds and grind smooth at exposed surfaces.
- G. Comply with AISC Manual for bearing, adequacy of temporary connections, alignment, and the removal of paint on surfaces adjacent to field welds.
 - 1. Do not enlarge unfair holes in members by burning or by the use of drift pins, except in secondary bracing members. Ream holes that must be enlarged to admit bolts.
- H. Gas Cutting: Do not use gas cutting torches for correcting fabrication errors in the structural framing. Cutting will be permitted only on secondary members, which are not under stress, as acceptable to ENGINEER. Finish gas-cut sections equal to a sheared appearance when permitted.
- I. Touchup Painting:
 - 1. Unless otherwise specified below, comply with all requirements of touch-up painting specified in Section 09900, Painting.
 - 2. Immediately after erection, clean field welds, bolted connections, and all damaged and abraded areas of the shop paint. Apply paint to all exposed areas with the same material as used for shop painting. Apply by brush or spray to provide a minimum dry film thickness as specified in Section 09900, Painting.

3.3 FIELD QUALITY CONTROL

- A. The OWNER will employ a testing laboratory approved by the ENGINEER to perform field quality control testing to inspect and to perform tests and prepare test reports in accordance with CBC section 1705.2 and AISC 360.
 - 1. The testing agency shall conduct and interpret the tests and state in each report whether the test specimens comply with the requirements, and specifically state all deviations.
 - 2. Provide access for the testing agency to places where structural steel Work is being fabricated or produced so that required inspection and testing can be accomplished.
 - 3. The testing agency may inspect structural steel at the plant before shipment; however, ENGINEER reserves the right, at any time before Final Acceptance, to reject material not complying with specified requirements.
- B. Correct deficiencies in structural steel Work that inspection and/or laboratory test reports indicate do not comply with the Specifications. Perform additional tests, as may be required to reconfirm any non-compliance of the original Work, and as may be required to show compliance of corrected Work.

+ + END OF SECTION + +

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SECTION 05200

STEEL JOISTS

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings:
 - 1. Copies of manufacturer's specifications and installation instructions for each type of joist and its accessories. Include manufacturer's certification that joists comply with AISC-SJI "Specifications."
 - 2. Detailed drawings showing layout of joist units, headers, special connections, jointing and accessories. Include the mark, number, type, location and spacing of joists and bridging. Provide location drawings for installation of anchor bolts.
 - 3. Detailed drawings showing supports, field splices, bridging attachments and nonstandard joist profiles.
 - 4. Shop Drawings shall list all applicable loads.
- B. Structural Calculations:
 - 1. The steel joist manufacturer shall submit design calculations with a cover letter bearing the seal and signature of the joist manufacturer's registered design professional licensed in California.

1.2 QUALITY ASSURANCE

- A. Fabricator Qualifications: Fabricated by a firm regularly engaged in the manufacture of the types of steel joist specified. Manufacturer to have fabricated joists for at least 2 years.
- B. Qualification of Welding Work:
 - 1. Qualify welding processes and welding operators in accordance with the AWS D1.1, Section 5 Qualification.
 - 2. All welds will be subject to visual inspection. Where visually deficient welds are observed, the welds will be tested using non-destructive methods by a certified testing laboratory. If welds are found to be satisfactory, OWNER will pay for testing. Where welds are found unacceptable or deficient, the CONTRACTOR will pay for testing. The CONTRACTOR will correct improper workmanship, remove and replace, or correct as instructed, all welds found unacceptable or deficient. The CONTRACTOR will pay for all corrections and subsequent tests required to confirm the integrity of the weld.

1.3 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle steel joists as recommended in AISC-SJI "Specifications." Handle and store joists in a manner to avoid deforming members and to avoid excessive stresses.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Steel: Comply with AISC-SJI "Specifications".
- B. Unfinished Threaded Fasteners: ASTM A307, Grade A, regular hexagon type, low carbon steel.
- C. High-Strength Threaded Fasteners: ASTM A325 or A490 heavy hexagon structural bolts with nuts and hardened washers.
- D. Surface Preparation and Shop Priming: All steel joists shall be primed in the shop. Surface preparation and shop priming are included herein, but are specified in Section 09900 - Painting.

2.2 FABRICATION

- A. General: Fabricate steel joists in accordance with AISC-SJI "Specification."
- B. Bottom Chord: Joists with bottom chords consisting of round bars will not be acceptable.
- C. Holes in Chord Members:
 - 1. Provide holes in chord members where shown for securing other Work to the steel joists.
- D. Extended Ends:
 - 1. Provide extended ends on joists where shown, complying with the manufacturer's standards and requirements of applicable AISC-SJI "Specifications" and load tables.
- E. Bridging:
 - 1. Provide horizontal or diagonal type bridging for open web joists, complying with AISC-SJI "Specifications".
- F. End Anchorage: Provide end anchorages to secure joists to adjacent construction, complying with AISC-SJI "Specifications", unless otherwise shown.

PART 3 - EXECUTION

3.1 INSPECTION

- A. The CONTRACTOR and their installer shall examine the substrate and the conditions under which Work is to be performed and notify ENGINEER, in writing, of unsatisfactory conditions. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.2 ERECTION

- A. Place and secure steel joists in accordance with AISC-SJI "Specifications," approved Shop Drawings, and as specified.
- B. Anchors: Furnish anchor bolts and other devices to be built into the concrete and masonry construction. Furnish templates for the accurate location of anchors in other

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Work. Furnish unfinished threaded fasteners for anchor bolts, unless otherwise indicated.

C. Placing Joists:

1. Do not start placement of steel joists until supporting Work is in place and secured. Place joists on supporting Work, adjust and align in accurate locations and spacing before permanently fastening.
2. Provide temporary bridging, connections, and anchors to ensure lateral stability during construction.

D. Bridging: Install bridging simultaneously with joist erection.

E. Fastening Joists:

1. Field weld joists to supporting steel framework in accordance with AISC-SJI "Specifications" for the type of joists used. Coordinate welding sequence and procedure with the placing of joists.
2. Bolt joists to supporting steel framework in accordance with AISC-SJI "Specifications" for the type of joists used.
 - a. Provide unfinished threaded fasteners for bolted connections, unless otherwise indicated.
 - b. Provide unfinished threaded fasteners for bolted connections, except where high-strength bolts or welded connections are shown.
 - c. Provide high-strength threaded fasteners for bolted connections of steel joists to steel columns, and at other locations where shown, installed in accordance with AISC, Specifications for Structural Joints Using ASTM A 325 or A 490 Bolts.

F. Touch-Up Painting: After joist installation, paint all field bolt heads and nuts, and welded areas, abraded or rusty surfaces on joists and steel supporting members. Wire brush surfaces and clean with solvent before painting. Use the same type of paint as used for shop painting.

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SECTION 05300
METAL ROOF DECKING

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings:
 - 1. Complete erection drawings showing layout and dimensions, including type and gauge of decking sections, adaptations around openings and other special conditions, method of welding or anchoring sections to supporting structural steel, procedure for attaching end closure plates and butt joint cover plates, support of openings and miscellaneous flashing.
 - 2. Manufacturer's product literature and relevant approvals for decking, welding, mechanical fasteners, and sidelap connectors.

1.2 QUALITY ASSURANCE

- A. Field Measurements: Take field measurements prior to preparation of Shop Drawings and fabrication to ensure proper fitting of the Work.
- B. Fabrication and erection shall be in accordance with the current edition of the Steel Deck Institute "Code of Standard Practice". Steel decking shall be delivered, stored, handled and installed in such a manner that it will not be damaged or deformed.
- C. Qualification of Welding Work:
 - 1. Qualify welding processes and welding operators in accordance with AWS D1.1, Section 5 - Qualification.
 - 2. Decking welded in place is subject to inspection and testing. Expense of removing and replacing any portion of decking for testing purposes will be borne by the Owner if welds are found to be satisfactory; otherwise the CONTRACTOR shall pay all costs involved. Remove Work found to be defective and provide new acceptable Work.

1.3 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Transport, store and erect metal decking and accessories in a manner that will prevent corrosion, deformation or other damage. Store decking clear of the ground with one end elevated to promote drainage. Protect metal deck from water and the elements with a water resistant material.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Deck sections and attachments shall be as shown on the Drawings. Decking having cross-sectional properties, which differ from the indicated, may be used provided that the structural properties of the proposed decking are equal to or greater than, the structural properties of the decking indicated.

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- B. Decking, where indicated, shall have sheet lengths that cover three or more spans wherever practicable.
- C. Galvanized Steel Sheet Decking: ASTM A653. The steel shall receive a protective metal coating of zinc conforming to ASTM A653, with a minimum of 0.6-ounce zinc per square foot, G-90. The decking shall be 18-gauge, unless otherwise shown on the Drawings.
 - 1. Product and Manufacturer: Provide one of the following:
 - a. Vulcraft.
 - b. Verco Manufacturing.
 - c. ASC Steel Deck.
 - d. Or approved equal.
- D. Accessories shall be formed of the same material as used for the steel deck.
- E. Miscellaneous Steel Shapes: ASTM A36.
- F. Mechanical Fasteners (power actuated):
 - 1. Product and Manufacturer: Provide one of the following:
 - a. Hilti, Inc.
 - b. Or approved equal.
- G. Sidelap Connectors:
 - 1. Product and Manufacturer: Provide one of the following:
 - a. Hilti, Inc.
 - b. Elco Textron.
 - c. Or approved equal.
- H. Galvanizing Repair Paint: Any galvanized surface which has the coating removed for any cause shall be touched up with a zinc-rich cold galvanizing compound so that the entire repair surface has a uniform coating of 1.0 ounces of zinc per square foot.

2.2 FABRICATION

- A. Manufacture deck units to lengths as indicated on the shop drawings. Panel end conditions are to be end-lapped 2-inches minimum. Sidelaps are to be nestable or interlocking when using screw-type fasteners.

PART 3 - EXECUTION

3.1 INSPECTION

- A. The CONTRACTOR shall examine conditions under which decking is to be installed and notify Engineer, in writing, of any unsatisfactory condition existing or whenever design of decking and connection may not be clearly indicated. Do not proceed with the Work until unsatisfactory conditions or deficiencies have been corrected in a manner acceptable to Engineer.

3.2 WORKMANSHIP

- A. Decking shall be installed in accordance with the manufacturer's requirements and approved erection layout drawing.

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- B. Steel decking shall be provided complete, including all cutting, shaping, fitting, drilling, welding, ridge plates, valley plates, reinforcing plates for all openings in the deck and miscellaneous pieces necessary for proper installation and weathertight construction.
- C. The steel deck units shall be placed on the supporting framework, aligned, and adjusted to final position before being permanently fastened.
- D. If the supporting beams are not properly aligned or sufficiently level to permit proper bearing of steel units, The CONTRACTOR shall take corrective action to ensure properly aligned Work.
- E. Special care shall be exercised not to damage or overload the decking during installation. The maximum uniform distributed load shall not exceed 20 psf. The decking shall not be used for storage or as a working platform until the sheets have been welded into position.
- F. The decking sheet shall be formed at the longitudinal sides in such a manner that they will overlap and interlock. All interlocking seams shall be welded as specified on the Drawings, with 1 ½-inch long side seam welds.
- G. End laps shall be a minimum of 2-inches and shall occur over bearings only.
- H. The steel decking shall provide a continuous uniform slope, with practically flush top surfaces, and shall be installed in straight and continuous rows, as far as practicable, with ribs at right angles to the supporting members.
- I. All sheets shall be 36-inch wide. Narrower closure strips shall be welded to adjacent full sheet with 1 ½-inch long seam welds at 12-inch on center.
- J. Flashing: Provide zinc coated continuous flashing for deck units at openings and at deck perimeters, if necessary.
- K. Connection Plates: Provide 14-gauge galvanized bent plate sections as shown or required over perimeter and interior framing to allow specified welding to parallel supports.
- L. After erection, all damaged surfaces shall be primed with a zinc dust type primer paint.
- M. After erection, all surfaces shall be cleaned and left free of all grime and dirt.

3.3 ATTACHMENT

- A. Steel deck units shall be fastened to steel framework as shown on the Drawings. Welds shall be free of sharp points or edges. All welds shall be cleaned immediately, by chipping or wire brushing, and shall be coated with a zinc dust type primer paint.
- B. Welding shall conform to the applicable requirements of the AISC "Light Gauge Steel Design" and all welding shall be done by qualified welders. Welder qualifications shall be in accordance with AWS Specification B3.0, "Standard Qualification Procedures."
- C. Decking sheets fastened to framing with proprietary mechanical connections or screws shall be installed in accordance with the manufacturer's recommendations and ICC report.

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+ + END OF SECTION + +

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SECTION 05500

MISCELLANEOUS METALS

PART 1 - GENERAL

1.1 SUMMARY

- A. Work necessary to furnish and install, complete, fabricated metalwork and castings as shown or as required to secure various parts together and provide a complete installation.

1.2 SUBMITTALS

- A. Shop Drawings: Submit Shop Drawings for the fabrication and erection of the miscellaneous metal Work. Include plans, elevations and details of sections and connections. Clearly show all field connections. Show anchorage and accessory items.
- B. Product Data: Submit copies of manufacturer's specifications, load tables, dimensions, diagrams, anchor details, and installation instructions for manufactured products.
- C. Samples: Submit representative samples of manufactured products.

1.3 QUALITY ASSURANCE

- A. Field Measurements: Take field measurements prior to preparation of Shop Drawings and fabrication to ensure proper fitting of the Work.
- B. Shop Assembly: Preassemble items in the shop to the greatest extent possible, so as to minimize field splicing and assembly of units at the project site. Disassemble units to the extent necessary for shipping limitations. Clearly mark units for reassembly and coordinated installation.
- C. Qualifications: Qualify welding operators in accordance with requirements of current AWS Standard Performance Qualification Procedures in the applicable structural welding code.
 - 1. Qualification Tests: Performed by a recognized testing laboratory.
- D. Certification: Certify welders of structural and reinforcing steel for all positions of welding in accordance with such procedure.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Like Items of Materials: Provide end products of one manufacturer in order to achieve standardization for appearance, operation, maintenance, replacement, and manufacturer's service.
- B. Lifting Lugs: Provide on equipment and equipment components weighing over 100 pounds.
- C. Furnish miscellaneous items:

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1. Miscellaneous metalwork and castings as shown, or as required to secure various parts together and provide a complete installation.
2. Items specified herein are not intended to be all-inclusive. Provide metalwork and castings shown, specified, or which can reasonably be inferred as necessary to complete the project.

2.2 MATERIALS

- A. Carbon steel structural shapes:
 1. Wide flange sections: ASTM A992 Grade 50.
 2. Steel pipe columns: ASTM A53 Grade B.
 3. Hollow Structural Sections (HSS): ASTM A500 Grade B.
 4. Plates, Angles, Channels, and S Shapes: ASTM A36.
- B. Stainless Steel:
 1. Plates and Sheets: ASTM A240, Type 304L or 316
 2. Structural shapes: ASTM A276 or A479, Type 304L or 316.
 3. Fasteners and fittings: ASTM A320, Type 316
 - a. Where stainless steel bolts are in contact with dissimilar metals provide insulating sleeves and phenolic washers to electrically isolate the bolts and nuts.
- C. Aluminum, Structural Shapes and Plates: Alloy 6061-T6, meeting Aluminum Assoc. Specification for Aluminum Structures
- D. Cast Iron: A48, Class 30
- E. Light Gauge Steel Framing:
 1. Manufactured by SSMA ICC ESR-3064P, or equivalent, to meet the requirements of AISI S100.
 2. ASTM A570 or A446 with a minimum yield strength of 33 ksi for 18 gauge and 20 gauge, 50 ksi for 14 gauge and 16 gauge.
 3. Framing members shall have the section properties as listed on the Drawings.
- F. High-Strength Threaded Fasteners: Heavy hexagonal structural bolts, heavy hexagon nuts, and hardened washers, as follows:
 1. Quenched and tempered medium carbon steel bolts, nuts and washers, complying with ASTM A325 or:
 2. Quenched and tempered alloy steel bolts, nuts and washers, complying with ASTM A490.
 3. Provide two ASTM F436 washers for all bolts.
 4. Provide beveled washers at connections of sloped/tapered sections.
 5. Unless noted otherwise, high-strength fasteners shall be used for all non-stainless steel fasteners.
- G. Cast-in-Place Anchor Rods:
 1. ASTM F1554, Grade 36 with weldability supplement S1, galvanized, unless shown otherwise.
 2. Provide ASTM F436 washers at all nuts unless shown otherwise.
 3. Provide anchor bolt sleeves as required or as shown for location adjustment.
 4. Provide stainless steel anchors where shown on the Drawings or listed in another specific specification section.
- H. Galvanizing:
 1. Zinc coated hardware: ASTM A153.

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2. Fabrications: ASTM A123.

I. Surface preparation and Finish:

1. Steel: Where not indicated to be galvanized, steel shall be primed in the shop. Comply with Section 09900, Painting.

2.3 ANCHOR BOLT SLEEVE

A. High Density Polyethylene Plastic:

1. Single unit construction with deformed sidewalls such that the concrete and grout lock in place.
2. The top of the sleeve shall be self-threading to provide adjustment of the threaded anchor bolt projection.
3. Material requirements shall conform to the following:
 - a. Plastic: High density polyethylene.
 - b. Density: 0.956, ASTM D1505.
 - c. Vicant Softening Point: 256°F, ASTM D1525
 - d. Brittleness Temperature: -180°F, ASTM D746

B. Fabricated Steel Sleeve:

1. Material: A36 steel.
2. Dimensions, welding, and sizes as shown.

2.4 FABRICATIONS

A. Miscellaneous Framings and Supports:

1. Fabricate units to the sizes, shapes, and profiles shown, or if not shown, of the required dimensions to receive the adjacent gratings, plates, tanks, doors, or other work to be retained by the framing.
2. Except as otherwise shown, fabricate from structural shapes, plates, and bars of compatible material, all-welded construction, using mitered corners, welded brackets and splice plates, and a minimum number of joints for field connection. Cut, drill, and tap units to receive hardware and other items to be anchored to the work.
3. Equip units with integrally welded anchors for casting into concrete or integrating into masonry. Furnish inserts for casting in, if units must be installed after concrete or grout is placed. Anchor spacing shall be 24" on-center, unless otherwise shown.
4. Galvanize where shown.

B. Miscellaneous Fabricated Metals:

1. The following additional items are listed as a guide. Some items on list may not be required, and list may not be all-inclusive. Submittal data for materials and products must be approved before they are incorporated in the work.
 - a. Float Switch Supports
 - b. Lifting Eyes.
 - c. Pipe Supports.
 - d. Steel Bases and Anchors.

C. Stainless Steel Fabrication: Following welding fabrication all stainless steel assemblies shall be cleaned, descaled and passivated in accordance with ASTM A380.

D. Anchors, Fasteners, and Fittings: Provide zinc-coated carbon steel for steel fabrications, and stainless steel for aluminum and stainless steel fabrications, unless shown otherwise.

E. Pipe Sleeves

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1. Provide as follows:
 - a. Hot-dip galvanized, Schedule 40 steel pipe sleeves where shown for piping passing through concrete or masonry.
 - b. Holes drilled with rotary drill may be provided in lieu of sleeves in existing walls.
 - c. Provide a center flange for water stoppage on sleeves in exterior or water-bearing walls.
 - d. Provide a rubber caulking sealant or a modular mechanical unit to form a watertight seal in the annular space between pipes and sleeves.

PART 3 - EXECUTION

3.1 FABRICATION

A. General:

1. Exposed Surfaces Finish: Smooth, sharp, well-defined lines.
2. Provide necessary rabbets, lugs, and brackets so work can be assembled in neat, substantial manner.
3. Conceal fastenings where practical.
4. Drill metalwork and countersink holes as required for attaching hardware or other materials.
5. Fabricate materials as specified.
6. Weld connections, except where bolting is directed.
7. Methods of fabrication not otherwise specified or shown shall be adequate for stress and as approved.
8. Grind exposed edges of welds smooth on walkways, guardrails, handrails, stairways, channel door frames, steel column bases and where shown.
9. Round sharp edges to 1/8-inch minimum radius. Grind burrs, jagged edges, and surface defects smooth.

B. Aluminum:

1. Fabricate as shown, and in accordance with the Aluminum Association Standards and manufacturer's recommendations as approved.
2. Grind smooth sheared edges exposed in finished work.

3.2 WELDING

A. General

1. Meet codes for Arc and Gas Welding in Building Construction of the AWS and AISC for techniques of welding employed, appearance, quality of welds made, and the methods of correcting defective work.
2. Welding Surfaces: Free from loose scale, rust, grease, paint, and other foreign material, except mill scale which will withstand vigorous wire brushing may remain.
3. A light film of linseed oil may likewise be disregarded.
4. Do not weld when temperature of base metal is lower than zero degrees F.
5. Finished members shall be true to line and free from twists.
6. Prepare welds and adjacent areas such that there is:
 - a. No undercutting or reverse ridges on the weld bead.
 - b. No weld spatter on or adjacent to the weld or any other area to be painted.
 - c. No sharp peaks or ridges along the weld bead.
7. Grind embedded pieces of electrode or wire flush with adjacent surface of weld bead.

B. Welding Operators: As specified in PART 1, Article 1.3 QUALITY ASSURANCE.

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3.3 INSTALLATION

- A. Set units accurately in location, alignment, and elevation, level, plumb, true, and square, measured from established lines and levels. Brace or anchor temporarily in formwork where units are to be built into concrete, masonry, or similar construction.
- B. Anchor securely as shown or as required for the intended use, using concealed anchors wherever possible.
- C. Fit exposed edges accurately together to form tight, hairline joints. Do not weld, cut, or abrade the surfaces of galvanized or anodized units which are intended for bolted or screwed connections.
- D. Field Welding: Where field welding is necessary, grind joints smooth and touch-up the shop paint. Comply with the applicable provisions of AWS D1.1 for the procedures of manual shielded metal-arc welding, the appearance and quality of welds made, and the methods used in correcting welding.
- E. Field Coat all miscellaneous ferrous and steel metals per Specification Section 09900 - Painting, System 300.
- F. Where aluminum is in contact with dissimilar metals, or embedded in masonry or concrete, protect surfaces as specified in Section 09900 - Painting, System 305.

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SECTION 05610

ALUMINUM HANDRAILS AND RAILINGS

PART 1 - GENERAL

1.1 SCOPE

- A. This section covers the supply and installation of welded or non-welded mechanical construction aluminum handrails and guardrails.

1.2 SUBMITTALS

- A. Shop Drawings: Submit Shop Drawings for the fabrication and erection of the handrails and guardrails. Include plans, elevations and details of sections and connections. Clearly show all field connections. Show anchorage and accessory items.
- B. Product Data: Submit copies of manufacturer's specifications, dimensions, anchor details, and installation instructions for manufactured products.

1.3 QUALITY ASSURANCE

- A. Reference Standards:
 - 1. Aluminum Associate (AA)
 - a. Aluminum Standards and Data
 - b. Specifications for Aluminum Structures
- B. Design Criteria:
 - 1. Fabricate units to support a live load of 20 pounds per linear foot and a non-concurrent load of 200 pounds at the top of the railing, in any direction.
 - 2. Expansion/Contraction:
 - a. Provide linear expansion joints at a maximum spacing of 20'-0" designed for 1/4" expansion and 1/4" contraction.
 - b. Provide expansion joints in handrail and railing systems where systems cross expansion joints in structure.
- C. Allowable Tolerances:
 - 1. Limit variation of cast-in-place inserts, sleeves and field-drilled anchor and fastener holes to the following:
 - a. Spacing: $\pm 3/8$ -inch.
 - b. Alignment: $\pm 1/4$ -inch.
 - c. Plumbness: $\pm 1/8$ -inch.
 - 2. Minimum Handrails and Railings Systems Plumb Criteria:
 - a. Limit variation of completed handrail and railing system alignment to 1/4-inch in 12' - 0" with posts set plumb to within 1/16-inch in 3 foot - 0 inches.
 - b. Align rails so variations from level for horizontal members and from parallel with rake of stairs and ramps for sloping members do not exceed 1/4-inch in 12' - 0 inches.
- D. Obtain all handrails and railings systems components and accessories from the same manufacturer.

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1.4 DELIVERY, STORAGE AND HANDLING

- A. Protect aluminum work from abuse, staining, or damage during shipment, storage, erection and installation.
- B. Store in a manner to prevent warping of materials.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Fabricate aluminum to conform to AA standards.
- B. Handrails and railings may be either of welded construction, or non-welded mechanical construction.

2.2 MANUFACTURERS AND PRODUCTS

- A. Golden Railings, Inc.; TCF Bolted System.
- B. Superior Aluminum Products; Series 800 Pipe Railing.
- C. Or Equal.

2.3 MATERIALS

- A. Rails and Posts:
 - 1. Conform to ASTM B221.
 - 2. 1-1/2" nominal diameter, minimum
 - 3. Provide Schedule 40 pipe minimum for rails and Schedule 80 pipe minimum for posts, unless conditions of detail and fabrication require heavier pipe weights to comply with performance criteria specified.
 - 4. All rail, posts and components shall be Aluminum Alloy 6005-T5 or 6063-T6
 - 5. Clear satin anodized finish, 0.7 mil minimum (AA-M10-C22-A41).
- B. Fittings and Accessories:
 - 1. Either weld rail and post components, or provide mechanical fittings to join rail and post components using bolted connections.
 - 2. Provide floor flanges where indicated
 - 3. Provide wall brackets with 3-inch minimum clearance between handrail and finished wall surface and as indicated for ladder rails.
 - 4. Fasteners and anchors shall be Type 304 stainless steel and of type as required by substrate
- C. Toeboard (Kick Plate):
 - 1. Extruded, beveled aluminum 4-inch height, aluminum alloy 6063-T6.
 - 2. Furnish required stainless steel clamps and fasteners for complete installation.
 - 3. Manufacturer/Product:
 - a. Crane Veyor Corp., Toeboard No. C43880 with splice plates and corner connectors.
 - b. Or Equal.

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- D. Weep Holes:
1. Fabricate joints, which will be exposed to the weather so as to exclude water.
 2. Provide 15/64-inch diameter weep holes at the lowest possible point on all handrail and railing systems posts.
 3. Provide pressure relief holes at closed ends of handrail and railing systems.

PART 3 - EXECUTION

3.1 GENERAL

- A. Conform to applicable AA standards.
- B. At locations where welds will be made (if applicable), the anodizing shall be ground off to ensure a proper weld is made. The weld shall then be ground smooth and burn marks removed. Completed welds shall be painted to match the anodizing of the pipe.
- C. Bituminous Coating:
1. Protect aluminum in contact with other metals, grout and concrete by a heavy brush coat of alkali-resistant bituminous coating or a non-porous tape or gasket.
 2. Coating is not required for aluminum in contact with stainless steel bolts.
 3. Apply bituminous coating at 15-mil minimum dry film thickness.
 4. Manufacturer/Product:
 - a. Carboline – Bitumastic No. 50
 - b. Tnemec – Series 46-465
 - c. Or Equal.

3.2 INSTALLATION

- A. Space posts at a maximum of 6'-0" on center, except when a different spacing is indicated on the Drawings.
- B. Install toe boards (kick plates) and anchor to each post with clamps and bolts. Allow 1/4-inch space between bottom of toe board and top of floor surface.
- C. Install handrail to walls with brackets spaced not greater than 5'-0" on center, except where otherwise indicated.
1. For connecting to concrete walls, use anchors as indicated.
 2. For connecting to hollow masonry walls, use toggle bolts having square heads.
- D. Cleaning: Clean all aluminum surfaces, after installation, free of smudges, stains, or other deleterious substances.
- E. Protect aluminum, after cleaning, with clear methacrylate lacquer coating.

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SECTION 05620

GRATING AND CHECKERED PLATE

PART 1 - GENERAL

1.1 SCOPE

- A. Furnish all materials, labor and equipment required to provide all gratings and floor plates in accordance with the Contract Documents.

1.2 SUBMITTALS

- A. Shop Drawings: Submit Shop Drawings for the fabrication and erection of all gratings and checkered plate specified herein. Include plans, elevations and details of sections and connections.
- B. Setting drawings and templates for location and installation of anchorage devices.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Grating, including support frames, fastenings and all necessary appurtenances for a complete installation shall be furnished as indicated on the Drawings.
- B. All exposed bearing ends of grating shall be enclosed in a perimeter band of the same dimensions and material as the main bars, including ends at all cutouts.
- C. Grating shall be fabricated into easily removable sections and shall be fastened at each corner and as required with fasteners provided by the grating manufacturer. No fasteners shall be permitted to project above the walking surface.
- D. Grating and Checkered Plate shall be designed for a loading of 150 psf, with a maximum deflection of L/360, unless otherwise required by the Drawings.
- E. Minimum grating depth shall be as shown on the drawings. Space bearing bars at 1-3/16 inch center to center. Band all edges with minimum 3/16 inch thick banding bar.
- F. Openings in Grating:
 - 1. Cut gratings for penetrations as indicated and as required for installing and operating equipment. Layout grating units to allow grating removal without disturbing items penetrating grating.
 - 2. At openings, notches, and cuts in grating, provide banding of same material and size as bearing bars, unless otherwise indicated. Weld band to each bearing bar.
- G. Notching of bearing bars at supports to maintain elevations will not be permitted.

2.2 ALUMINUM GRATING

- A. I-bar type consisting of extruded bearing bars positioned and locked by cross bars.

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- B. Material:
 - 1. All supports, cross members, etc. shall be aluminum.
 - 2. Bearing Bars: Alloy 6061-T6 or Alloy 6063-T6, conforming to ASTM B221
 - 3. Cross Bars or Bent Connecting Bars: Alloy conforming to either ASTM B221 or ASTM B210.
- C. Plank clips for grating hold-downs or other required attachments shall be aluminum or Type 304 stainless steel.
- D. Bolts shall be stainless steel Type 316. Where stainless steel bolts are in contact with dissimilar metals provide insulating sleeves and phenolic washers to electrically isolate the bolts and nuts.
- E. Manufacturer/Product:
 - 1. Grating Pacific, "I-Bar 19-SG-4"
 - 2. Borden Grating, "Squeeze Locked Grating"
 - 3. Ohio Grating, "I-Bar 19-SG-4"
 - 4. Or Equal.

2.3 HEAVY DUTY GALVANIZED STEEL GRATING

- A. Welded rectangular design (spaced approximately 1-3/16 x 4 inches on center) designed to support heavy rolling and static loads.
- B. Grating Size and Design:
 - 1. Main bearing bars thickness and depth as indicated on the Drawings.
 - 2. Cross bars to be 5/16" twisted steel and resistance welded at right angles to the main bars, unless noted otherwise on the Drawings.
 - 3. Band all open ends.
 - 4. Hot dip galvanize after fabrication.
- C. Material:
 - 1. Galvanized steel: ASTM A36, hot dipped galvanized per ASTM A123 after fabrication
- D. Manufacturer/Product:
 - 1. Grating Pacific W-19-4
 - 2. Ohio Grating 19-W-4
 - 3. Or Equal.

2.4 CHECKERED PLATE

- A. Minimum thickness: As shown on the drawings
- B. Material:
 - 1. Plate to conform to ASTM B209 with anodized finish.
 - 2. Stainless steel support angles: Type 316 unless otherwise shown.
- C. Raised Pattern Floor Plate: Provide pattern standard with the manufacturer to provide non-slip surface.
- D. Plates shall be stiffened by angles welded to the underside as shown on the drawings.
- E. Lifting Handles:

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1. Each checkered plate shall be provided with four lifting handles, as shown on the drawings.
- F. Maximum weight of each checkered plate shall be 150 pounds.

PART 3 - EXECUTION

3.1 FABRICATION

- A. All measurements and dimensions shall be based on field conditions and shall be verified by the CONTRACTOR prior to fabrication. Such verification shall include coordination with adjacent work.
- B. All fabricated work shall be shop-fitted together as much as practicable, and delivered to the field, complete and ready for installation. All miscellaneous items such as stiffeners, fillets, connections, brackets and other details necessary for a complete installation shall be provided.
- C. All work shall be fabricated and installed in a manner that will provide for expansion and contraction, prevent shearing of bolts, screws, and other fastenings, ensure rigidity, and provide a close fit of sections.
- D. Finished members shall conform to the lines, angles and curves shown on the Drawings and shall be free from distortions of any kind.
- E. All shearings shall be neat and accurate, with parts exposed to view neatly finished. Flame cutting is allowed only when performed utilizing a machine.
- F. All shop connections shall be welded unless otherwise indicated on the Drawings or specified herein. All fastenings shall be concealed where practicable.

3.2 INSTALLATION

- A. Assembly and installation of fabricated system components shall be performed in strict accordance with manufacturer's recommendations.
- B. All gratings shall be erected square, plumb and true, accurately fitted, adequately anchored in place, and set a proper elevations and positions.

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SECTION 07200
ROOF INSULATION

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section specifies requirements for building insulation for roofs and associated accessories to result in complete assemblies.

1.2 SUBMITTALS

- A. Shop Drawings:
1. Manufacturer's specifications and installation instructions for type of insulation required. Include data substantiating that the materials comply with specified requirements.
 2. Complete layout of all roof insulation showing sizes, placement and number of courses.
 3. Manufacturer's specifications and installation instructions showing the sizes and layout of the mechanical fasteners.

1.3 DELIVERY, HANDLING, AND STORAGE

- A. Package and protect during shipment.
- B. Inspect for damage, dampness, and wet storage stains upon delivery to the Work site.
- C. Remove and replace damaged or permanently stained materials that cannot be restored to like-new condition.
- D. Carefully handle to avoid damage to surfaces, edges, and ends.
- E. Do not open packages until ready for use.
- F. Store materials in dry, weathertight, ventilated areas until immediately prior to installation.

1.4 COORDINATION WITH OTHER ROOFING SYSTEM COMPONENTS

- A. Roof insulation shall be part of a coordinated, complete roof system which includes the roofing system and all other roofing system components.
- B. Roof insulation manufacturer shall certify that the roof insulation provided is completely compatible with the roofing system specified and all other roofing system components.

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PART 2 - PRODUCTS

2.1 EXTRUDED POLYSTYRENE RIGID ROOF INSULATION

- A. Composed of extruded polystyrene (XPS) and water-resistant binders formed into rigid, non-combustible boards specifically designed for roofing applications with installation directly on structural steel decks beneath a sheet membrane or a standing seam metal roof.
- B. Size: 48-inches by 96-inches.
- C. Thickness:
 - 1. Base Layer: Thickness as shown in the Drawings.
 - 2. Tapered Top Layer: Varies to provide drainage.
- D. Provide the following physical properties:
 - 1. Thermal Resistance, R-Value, ASTM C518: 5.0 hr*ft²*°F/BTU/in.
 - 2. Water Vapor Permeance, ASTM E96: 1.5 maximum perm.
 - 3. Compressive Strength, ASTM D1621: 25 psi.
- E. Provide tapered and non-tapered boards as required to produce a minimum slope to drain of 1/4-inch per foot.
- F. Provide custom pre-cut factory-formed corners, crickets, hips and valleys.
- G. Product and Manufacturer: Provide one of the following:
 - 1. STYROFOAM Brand DECKMATE Plus, by Dow Building Solutions.
 - 2. THERMAPINK 25 by Owens-Corning Fiberglass Corporation.
 - 3. Or equal.

2.2 ROOF INSULATION COVER BOARD

- A. Fiberglass-mat faced roof cover boards.
- B. Provide the following physical properties:
 - 1. Size: 48-inches by 96-inches, 1/2-inch thick
 - 2. Weight: 1.95 psf
 - 3. Water Adsorption, ASTM C1177: < 10%
 - 4. Compressive Strength, ASTM C472: 900 psi
- C. Product and Manufacturer: Provide one of the following:
 - 1. DensDeck Prime by Georgia-Pacific
 - 2. SecurRock by USG
 - 3. Or approved equal

2.3 MISCELLANEOUS MATERIALS:

- A. Mechanical Fasteners: Screw-type 6-gauge minimum self-drilling galvanized steel with sufficient length and quantity to securely anchor system into place and to withstand all super-imposed loads. Provide 1 1/2" diameter disc washers.
- B. Joint Tape: 6-inch wide glass fiber tape.

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PART 3 - EXECUTION

3.1 SEQUENCING

- A. Proceed with and complete the Work only when materials, equipment and tradesmen required for the installation of the roofing membrane over the roof insulation are at the site and are ready to follow with this Work immediately (same day) behind the roof insulation Work.
- B. Do not install any more roof insulation each day than can be covered with complete elastic sheet roofing system by the end of that working day.

3.2 INSPECTION

- A. CONTRACTOR and his installer shall examine the substrate and the conditions under which the insulation Work is to be performed, and notify ENGINEER, in writing, of any unsatisfactory conditions. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.3 INSTALLATION

- A. General:
 - 1. Tapered glass fiber board roof insulation system shall be designed and totally precut at the factory.
 - 2. Comply with manufacturer's instructions for the particular conditions of installation in each case. If printed instructions are not available or do not apply to the project conditions, consult the manufacturer's technical representative for specific recommendations before proceeding with the Work.
 - 3. Where skylight or other roof openings are required, provide crickets shaped from tapered glass fiber board to direct roof drainage around opening and too roof drain.
 - 4. Extend roof insulations full thickness, as shown and specified, over entire surface to be insulated.
 - 5. Cut and fit roof insulation Work tightly around obstructions, and fill voids with insulation. Keep back 1/4-inch for all vertical flashings.
- B. Laying Roof Insulation Units:
 - 1. Apply rigid glass fiber board roof insulation to the thickness shown in the Drawings. Provide tapered rigid board roof insulation at crickets and sloped areas shown to provide 1/4-inch per foot positive slope to drains.
 - 2. Mechanically fasten insulation boards to substrate at the UL required spacing.
 - 3. Stagger end joints and stagger joints between courses where two or more courses are used.
 - 4. Lay insulation boards with edge in moderate contact without forcing.

3.4 PERFORMANCE

- A. Roof insulation Work shall withstand the uplift forces of wind, as defined by the Roofing System Guarantee. Refer to the roofing system specification. Failures of the roof insulation Work, or within the insulation, shall be considered failures of materials or workmanship under the Roofing System Guarantee.

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**SECTION 07211
BUILDING INSULATION**

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

1. CONTRACTOR shall provide all labor, materials, tools, equipment and incidentals as shown, specified and required to furnish and install all building insulation.
2. Extent of each type of building insulation is shown.
3. Types of products required include the following:
 - a. Glass fiber batt insulation.
 - b. Miscellaneous materials and accessories.

B. Coordination:

1. Review installation procedures under other Sections and coordinate the installation of items that must be installed with the building insulations.
2. Notify other contractors in advance of the installation of the building insulations to provide other contractors with sufficient time for the installation of items included in their contracts that must be installed before the building insulations.

1.2 QUALITY ASSURANCE

A. Manufacturer/Installer Qualifications:

1. Engage single installers for each type of building insulation who are skilled, trained and have a record of successful experience in the application of each product and who have a successful record of performing work in accordance with the recommendations and requirements of the manufacturer or who can submit evidence in writing of being acceptable to the manufacturer for production of guaranteed construction and who agree to employ only tradesmen with specific skill and successful experience in each type of Work.

B. Source Quality Control:

1. Obtain building insulations, requiring a hydrochlorofluorocarbon blowing agent, from manufacturers who manufacture specified insulation using a blowing agent acceptable for use until the year 2020 complying with the requirements of the Copenhagen Amendments to the Montreal Protocol in all ways.

C. Performance Criteria:

1. Thermal Conductivity: The thicknesses shown are for the thermal conductivity, k-value at 75 F, specified for each material.
2. Provide adjusted thicknesses, based on thicknesses shown or specified for building insulations, as required to comply with required thermal resistances for use of material having a different thermal conductivity.

- D. Requirements of Regulatory Agencies: Comply with fire-resistance and flammability ratings as shown and specified; and comply with code interpretations by governing authorities.
- E. Reference Standards: Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified:
1. ASTM C 165, Measuring Compressive Properties of Thermal Insulations, Test Method for.
 2. ASTM C 177, Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus, Standard Test Methods for.
 3. ASTM C 203, Breaking Load and Flexural Properties of Block-Type Thermal Insulation, Test Method for.
 4. ASTM C 236, Steady-State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box, Standard Test Method for.
 5. ASTM C 272, Water Absorption of Core Materials for Structural Sandwich Constructions, Standard Test Method for.
 6. ASTM C 303, Dimensions and Density of Preformed Block-Type Thermal Insulation, Standard Test Method for.
 7. ASTM C 518, Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of Heat Flow Meter Apparatus, Standard Test Method for.
 8. ASTM C 520, Density of Granular Loose Fill Insulations, Standard Test Method for.
 9. ASTM C 531, Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Monolithic Surfacing, and Polymer Concrete, Standard Test Method for.
 10. ASTM C 549, Perlite Loose Fill Insulation, Standard Specification for.
 11. ASTM C 553, Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications, Specification for.
 12. ASTM C 578, Rigid, Cellular Polystyrene Thermal Insulation, Standard Specification for.
 13. ASTM C 612, Mineral Fiber Block and Board Thermal Insulation, Specification for.
 14. ASTM C 665, Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing, Standard Specification for.
 15. ASTM C 764, Mineral Fiber Loose-Fill Thermal Insulation, Specification for.
 16. ASTM D 696, Coefficient of Linear Thermal Expansion of Plastics between -30 Degrees C and 30 Degrees C, Standard Test Method for.
 17. ASTM D 1621, Compressive Properties of Rigid Cellular Plastics, Standard Test Method for.
 18. ASTM D 1622, Apparent Density of Rigid Cellular Plastics, Standard Test Method for.
 19. ASTM D 2126, Response of Rigid Cellular Plastics to Thermal and Humid Aging, Standard Test Method for.
 20. ASTM D 2842, Water Absorption of Rigid Cellular Plastics, Standard Test Method for.
 21. ASTM E 84, Surface Burning Characteristics of Building Materials, Standard Test Method for.
 22. ASTM E 96, Water Vapor Transmission of Materials in Sheet Form, Standard Test Method for.

23. ASTM E 119, Standard Methods of Fire Tests of Building Construction and Materials.
24. Underwriters Laboratories, Incorporated, UL 1479, Fire Tests of Through-Penetration Firestops.

F. Codes: Comply with the applicable requirements of the 2016 California Building Code for types of building insulation work specified.

1.3 PRODUCT DELIVERY STORAGE AND HANDLING

A. Delivery of Materials:

1. Deliver building insulation products in manufacturer's original, unopened, factory-sealed containers, bearing manufacturer's name and labels, accurately representing container contents as shown on approved Shop Drawings.
2. Damaged materials shall be permanently removed from Site by CONTRACTOR.
3. Do not deliver insulation materials to the Site before the time of installation.
4. Deliver materials in sufficient quantities to allow uninterrupted continuity of the Work.

B. Storage of Materials:

1. Store materials in original, undamaged containers with manufacturer's labels and seals intact.
2. Store all materials in a dry, enclosed area, off the ground and away from all possible contact with water, ice or snow.
3. Prevent damage to materials during storage, primarily by minimizing the amount of time they are stored on-Site before being incorporated into construction systems. Store only sufficient quantity of building insulation materials on-Site as necessary for the continuous advancement of the Work without causing delay.

C. Handling of Materials:

1. Handle materials carefully in order to avoid damage and breakage or compressing of boards to less than their specified thickness, or other damage.
2. Do not open containers, or expose materials to detrimental conditions or physical damage. Materials which are so exposed shall be removed from the Site and shall not be incorporated into the Work. If incorporated into the Work they shall be removed at no additional expense to OWNER.
3. Handle materials in a manner which prevents inclusion of foreign materials.
4. Do not open packages or containers until all necessary preparatory Work is complete and installation will begin immediately.

1.4 JOB CONDITIONS

A. Protection:

1. Do not allow building insulation materials to become wet or soiled, or covered with ice or snow. Provide continuous protection of materials against damage, wetting and moisture absorption primarily by storing materials under cover and above ground and away from all other construction traffic.
2. Protect foam plastic building insulation from exposure to sunlight.
3. Do not allow building insulations to come into contact with welding operations or other fire or ignition sources.

4. Do not overload the building structure or damage in-place construction system with the weight of stored materials or use of equipment.
5. Protect materials against damage by construction activities.

B. Scheduling:

1. Proceed with building insulation Work only when preceding Work is ready to receive the Work of this Section.
2. Proceed with the building insulation and associated Work only after curbs, blocking, substrate board, nailer strips, vents, drains and other projections through the substrates have been installed, and when the substrate construction and framing of openings is complete.
3. Proceed with and complete the Work only when materials, equipment and tradesmen required for the installation of the building insulation and backfilling operations are at the Site and are ready to follow with the Work in a manner which will not leave the Work vulnerable to damage or deterioration.
4. Do not advance the installation of building insulation materials beyond that which is necessary for proper sequencing of the Work. Do not advance Work when there is no proper and secure protection from damaging weather and construction activities.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Glass Fiber Insulations: Provide the following types:

1. General: Provide insulations formed from glass fibers and resinous binders fabricated into flexible blankets, semi-rigid and rigid sheets complying with ASTM C665, ASTM C553, and ASTM C612.
2. Unfaced Batt Insulation: Provide unfaced thermal batt insulation complying with ASTM C665, Type I.
 - a. Physical Properties.
 - 1) R-value, ASTM C518: Reference Drawings. If not specified on the Drawings, provide the maximum R-value corresponding to the framing member thickness.
 - 2) Density, provide standard density unless high-density is required to achieve the specified R-value.
 - b. Thickness: Match the framing thickness shown on the Drawings.
 - c. Width: 16-inches, or as required based on framing member spacing.
 - d. Product and Manufacturer: Provide one of the following:
 - 1) Thermal Batt Insulation by Owens-Corning Fiberglas Corporation.
 - 2) Thermal Batt Insulation by CertainTeed.
 - 3) Thermal Batt Insulation by Johns Manville.
 - 4) Or equal.

B. Miscellaneous Materials and Accessories: Provide the following:

1. Mechanical Anchors: Type and size shown or, if not shown, as recommended by the insulation manufacturer for the type of application shown and condition of substrate.
2. Adhesive Tapes: Complete selection of insulation manufacturer's recommended taping materials.

PART 3 - EXECUTION

3.1 INSPECTION

- A. CONTRACTOR and his installer shall examine the substrate and the conditions under which the building insulation Work is to be performed, and notify ENGINEER in writing of unsatisfactory conditions. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.2 SUBSTRATE PREPARATION

- A. Verify that surfaces to receive building insulation are clean of all debris, dirt and other contamination before installation begins in any area.

3.3 INSTALLATION

- A. General:
 - 1. Comply with manufacturer's instructions for the particular conditions of installation in each case. If printed instructions are not available or do not apply to Site conditions, submit to ENGINEER specific recommendations from manufacturer for approval before proceeding with the Work.
 - 2. Extend all insulations full thickness over entire surface to be insulated. Cut and fit tightly around obstructions, and fill voids with insulation.
 - 3. Apply the number of layers of insulation specified, each of the required thickness, or the required thickness to provide the thermal value indicated, unless otherwise shown or required, to make up the total thickness.
- B. Batt-Type Insulation:
 - 1. Install batt insulation above ceilings and between studs and rafters as shown. Extend insulation full width, length and height in all areas shown.
 - 2. Fit tightly around obstructions to form a uniform insulated barrier.

3.4 PROTECTION

- A. All components of the Work shall be protected from detrimental weather conditions and until construction operations including, but not limited to, backfilling, framing and sheathing, aluminum siding and concrete unit masonry Work, is completed and acceptable to ENGINEER.
- B. Work which cannot for reasons acceptable to ENGINEER be covered with complete construction system before onset of weather detrimental to the Work, shall be completely covered and protected in such a manner as to deflect precipitation from the installation without damaging adjacent Work.
- C. Protect building insulations from all damage and abuse from all other contractors and installers involved on the Site until final acceptance by OWNER.

3.5 FIELD QUALITY CONTROL

- A. Submit results of all testing to ENGINEER along with recommendations for remedial Work. Do not delay job progress. Coordinate the submission of tests

and remedial Work in a manner which does not impact the acceptability of substrate and which permits expeditious completion of finishing Work.

3.6 ADJUSTMENT AND CLEANING

- A. System components which are dislodged, damaged, expanded, broken, penetrated, or crushed by subsequent installation operations or damaged by detrimental weather shall be immediately replaced with undamaged material in compliance with the Specifications and properly protected as specified.
- B. Only the original installer shall repair or replace deteriorated or defective Work.

3.7 INSPECTION AND ACCEPTANCE

- A. Do not allow construction traffic which is not associated with the installation of building insulation in the area of Work. Protect the area from access by other installers and contractors until the Work of this Section has been incorporated into finished construction systems.
- B. Building insulations which have become wet, damaged, or deteriorated shall be promptly removed from the Site and replaced with materials meeting the requirements of this Specification.

+ + END OF SECTION + +

SECTION 07320

STANDING SEAM METAL ROOF

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: This Section applies to design, manufacture and installation of standing seam metal roof paneling, soffit panels and associated materials.

1.2 QUALITY ASSURANCE

A. References

1. American Society for Testing and Materials (ASTM)
 - a. ASTM A653: Steel Sheet, Zinc-Coated by the Hot Dip Process
 - b. ASTM A792: Steel Sheet, Aluminum-Zinc Alloy Coated by the Hot Dip Process
 - c. ASTM B209: Aluminum and Aluminum Alloy Sheet and Plate
2. Underwriters Laboratory
 - a. UL Building Materials Directory
3. Sheet Metal and Air Condition Contractors National Association, Inc. (SMACNA)
 - a. SMACNA Architectural Sheet Metal Manual, 1993 Edition
4. American Iron and Steel Institute (AISI)
 - a. AISI Cold Formed Steel Design Manual
5. Aluminum Association
 - a. Aluminum Design Manual
6. Metal Construction Association (MCA)
 - a. Preformed Metal Wall Guidelines
7. Code References:
 - a. ASCE 7, Minimum Loads for Buildings and Other Structures
 - b. IBC, International Building Code

B. Experience:

1. Manufacturer shall have a minimum of ten (10) years experience in manufacturing standing seam metal roofing.
2. Panel installer shall have a minimum of two (2) years experience in the installation of standing seam metal roofing and shall show evidence of successful completion of at least three (3) projects of similar size, scope, and complexity.

1.3 SUBMITTALS

- A. Shop Drawings: Submit Shop Drawings showing roof plan with layout of panels, clips, clip attachment, underlayment and sections of each flashing/trim condition for approval prior to fabrication. Drawings shall contain material type, metal thickness and finish. Drawings shall distinguish between factory and field fabrication.
- B. Product Data: Submit manufacturer's specifications, standard profile sheet, product data brochure and finish warranty.

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- C. Samples:
1. Submit sample 12" long x full panel width showing proposed metal gauge, seam profile and specified finish.
 2. Submit manufacturer's standard colors for OWNER's selection. If design or bid documents specify a color, submit color specified.
- D. Test Reports: Submit the test reports prepared by Underwriters Laboratory indicating wind uplift rating of the proposed roof system. The manufacturer must be listed by name in the UL Directory.
- E. Certification: Submit manufacturer's certification that materials and finishes meet specification requirements.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Panels and flashings shall be protected and properly packaged to protect against transportation damage in transit to the jobsite.
- B. Upon delivery, exercise care in unloading, stacking, moving, storing and erecting panels and flashings to prevent twisting, bending, scratching or denting.
- C. Store panels and flashings in a safe, dry environment under a waterproof covering to prevent water damage. Allow adequate ventilation to prevent condensation. Panels and flashings with strippable film shall not be stored in direct sunlight.
- D. Upon installation immediately remove strippable film from panels and flashings. Protect panels and flashings from foot traffic and from all other trades.

1.5 WARRANTY

- A. Standing seam metal roof manufacturer shall provide a twenty (20) year warranty on the paint finish covering chalking, cracking, checking, chipping, blistering, peeling, flaking, and fading.
- B. Applicator shall furnish written warranty for a two (2) year period from date of substantial completion of building covering repairs required to maintain roof and flashings in watertight condition.

PART 2 - PRODUCTS

2.1 SERVICE CONDITIONS AND PERFORMANCE

- A. System shall be designed to withstand service conditions described in 01610 – General Equipment Requirements and be in compliance with all applicable codes and regulations.

2.2 STANDING SEAM METAL ROOFING

A. Roof Panels:

1. Performance Requirements: Provide factory formed, prefinished, concealed clip structural standing seam metal roof system that has been pretested and certified by manufacturer to comply with specified requirements under installed conditions.
2. Roof system shall meet the wind uplift test requirements in accordance with UL 580 Class 90 when the panels are attached to a substructure meeting the assembly requirements of UL 580.
3. Structural Requirements: Engineer panels for structural properties in accordance with the latest edition of American Iron and Steel Institute's *Cold Formed Steel Design Manual* using "effective width" concept and Aluminum Association's *Aluminum Design Manual*.
4. Panels shall be constructed from 24 gauge, Grade 50 (50 ksi yield strength) structural steel with AZ50 (0.50 oz./ft.²) aluminum-zinc alloy coating, both conforming to ASTM A792.
5. Each panel shall be formed with a 1-1/2" to 2-1/2" seam height.
6. Panel width will be between 12- and 18-inches from seam to seam. Between seams, each panel shall have two or more equally spaced ridges, or stiffeners running parallel with seams.
7. Each panel shall be designed to be screwed to the roof substrate, then have the adjacent panel mechanically seamed with a field-operated, electric- seaming machine provided by the manufacturer in such a way that all screws are concealed.
8. Roof panels shall use a standard UL 90 one-piece roof clip allowing for thermal movement of the panel system.
9. Panels shall be designed for use on roofs with pitch as shallow as 2-inch per foot
10. The panel system shall be a true standing seam shape requiring no trapezoidal foam closures, plugs, or fillers at eaves.
11. Texture: panels shall be smooth or have striations to eliminate oil canning potential.

B. Underlayment:

1. Ice and Water Shield Waterproofing Membrane: 40 mil self-adhered roofing underlayment meeting ASTM E96.

C. Flashing, Roof Jacks, and Trim

1. All flashing, roof jacks, and trim shall be of the same material, gauge, finish, and color as the roof panels and fabricated in accordance with standard SMACNA procedure and details.
2. Provide transition rib covers where roofing changes pitch or Z-closure made from the same material.
3. Provide rake and eave trim at the roof perimeter.
4. Provide roof jacks at all roof penetrations.
5. Fabricate gutters and downspouts in the same gauge, material, finish and color as the roof panels.
6. Flashings shall be designed and installed to allow thermal expansion of the roofing system.

D. Closures:

1. Ridge and hip closures shall be protected and supported by a formed metal closure manufactured from the same material, color and finish as the panels.
2. Metal closures shall be factory fabricated and field-cut as needed.

E. Finish:

1. Metal Preparation: all metal shall have the surfaces carefully prepared for painting on a continuous process coil coating line by alkali cleaning, hot water rinsing, application of chemical conversion coating, cold water rinsing, sealing with an acid rinse, and thorough drying.
2. Prime Coating: a base coat of epoxy paint, specifically formulated to interact with the top-coat, shall be applied to the prepared surfaces by roll coating to a dry film thickness of 0.20 ± 0.05 mils. This prime coat shall be oven cured prior to application of finish coat.
3. Exterior Coating: a Kynar® 500/Hylar® 5000 finish coating shall be applied over the primer by roll coating to a dry film thickness of 0.80 ± 0.05 mils for a total dry film thickness of 1.00 ± 0.10 . This finish coating shall be oven-cured.
4. Interior Finish Coating: a washcoat shall be applied on the reverse side over the primer by roll coating to a dry film thickness of 0.30 ± 0.05 mils for a total dry film thickness of 0.50 ± 0.10 mils. The washcoat shall be oven-cured.
5. Color: Color shall be as noted on Drawings, or as selected by OWNER.

F. Fasteners:

1. Clips to Substrate: screws shall be #10 diameter, self-tapping type, zinc-plated steel, with Phillips style pancake head.
2. Flashings to Panels: exposed screws shall be zinc plated with a #14 x 1" combination steel and neoprene washer, color to match panel.

G. Sealants:

1. Shall not contain oil, asbestos or asphalt.
2. Field applied panel end sealant shall be mastic tape sealant.
3. Exposed sealant shall be one-part polyurethane joint sealant, color to coordinate with roof panels.

H. Product and Manufacturer:

1. ATAS International: Field-Lok
2. Fabral: Stand'N Seam
3. MBCI: SuperLok
4. Or approved equal.

2.3 METAL SOFFIT PANELS

- A. General: Provide factory-formed metal soffit panels designed to be field-assembled by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fastening in side laps; included accessories for a complete, weathertight installation.

- B. Flush Profile: Perforated panels formed with vertical panel edges and intermediate stiffening ribs symmetrically spaced at 4-inch nominal on center between panel edges with flush joint between panels.
 - 1. Material: 22-gauge minimum metal thickness.
 - 2. Finish: Fluoropolymer.
 - 3. Color: As selected from manufacturer's standard color range.
 - 4. Sidelap Sealant: Factory apply sealant, except where no sealant is required. Field-applied sealant is not acceptable.
 - 5. Trims and Flashings: Material, metal thickness, and finish to match panels. Provide profile closures at the ends of panels as required.
 - 6. Fasteners: Concealed fasteners per manufacturer's recommendation.
 - 7. Panel Coverage: 12 inches.
Panel Height: 1 inch.
- C. Manufacturer and Product:
 - 1. AEP Span: Prestige Series
 - 2. McElroy Metal: Marquee-Lok
 - 3. MBCI: Artisan Series
 - 4. Or approved equal.

2.4 FABRICATION

- A. Field dimensions shall be taken prior to fabrication to verify jobsite conditions.
- B. Roof panels shall be formed in continuous lengths. End-laps will not be allowed.
- C. Panels shall be roll formed on a stationary industrial type rolling mill. Portable roll formers, rented or owned by the installer, are not acceptable.
- D. Fabricate flashings from the same material as the roof system.
- E. Follow tolerances in MCA's Preformed Metal Wall Guidelines.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Examine roof deck for conditions that would prevent proper application of roofing. Immediately notify Contractor and Engineer of defects, and do not proceed with roofing operation until defects are corrected.
- B. Verify that surfaces to receive roofing are smooth, sound, clean and dry.

- C. Layout Pattern:
1. Lay out to place seams equidistant from corners and aligned with seams on other side of hip or ridge.
 2. Coordinate Work of this section with flashing, trim, and other construction to provide a permanently leakproof, secure, and noncorroding installation.

3.2 INSTALLATION

- A. Conform to manufacturers written instructions, the standard set forth in the SMACNA architectural sheet metal manuals and the approved shop drawings detailed for the project.
- B. Roof Underlayment:
1. Provide a double layer of underlayment.
 2. Provide 18" wide starter strip of underlayment at the eaves, followed by a 36" wide strip of underlayment which completely overlaps the 18" wide starter strip.
 3. Continue with consecutive 36" wide strips of underlayment, overlapping 19" at each course, shingle-style.
 4. Total of a double layer of underlayment plus 2" overlap at the horizontal seams is required.
 5. Overlap vertical seams 6" and minimize their occurrence.
 6. Provide ice and water shield membrane at all valley and eave conditions as well as any area at less than a 3:12 slope.
- C. Standing Seam Roof Panel Installation:
1. Install panels straight with the seams parallel, conforming to the design as indicated.
 2. Install panel system so it is watertight, without waves, warps, buckles or distortions, and allow for thermal movement considerations.
 3. Abrasive devices shall not be used to cut on or near the roof panel system.
 4. Apply sealant tape or caulking as necessary at flashing and panel joints to prevent water penetration.
 5. Remove any strippable film immediately upon exposure to direct sunlight.
- D. Metal Soffit Panel Installation:
1. Install panels straight over the full width of soffit.
 2. Install perpendicular to support framing.
 3. Flash and seal panels with weather closures where metal soffit panels meet walls and at perimeter of openings and joints.
 4. Align soffit panel joints with roof or wall panel joints where occurs.
 5. Install trims, closures, flashings, and sealants in accordance with the manufacturer's recommended details.

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3.3 CLEANING

- A. Dispose of any excess materials and debris from jobsite.
- B. Remove filings, grease, stains, marks, or excess sealants from roof panel system to prevent staining.
- C. Protect work from damage from other trades until final acceptance.
- D. Replace metal roof or soffit panels that have been damaged or have deteriorated beyond successful repair.

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SECTION 07600

METAL FLASHING, GUTTERS, DOWNSPOUTS AND OTHER ROOFING SPECIALTIES

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings: Provide documentation showing the gutter, gutter guard, and downspout profiles, dimensions and material properties. Show joints, types and location of fasteners, and special shapes.

1.2 DELIVERY, HANDLING, AND STORAGE

- A. Package and protect during shipment.
- B. Inspect for damage, dampness, and wet storage stains upon delivery to the Work site.
- C. Remove and replace damaged or permanently stained materials that cannot be restored to like-new condition.
- D. Carefully handle to avoid damage to surfaces, edges, and ends.
- E. Do not open packages until ready for use.
- F. Store materials in dry, weathertight, ventilated areas until immediately prior to installation.

PART 2 - PRODUCTS

2.1 METAL

- A. Galvanized Sheet Steel: ASTM A653, G90, commercial quality copper bearing steel, thickness 24 gauge, unless otherwise shown.

2.2 ANCILLARY MATERIALS

- A. Solder: ASTM B32, alloy composition Sn 50.
- B. Soldering Flux: ASTM B32, Type RA.
- C. Sealer Tape: Polyisobutylene sealer tape as specified in Section 07900, JOINT SEALANTS.
- D. Isolation Paint: As specified in Section 09900, PAINTING AND PROTECTIVE COATINGS, System No. 27.
- E. Isolation Tape: Butyl or polyisobutylene, internally reinforced, or 20-mil thick minimum polyester.
- F. Plastic Roof Cement: ASTM D4586, Type II.

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- G. Fasteners:
 - 1. For Galvanized Steelwork: Steel, galvanized per ASTM A153 or stainless steel fasteners.
 - 2. Nails: Roofing nailhead, 10-gauge spiral or ring shank, lengths as required to penetrate wood at least 3/4-inch.
- H. Gutter Guard (Cover): Provide low profile perforated metal gutter guards compatible with the gutter style supplied. Gutter guards shall be riveted or screwed to the lip of the gutter.

2.3 FABRICATION OF FLASHING

- A. Field measure prior to fabrication.
- B. Fabricate in accordance with SMACNA Architectural Sheet Metal Manual.
- C. Accurately form flashings to shapes shown and detailed, with angles and lines in true alignment.
- D. Form angles true to line and surfaces free of waves and buckles.
- E. Form bends to 1/16-inch inside radius.
- F. Hem exposed edges.
- G. Reinforcements and Supports: Provide same material as flashing unless other material is shown. Steel, where shown or required, shall be galvanized or stainless.
- H. Rigid Joints and Seams: Make mechanically strong. Solder galvanized and stainless steel metal joints. Do not use solder to transmit stress.
- I. At exposed ends of counterflashing furnish weathertight closures.
- J. Neutralize soldering flux.
- K. Solvent clean sheet metal. Surfaces to be in contact with roofing or otherwise concealed shall be coated with isolation paint.

2.4 FABRICATION OF DOWNSPOUTS AND GUTTERS

- A. Fabricate in accordance with SMACNA Architectural Sheet Metal Manual.
- B. Form downspouts and gutters in maximum lengths as practicable to sizes and shapes indicated on Drawings or to field-fit the locations shown on the drawings.
- C. Telescope end joints 1-1/2 inches and lock longitudinal joints of downspouts.
- D. Furnish elbows at bottom where downspouts empty onto splash blocks.

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PART 3 - EXECUTION

3.1 INSTALLATION

- A. Flashing:
1. Coordinate flashing Work with roofing Work for weathertight and watertight assembly.
 2. Isolate metal from wood and concrete and from dissimilar metal with isolation tape or two coats of isolation paint.
 3. Use only stainless steel fasteners to connect isolated dissimilar metals.
 4. Set flanges of flashings and roof accessories on continuous sealer tape or in plastic roof cement on top of deck. Nail flanges through sealer tape and at 3-inch maximum spacing. Touch up isolation paint on flanges.
 5. Joints, Fastenings, Reinforcements, and Supports: Sized and located as required to preclude distortion or displacement due to thermal expansion and contraction.
 6. Provide continuous holddown clips at counterflashing and edge drips.
 7. Conceal fastenings wherever possible.
 8. Set flashing and sheet metal to straight, true lines with exposed faces aligned in proper plane without bulges or waves.
- B. Downspouts and Gutters: Anchor downspouts to wall with straps of same material as downspouts. Install gutters, scuppers, and conductor heads as indicated on Drawings.

3.2 FINISH

- A. Exposed Surfaces of Flashing and Sheet Metalwork: Free of dents, scratches, abrasions, or other visible defects, and clean and ready for painting where applicable.

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SECTION 07900

JOINT SEALANTS

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Product Data: Surface preparation and installation instructions. Indicate where each product is proposed to be used. Provide sealant certified to NSF/ANSI Standard 61 where sealant is in direct contact with potable water.
- B. Samples: Material proposed for use showing color range available.
- C. Quality Control Submittals:
 - 1. Applicator Qualification: Documentation showing minimum of 5 years' experience installing sealants in projects of similar scope.
 - 2. Certificates of Compliance: Proposed materials meet Specification requirements.

1.2 ENVIRONMENTAL REQUIREMENTS

- A. Ambient Temperature: Between 40 and 80 degrees F (4 and 27 degrees C) when sealant is applied. Consult manufacturer when sealant cannot be applied within these temperature ranges.

PART 2 - PRODUCTS

2.1 SEALANT MATERIALS

- A. Sealant Characteristics:
 - 1. Uniform, homogeneous.
 - 2. Free from lumps, skins, and coarse particles when mixed.
 - 3. Nonstaining, nonbleeding.
 - 4. Hardness of 15 minimum and 50 maximum, measured by ASTM C661 method.
 - 5. Immersible may be substituted for nonimmersible.
- B. Sealant Color: To match adjacent surfaces or as selected by ENGINEER.
- C. One-Part Polyurethane, Immersible:
 - 1. Polyurethane base, single-component, moisture curing; ASTM C920, Type S, Grade NS or P, Class 25.
 - 2. Capable of being continuously immersed in water.
 - 3. Designed to be used where the maximum depth of sealant will not exceed 1/2 inch.
 - 4. Provide sealant certified to NSF/ANSI Standard 61 where sealant is in direct contact with potable water.
 - 5. Manufacturers and Products for Nonsag:
 - a. Sika Construction: Sikaflex-1a.
 - b. Tremco: Vulkem 116.
 - c. Or approved equal.
 - 6. Manufacturers and Products for Self-Leveling:
 - a. Sika Construction: Sikaflex-1C SL.

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- b. Tremco: Vulkem 45 SSL.
- c. Or approved equal.

2.2 BACKUP MATERIAL

- A. Nongassing, extruded, closed-cell round polyethylene foam rod, compatible with sealant used, and as recommended by sealant manufacturer.
- B. Size: As shown or as recommended by sealant material manufacturer. Provide for joints greater than 1/2-inch deep. Backup material should be sized to maintain 2:1 width to depth ratio to the greatest extent possible.
- C. Manufacturers and Products:
 - 1. Dow Corning; Ethafoam SB.
 - 2. Sonneborn; Sonofoam.
 - 3. Or approved equal.

2.3 ANCILLARY MATERIALS

- A. Bond Breaker: Pressure sensitive tape as recommended by sealant manufacturer to suit application. Provide bond breaker tape in the bottom of joints to prevent 3-sided joint sealant adhesion when backup material is not used.
- B. Joint Cleaner: Noncorrosive and nonstaining type, recommended by sealant manufacturer; compatible with joint forming materials.
- C. Primer: Nonstaining type recommended by sealant manufacturer to suit application

PART 3 - EXECUTION

3.1 GENERAL

- A. Use of more than one material for the same joint is not allowed unless approved by the sealant manufacturer.
- B. Install joint sealants in accordance with ASTM C1193.
- C. Horizontal and Sloping Joints of 1 Percent Maximum Slope: Use self-leveling (Grade P) joint sealant.
- D. Steeper Sloped Joints, Vertical Joints, and Overhead Joints: Use nonsag (Grade NS) joint sealant.

3.2 PREPARATION

- A. Verify that joint dimensions, and physical and environmental conditions, are acceptable to receive sealant.
- B. Surfaces to be sealed shall be clean, dry, sound, and free of dust, loose mortar, oil, and other foreign materials.
 - 1. Mask adjacent surfaces where necessary to maintain neat edge.
 - 2. Starting of work will be construed as acceptance of subsurfaces.

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- 3. Apply primer to dry surfaces as recommended by sealant manufacturer.
- C. Verify that joint shaping materials and release tapes are compatible with sealant.
- D. Examine joint dimensions and size materials to achieve required width/depth ratios.
- E. Carefully follow manufacturer's instructions for mixing multi-component products.

3.3 INSTALLATION

- A. Use joint filler to achieve required joint depths, to allow sealants to perform intended function.
 - 1. Install backup material as recommended by sealant manufacturer.
 - 2. Where possible, provide full length sections without splices; minimize number of splices.
 - 3. Tape sealant may be used as joint filler if approved by sealant manufacturer.
- B. Use bond breaker where recommended by sealant manufacturer and in the bottom of joints to prevent 3-sided joint sealant adhesion.
- C. Seal joints around window, door and louver frames, expansion joints, and elsewhere as indicated.
- D. Joint Sealant Materials: Follow manufacturer's recommendation and instructions, filling joint completely from back to top, without voids.
- E. Joints: Tool slightly concave after sealant is installed.
 - 1. When tooling white or light color sealant, use a water wet tool.
 - 2. Finish joints free of air pockets, foreign embedded matter, ridges, and sags.
- F. Tape Sealant: Compress to 50 percent of expanded thickness and install in accordance with manufacturer's instructions.

3.4 CLEANING

- A. Clean surfaces next to the sealed joints of smears or other soiling resultant of sealing application.
- B. Replace damaged surfaces resulting from joint sealing or cleaning activities.

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SECTION 08100

METAL DOORS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Provide and install metal doors per this section and Door Schedule included in the Drawings.

1.2 SUBMITTALS

- A. Shop Drawings: Applicable information for each type of door and frame, including:
 - 1. Frame conditions, complete anchorage details, dimensions, glazing, fire ratings, etc.
 - 2. Reference door numbers used on Drawings and in Door Schedule on shop drawings.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Identify each door with number used on Drawings and in Door Schedule.
- B. Store doors upright, in protected dry area and provide for air circulation around each door. Store doors at least 4-inches off of the floor to prevent water damage and wear of door bottom on floor. Do not cover doors in plastic tarps or other storage provisions which promote water damage and rust. If door packaging becomes wet, remove it immediately.

PART 2 - PRODUCTS

2.1 HOLLOW STEEL DOORS

- A. General:
 - 1. Doors and Frames shall conform to SDI 100, except as modified herein.
 - 2. Doors and Frame cutouts, anchors and reinforcement shall conform to SDI 107 and ANSI A115 to receive hardware as specified elsewhere.
- B. Materials:
 - 1. Doors, frames and frame components shall be manufactured from commercial quality carbon steel conforming to ASTM designation A366, with an A60 zinc-iron alloy coating conforming to ASTM designation A653.
- C. Hollow Metal Doors:
 - 1. Flush Panel Doors: 16-gauge, Grade III, Model 1, with honeycomb or polyurethane core.
 - 2. Trim for doors with glass cutouts shall be 18-gauge galvanized steel. If the trim is installed using screws, screws shall be only visible from the non-secure side of the door. Trim shall be flush or shall protrude no more than 1/16" from the door face, and shall be the same on both sides of the door.
 - 3. All doors shall have flush end closure at top of doors to eliminate moisture penetration. Door tops shall not have holes or openings.

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4. All doors shall include a self-adjusting, concealed door sweep installed in the bottom channel. The bottom seal shall not include springs.
 5. Glass Lites
 - a. Provide door with a narrow lite (N) located along the lock edge of the door with exposed glass dimensions of approximately 4" x 25" where indicated in the Door Schedule.
 - b. Provide door with a half glass (G) where indicated in the Door Schedule.
 - c. Glazing:
 - 1) All glass shall be 1/4" thick fully tempered safety glass, manufactured by a horizontal process.
 - 2) The tempered glass shall meet, at the time of installation, quality and strength requirements of ASTM C-1036 and ASTM C-1048 and the safety criteria of CPSC 16 CFR 1201 and ANSI Z97.1-1984.
 - 3) Glass shall be appropriate for service in environmental conditions from -10 degrees Fahrenheit air temperature to 130 degrees Fahrenheit air temperature.
 - 4) Glass shall be labeled as follows: Each pane of safety glass shall be identified by a label specifying the labeler, whether the manufacturer or installer, the type and thickness of glass, and the safety glazing standard with which it complies. Label shall be acid etched, sand blasted, ceramic fired or an embossed mark or otherwise written so that it cannot be removed without destroying the glass.
 6. Door swing shall be as shown on Drawings.
- D. Metal Frames:
1. Products of hollow metal door manufacturer, constructed to coordinate with hollow metal door.
 2. Frames for Doors 14-Gauge: Welded type, of cross-section shown.
 3. Finished size, shape, and profile of frame members as shown.
 4. Concealed fasteners or welding are preferred to through-the-face fasteners.
 5. Identification: Stamp opening number, as shown on Drawings and in Door Schedule, on center hinge reinforcement of each frame.
- E. Finish:
1. Doors and frames shall be cleaned and phosphate treated.
 2. Doors and frames shall be galvanized with A60 or G60 zinc coating in accordance with ASTM A525 (Wipe Coat galvanized coating is not acceptable).
 3. Doors and frames shall be finished with a baked-on rust-inhibiting primer in accordance with ANSI A250.3. Doors shall be field finished in accordance with Section 09900.
- F. Manufacturers and Models:
1. Steelcraft L series with F series frame
 2. Curries 727 series with M type frame
 3. Or equal.
- G. Door Schedule:
1. See Drawings.

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PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean and prepare rough opening to accept metal frame. Identify and report any deficiencies in rough opening to Engineer prior to installing metal frame.

3.2 INSTALLATION

- A. Metal Frames:
 - 1. Set all frames in accordance with SDI 105.
 - 2. Set welded frames in position prior to beginning partition work.
 - 3. Brace frames until permanent anchors are set.
 - 4. Set anchors for frames as work progresses.
 - 5. Install anchors at hinge and strike levels.
 - 6. Use temporary setting spreaders at all locations.
 - 7. Use intermediate spreaders to assure proper door clearances and header braces for grouted frames.
 - 8. Install frames in prepared openings in concrete and masonry walls using countersunk bolts and expansion shields.
- B. Hollow Metal Doors:
 - 1. Install hollow metal doors in frames using hardware specified in Section 08700 Door Hardware.
 - 2. Clearances at edge of doors
 - a. Between door and frame at head and jambs: 1/8 inch.
 - b. At meeting edges pairs of doors and at mullions: 1/8 inch.
 - c. At transom panels, without transom bars: 1/8 inch.
 - d. At sills without thresholds: 5/8 inch maximum above finish floor.
 - e. At sills with thresholds: 1/8 inch above threshold.

3.3 ADJUSTMENT AND CLEANING

- A. Remove dirt and excess sealants, mortar or glazing compounds from exposed surfaces.
- B. Adjust moving parts for smooth operation. Use shims if necessary to allow for proper closing.
- C. Fill all dents, holes, etc. with metal filler and sand smooth and flush with adjacent surfaces - Reprime/paint to match finish.

+ + END OF SECTION + +

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SECTION 08300

METAL COILING OVERHEAD DOORS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Provide and install interior face-mounted, insulated rolling service door assemblies, completely weather sealed and provided with all necessary accessories and components for a complete installation.

1.2 SUBMITTALS

- A. Shop Drawings: Construction and installation details.
- B. Quality Control: Installer's factory authorization.

1.3 QUALITY ASSURANCE

- A. Qualifications: Experienced, factory authorized installer.

PART 2 - PRODUCTS

2.1 METAL COILING OVERHEAD DOOR

- A. Features:
 - 1. Dimensions: Provide Metal Coiling Overhead doors to fit the openings with the dimensions shown on the drawings.
 - 2. Door Curtain Slats: Interlocking roll-formed flat profile type slats as follows:
 - a. The front slat shall be fabricated of 18-gauge galvanized steel.
 - b. The back slat shall be 24-gauge galvanized steel.
 - 3. Provide insulated slats.
 - a. The slat cavity shall be filled with CFC-free formed-in-place polyurethane insulation.
 - 4. Endlocks shall be attached to each end of alternate slats to prevent lateral movement.
 - 5. Windload Design: 20 PSF.
 - 6. Weatherseals: Vinyl bottom seal, exterior guide and internal hood seals.
 - 7. Bottom Bar: Two galvanized steel angles, minimum thickness 1/8" bolted back to back to reinforce curtain in the guides.
 - 8. Guides:
 - a. Provide three galvanized structural steel angles with minimum thickness of 3/16".
 - b. Guides shall be weatherstripped with a vinyl weather seal at each jamb, on the exterior curtain side and interior curtain side.
 - 9. Brackets: Galvanized steel to support counterbalance, curtain and hood.
 - 10. Counterbalance:
 - a. Helical torsion spring type.
 - b. Designed for 100,000 cycle life design.
 - c. Housed in a steel tube or pipe barrel, supporting the curtain with deflection limited to 0.03" per foot of span.

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- d. Adjustable by means of an adjusting tension wheel.
 - 11. Hood:
 - a. Galvanized steel
 - b. 24 gauge
 - c. Intermediate supports as required.
 - d. Provide with internal hood baffle weatherseal.
 - 12. Color: Powder coating finish in color as selected by ENGINEER from manufacturer's standard colors.
 - 13. Operation: Manual chain hoist (continuous chain, crank operation).
 - 14. Locking: Interior bottom bar slide boltlock and chain keeper locks.
- B. Manufacturers and Products:
- 1. Overhead Door Corp.; 625 Series Stormtite rolling door.
 - 2. The Cookson Co.; Type ESD20.
 - 3. Or equal.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Examine the substrates and conditions under which the Work is to be installed and notify ENGINEER, in writing, of conditions detrimental to the proper and timely completion of the Work. Do not proceed with the Work until any unsatisfactory conditions have been corrected in a manner acceptable to ENGINEER.

3.2 INSTALLATION

- A. Strictly comply with manufacturers installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances.

3.3 TESTING AND ADJUSTING

- A. Upon completion of installation including the work by other trades, test and adjust doors to operate easily, free from warp, twist or distortion.
- B. Test the door in presence of ENGINEER to demonstrate proper operation.

3.4 ADJUSTING AND CLEANING

- A. Adjust doors and operators for smooth, easy operation.
- B. Repair any damage to paint or finishes.
- C. Leave door assemblies clean and remove all debris from work area.

+ + END OF SECTION + +

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SECTION 08305

ACCESS HATCHES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Provide all materials, equipment, and accessories to furnish and install the following access hatches:
 - 1. Flush floor hatches
 - 2. Roof hatches

1.2 QUALITY ASSURANCE

- A. Warranty: Provide a 1-yr warranty on all hatches from date of installation. Warranty shall cover defects in workmanship, design, and materials. If any component should fail during the warranty period, it shall be corrected and the unit restored to service at no expense to the OWNER.

1.3 DESIGN REQUIREMENTS

- A. In other locations and where designated as "Standard" hatches shall be designed for a live load of 300 pounds per square foot.

1.4 SUBMITTALS

- A. Shop Drawings:
 - 1. Detailed drawings showing component and assembly dimensions, location of connections, weights of all equipment, installation details, and accessory details.
- B. Product Data:
 - 1. Descriptive literature, specifications, and engineering data.
 - 2. Materials of construction for all components and accessories.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. All equipment and accessories shall be properly protected during shipment such that no damage or deterioration shall occur between shipment and installation.
 - 1. Finished surfaces shall be protected by wooden blanks.
 - 2. Finished ferrous metal surfaces not painted shall be protected from corrosion.
 - 3. Each box and package shall be clearly marked with the contents and total weight.
- B. Manufacturer shall provide any special storage and handling instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. General: Acceptable manufacturers are listed below. Other manufacturers of equivalent products may be submitted.

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1. Aluminum hatches:
 - a. The Bilco Co.
 - b. Babcock-Davis, Inc.
 - c. Or Equal.

2.2 MATERIALS

- A. Unless otherwise noted, all access hatches shall be constructed of aluminum.
- B. Aluminum hatches shall be provided with aluminum frames and stainless-steel hardware.
- C. Steel hatches and frames shall be galvanized and provided with galvanized or cadmium-plated hardware.

2.3 FLUSH FLOOR HATCHES

- A. General
 1. Doors shall be pre-assembled from the manufacturer.
 2. Covers shall open 90 degrees and be equipped with a hold open arm which automatically locks the cover in the open position.
 3. Covers shall be fitted with the required number and size of compression spring operators. Springs shall have an electrocoated acrylic finish. Spring tubes shall be constructed of a reinforced nylon 6/6-based engineered composite material.
 4. A removable exterior turn/lift handle with a spring loaded ball detent shall be provided to open the cover and the latch release shall be protected by a flush, gasketed, removable screw plug.
 5. Hardware:
 - a. Hinges shall pivot so that the cover does not protrude into the channel frame.
 - b. A Type 316 stainless steel snap lock with fixed handle shall be mounted to the underside of the cover.
 6. Entire door and all hardware components shall be highly corrosion resistant.
 7. Doors shall be sealed with an EPDM gasket for odor control purposes.
- B. **H-100:** Single leaf flush floor hatch for walking areas (up to 42-inch by 42-inch)
 1. Furnish and install where indicated on drawings flush floor access hatch. The hatch shall be single leaf.
 2. Service: Floor hatch for use in areas of foot traffic.
 3. Features:
 - a. Material:
 - 1) Cover: ¼-in aluminum diamond pattern plate
 - 2) Frame: ¼-in extruded aluminum
 - b. The cover shall be reinforced to support a minimum live load of 300 lb/ft² with a maximum deflection of 1/150th of the span.
 - c. Hinges:
 - 1) Aluminum cover: Provide heavy forged aluminum hinges with a minimum ¼-in diameter Type 316 stainless steel pin.
- C. **H-101:** Double leaf flush floor hatch for walking areas (over 42-inch by 42-inch)
 1. Furnish and install where indicated on drawings flush floor access hatch. The hatch shall be double leaf.
 2. Service: Floor hatch for use in areas of foot traffic.
 3. Features:
 - a. Material:

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- 1) Cover: ¼-in aluminum diamond pattern plate
- 2) Frame: ¼-in extruded aluminum
- b. The cover shall be reinforced to support a minimum live load of 300 lb/ft² with a maximum deflection of 1/150th of the span.
- c. Hinges:
 - 1) Aluminum cover: Provide heavy forged aluminum hinges with a minimum ¼-in diameter Type 316 stainless steel pin.

2.4 ROOF HATCHES

A. General

1. All roof hatches shall be preassembled from the manufacturer.
2. Entire hatch shall be weathertight with fully welded corner joints on cover and curb.
3. Cover:
 - a. Material: 11 gauge aluminum with a 3-inch beaded flange with formed reinforcing members.
 - b. Cover shall be reinforced to support a minimum live load of 40 psf with a maximum deflection of 1/150th of the span or 20 psf wind uplift.
 - c. Cover shall have a heavy extruded EPDM rubber gasket that is bonded to the cover interior to assure a continuous seal when compressed on the top surface of the curb.
 - d. Cover insulation shall be fiberglass of 1-inch thickness, fully covered and protected by an 18 gauge aluminum liner.
4. Curb:
 - a. Material: 11 gauge aluminum
 - b. The curb shall be 12 inches in height.
 - c. The curb shall be formed with a 3-1/2-inch flange with 7/16-inch holes provided for securing to the roof deck.
 - d. The curb shall be equipped with an integral metal capflashing of 11 gauge aluminum, fully welded at the corners.
 - e. Curb insulation shall be rigid, high-density fiberboard of 1-inch thickness on outside of curb.
5. Lifting Mechanisms:
 - a. Manufacturer shall provide compression spring operators enclosed in telescopic tubes to provide smooth, easy, and controlled cover operation.
 - b. The upper tube shall be the outer tube to prevent accumulation of moisture, grit, and debris inside the lower tube assembly.
 - c. The lower tube shall interlock with a flanged support shoe welded to the curb assembly.
6. Winch Operated Rigging:
 - a. Manufacturer shall provide winch operated rigging to allow the roof hatches to be manually opened from ground floor level.
 - b. Rigging shall include all winches, cables and pulleys per roof hatch.
 - c. Contractor shall install rigging and provide all necessary hardware and stand-off brackets to allow the winches to be readily accessible without interference of adjacent mechanical, structural or electrical items.
 - d. Layout of rigging shall be approved by ENGINEER prior to installation.
7. Hardware:
 - a. Heavy pintle hinges shall be provided.
 - b. Cover shall be equipped with a spring latch with interior and exterior turn handles.
 - c. Roof hatch shall be equipped with interior and exterior padlock hasps.
 - d. The latch strike shall be a stamped component bolted to the curb assembly.

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- e. Cover shall automatically lock in the open position with a rigid hold open arm equipped with a 1-inch diameter red vinyl grip handle to permit easy release for closing.
 - f. Compression spring tubes shall be an anti-corrosive composite material and all other hardware shall be zinc plated and chromate sealed. Springs shall have an electrocoated acrylic finish for corrosion resistance.
 - g. Cover hardware shall be bolted into heavy gauge channel reinforcing welded to the underside of the cover and concealed within the insulation space.
8. Factory finish shall be mill finish aluminum.
- B. **H-201:** Single leaf roof hatch for small equipment access
- 1. Furnish and install where indicated on plans a metal roof hatch.
 - 2. Dimensions: width of 60 inches and length of 60 inches (hinge side).
 - 3. The roof hatch shall be single leaf.
 - 4. Furnish winch operated rigging for each roof hatch.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install in accordance with the manufacturer's recommendations and approved shop drawings. Install level and square with other construction, without warp or rack.
- B. Unless otherwise shown, hatches shall be cast integrally with concrete decks, and shall not be grouted in later.
- C. Coordinate precise location with equipment to be accessed thereby.
- D. Aluminum surfaces shall be protected with two heavy coats of asphaltic or zinc chromate paint, where they are in contact with concrete or masonry.

+ + END OF SECTION + +

SECTION 08700
DOOR HARDWARE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Provide all materials, equipment, and accessories to furnish and install door hardware.

1.2 SUBMITTALS

- A. Shop Drawings:
1. Product Data: Manufacturers' literature for each item of finish hardware required herein, clearly marked.
 2. Finish Hardware Schedule: Furnish complete and detailed schedule, show product items, numbers, and finishes for all hardware for each separate opening.
 3. Special Tools: Provide listing and description of usage.

1.3 QUALITY ASSURANCE

- A. Qualifications of Supplier: A recognized supplier of architectural finish hardware, with warehousing facilities, who has been furnishing hardware in the vicinity of the Project for not less than 5 years, and who is, or who employs, an architectural hardware consultant.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Provide secure storage for all finish hardware until installation is made.
- B. Before delivery, clearly identify and tag each item of hardware with respect to specified description and location of installation.

1.5 SPECIAL TOOLS

- A. Provide two sets of special tools for installation and maintenance of hardware.

PART 2 - PRODUCTS

2.1 DOOR HARDWARE

- A. Provide all door hardware from a single manufacturer in order to have consistency in appearance, function and maintenance procedures.
- B. Fasteners:
1. All fasteners shall be type 304 stainless steel.
- C. Butt Hinges:
1. Conforming to ANSI A156.1-88.
 2. Quantity per Door Leaf (Minimum):

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DOOR HEIGHT	MINIMUM NUMBER OF HINGES PER LEAF
Up to 5'-0"	2 ea
5'-0" to 7'-7"	3 ea
7'-7" to 10'-0"	4 ea
10'-0" to 12'-6"	5 ea
Over 12'-6"	One for every 30" of door height, rounding up

3. Hinge Size: Except as otherwise specified or as required to comply with UL and NFPA, provide hinges of the following sizes:
 - a. Up to 36" wide: 4½" heavy weight.
 - b. Over 36" to 48" wide: 5" heavy weight.
 - c. Over 48" wide: 6" heavy weight.
4. Types of Hinges: Full-mortise type, ball-bearing hinges swaged for mortise applications, inner leaf beveled, square cornered.
5. Width: Minimum for clearance of trim and 180-degree swing.
6. Exterior Hinges: Non-removable pin.
7. Joint Tolerance: 0.012-inch maximum, gauged in CLOSED position.
8. Material: type 304 stainless steel.
 - a. Finish: Satin stainless steel No. 630.
9. Hinge Manufacturers and Models:
 - a. Stanley FBB191-32D
 - b. McKinney TB2314
 - c. Or Equal.

D. Exit Devices:

1. Provide exit devices on all exit doors listed in the Door Schedule complying with ANSI A156.3.
2. Furnish cylinders on all exterior doors.
3. Provide card key access with key backup on each door, Johnson Controls to match existing City of Roseville Systems.
4. Exit Device Manufacturer and Model:
 - a. To be determined as part of Design-Assist process to match OWNER's existing facilities.

E. Coordinator:

1. Provide coordinator at all double doors.
2. Coordinator Manufacturers and Models:
 - a. Ives COR7G.
 - b. Or Equal.

F. Closers:

1. Provide closers on all exterior doors or as indicated in the Door Schedule which comply with ANSI A156.4.
2. Size closers in accordance with manufacturer's standards. Mount regular arm closers on pull side of doors. Mount parallel arm closers on push side of doors. On pair of doors provide closer on active leaf only, unless noted otherwise.
3. Closer Manufacturers and Models:
 - a. LCN 4110 Series
 - b. Sargent 351 Series
 - c. Or Equal.

G. Thresholds:

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1. Provide threshold at each door as indicated in the Door Schedule or shown on the drawings: One-piece full width of opening; extend beyond jamb where indicated.
 2. Provide with stainless steel machine screws in threaded expansion anchors at concrete.
 3. Finish: Mill finish aluminum, unless indicated otherwise.
 4. Threshold Manufacturers and Models:
 - a. Pemko 274X4AFG
 - b. Reese Enterprises, Inc. S407A
 - c. Or Equal.
- H. Weatherstrip:
1. Provide complete weatherstrip system at exterior doors, including rubber or vinyl at jambs and head, door sweep, rain drip, astragal seal for 2-leaf doors, and all other weatherstripping necessary to provide a weather-sealed door system which does not allow air or moisture movement through the gap between the door and frame.
- I. Stops and Holders:
1. Provide stops and holders for all doors with closers in accordance with ANSI A156.16.
 2. Finish: Satin chromium-plated No. 626.
 3. Stop/Holder Manufacturers and Models:
 - a. Ives WS445
 - b. Hager Companies 256
 - c. Or Equal.

2.2 KEYING

- A. Coordinate Keying System with OWNER. Provide master-keying and local-keying to match OWNER's keying system prior to Final Completion.
- B. Provide removable construction core system for use during construction.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. In accordance with manufacturer's written instructions.
- B. Make Work neat and secure, develop full strength of components, and provide proper function.
- C. Prevent marring, scratching, or otherwise damaging adjacent finishes during hardware installation.
- D. Latchbolts: Install to engage in strikes automatically, whether activated by closers or manually. In no case shall additional manual pressure be required to engage latchbolt in strike.
- E. Wall Mounted Hardware: Install over solid structural backing or solid blocking in hollow walls.
- F. Thresholds:
 1. Cope ends neatly to profile of jamb.

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- 2. Set in sealant and seal ends to jambs.
- G. Hardware: Adjust for easy, noise-free operation.
- H. Replace damaged hardware items.

3.2 MOUNTING DIMENSIONS

- A. Standard Door Hardware Locations: As recommended and published by the Door and Hardware Institute, except as noted or detailed otherwise.
- B. Door Silencers: Install 3 inches from top and bottom of jamb and 1 inch above strike at single doors, and 3 inches from edges of doors in head for pairs of doors.

3.3 MANUFACTURER'S SERVICES

- A. Deliver permanent lock cores to the site.
- B. Remove temporary construction cores and insert permanent cores.
- C. Inspect each lock set to ensure permanent cores are operating satisfactorily.
- D. Deliver to OWNER change and control keys for the permanent system.
- E. Return temporary construction cores to the manufacturer.

3.4 PROTECTION

- A. Cover and protect exposed surfaces of hardware during installation and until Substantial Completion.
- B. Fit, dismantle, and reinstall finish hardware as required for finish painting work.
- C. Protect and prevent staining of hardware during construction in accordance with manufacturer's recommendations.
- D. Remove protective measures and permanent lock cylinders installed prior to final cleaning.

+ + END OF SECTION + +

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SECTION 09250
GYPSUM WALLBOARD

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Furnish all materials, labor, equipment and incidentals required to install gypsum wallboard.

1.2 QUALITY ASSURANCE

- A. General: Regardless of the minimum specifications herein, utilize materials and applications recommended by the manufacturer.
- B. Applicator's Qualifications: Use only workers regularly employed in this type of work who can show experience in the application of similar materials and the specific systems specified.

1.3 SUBMITTALS

- A. Shop Drawings:
1. Manufacturer's list of items and materials proposed for use, with descriptive literature for each system used.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Delivery of Materials:
1. Deliver materials to the project site with manufacturer's labels intact and legible.
 2. Deliver fire rated materials bearing testing agency label and required fire classification numbers.
- B. Storage and Handling of Materials:
1. Store materials inside under cover, stack flat, off floor.
 2. Stack gypsum wallboard so that long lengths are not over short lengths.
 3. Store adhesives and finishing compounds in dry areas, and protect against freezing at all times.

1.5 ENVIRONMENTAL REQUIREMENTS

- A. Temperature:
1. In areas receiving gypsum wallboard installation, maintain temperature range between 55 and 70 degrees F for 24 hours before, during, and after gypsum wallboard and joint treatment application.
 2. In areas receiving veneer plaster, where outside air temperature is less than 50 degrees F, maintain interior temperature range between 50 degrees F and 80 degrees F for a period of 1 week before, during, and 1 week after application of veneer plaster, base, and joint treatment.
- B. Ventilation:
1. Provide ventilation during and following adhesives and joint treatment applications.

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2. Use temporary air circulators in enclosed areas lacking natural ventilation.
3. Keep air circulation at a minimum level during veneer plastering to avoid excessive drying.
4. Under slow drying conditions, allow additional drying time between coats of joint treatment.
5. Protect installed materials from drafts of ambient air during hot, dry weather.

PART 2 - PRODUCTS

2.1 GYPSUM WALLBOARD

- A. Regular Board: ASTM C36, Type X, 5/8 inch thick with tapered edges.

2.2 FASTENERS FOR GYPSUM WALLBOARD

- A. Screws: ASTM C1002, self-drilling, self-tapping, bugle head, for use with power-driven tool.
 1. Type S, 1-inch long for gypsum wallboard to sheet metal.

2.3 JOINT TREATMENT

- A. Joint Tape for General Interior Applications: ASTM C475, perforated paper tape.
- B. Joint Compound for General Interior Applications: ASTM C475, all-purpose, ready-mixed compound.

2.4 ANCILLARY MATERIALS

- A. Adhesives: As recommended by gypsum wallboard manufacturer for intended use.

2.5 TRIM ACCESSORIES

- A. Zinc-Coated Metal, ASTM C1047:
 1. Corner Bead: 1-1/4 inch by 1-1/4 inch:
 - a. United States Gypsum; Dur-A-Bead.
 - b. Award Metals; standard corner beads.
 - c. Clark Dietrich; standard corner beads.
 2. Edge Trim:
 - a. United States Gypsum; L-Trim and J-Trim.
 - b. Award Metals; L-Bead and J-Bead.
 - c. Clark Dietrich; L-Trim and J-Trim.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Inspect surfaces to receive gypsum wallboard and related materials before beginning work and report to ENGINEER any defects in such work which will adversely affect the quality of work specified herein.

3.2 PREPARATION

- A. General: Provide, install, and maintain necessary scaffolding, staging, trestles, planking, and temporary heating, lighting, and ventilation as necessary for the duration of the gypsum wallboard work.
- B. Protection: Protect work of other trades.
- C. Coordination:
 - 1. Coordinate work with that of other trades. Check specifications and drawings of other trades to determine parts of work requiring coordination.
 - 2. Cut and repair gypsum wallboard systems for installation of omitted work.
- D. Surface Preparation: Repair defective surfaces prior to starting work. Prepare as specified for application of specific materials.

3.3 APPLICATION OF GYPSUM WALLBOARD

- A. Inspection and Preparation:
 - 1. Check framing for accurate spacing and alignment.
 - 2. Verify that spacing of installed framing does not exceed maximum allowable for thickness of gypsum wallboard to be used.
 - 3. Verify that frames are set for thickness of gypsum wallboard to be used.
 - 4. Do not proceed with installation of gypsum wallboard until deficiencies are corrected and surfaces to receive gypsum wallboard are acceptable.
 - 5. Protrusions from framing, twisted framing members, or unaligned members must be repaired before installation of gypsum wallboard is started.
- B. General:
 - 1. Meet requirements of ASTM C840 and GA-216.
 - 2. Joints: Use gypsum wallboard of maximum lengths to minimize end joints. Stagger end joints when they occur. Locate end joints as far as possible from center of wall or ceiling. Abut gypsum wallboard without forcing. Neatly fit ends and edges of gypsum wallboard. Do not place butt ends against tapered edges.
 - 3. Support ends and edges of gypsum wallboard panels on framing or furring members except for face layer of double layer and where ends are back blocked and floated.
 - 4. Use metal edge trim where gypsum wallboard abuts another material and where shown or noted on Drawings.
 - 5. Use gypsum fiberglass-mat faced gypsum backing board in toilet and shower walls, behind ceramic tile, and elsewhere as indicated on Drawings.
 - 6. Follow manufacturer's recommendation of good practice.
- C. Over Framing:
 - 1. Apply gypsum wallboard first to ceiling and then to walls for single layer horizontal application.
 - 2. Use vertical application for fire-rated walls.
 - 3. Fasten gypsum wallboard securely to framing using double nailing, screw, or adhesive method.

3.4 JOINT SYSTEM

- A. Interior Gypsum Wallboard: Conform to ASTM C840.

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- B. Required: On exposed gypsum wallboard, under ceramic tile and wall covering, and behind casework.
- C. Prefill: Fill V-grooves formed by abutting rounded edges of gypsum wallboard with prefill joint compound. Fill V-joint flush and remove excess compound beyond groove. Leave clear depression to receive tape. Permit prefill joint compound to harden prior to application of tape.
- D. Taping and Finishing Joints:
 - 1. Taping or Embedding Coat: Apply compound in thin, uniform layer to joints and angles to be reinforced. Apply reinforcing tape immediately. Center tape over joint and seat tape into compound. Leave approximately 1/64-inch to 1/32-inch compound under tape to provide bond. Apply skim coat immediately following tape embedment but not to function as fill or second coat. Fold tape and embed in angles to provide true angle. Dry embedding coat prior to application of fill coat.
 - 2. Filling Coat: Apply joint compound over embedding coat. Fill taper flush with surface. Apply fill coat to cover tape. Feather out fill coat beyond tape and previous joint compound line. For joints with no taper, feather out at least 4 inches on either side of tape. Do not apply fill coat on interior angles. Allow fill coat to dry prior to application of finish coat.
 - 3. Finishing coat: Spread joint compound evenly over and beyond fill coat on joints. Feather to smooth uniform finish. Apply finish coat to tapes angles to cover tape and taping compound. Sand final application of compound to provide surface ready for decoration.
 - 4. Filling and Finishing Depressions:
 - a. Apply joint compound as first coat to fastener depressions. Apply at least two additional coats of compound after first coat is dry. Leave filled and finished depressions level with plane of surface.
- E. Finishing Beads and Trim:
 - 1. First Fill Coat: Apply joint compound to bead and trim. Feather out from ground to plane of the surface. Dry compound prior to application of second fill coat.
 - 2. Second Fill Coat: Apply joint compound in same manner as first fill coat. Extend beyond first coat onto face of gypsum wallboard. Dry compound prior to application of finish coat.
 - 3. Finish Coat: Apply joint compound to bead and trim. Extend beyond second fill coat. Feather finish coat from ground to plane of surface. Sand finish coat to provide flat surface ready for decoration.

3.5 FINAL FINISHES

- A. Levels of Finish: Conform to GA-214.
- B. Level 5:
 - 1. Taping, filling, and finishing coats plus two separate coats applied over joints, angles, fastener heads, and trim accessories.
 - 2. Sand between coats and after last coat.
 - 3. Add a thin, smooth, uniform skim coat of joint compound, or product specially formulated for this purpose, over entire surface.
 - 4. Produce surfaces free of tool marks and ridges, ready for painting.
 - 5. Use on surfaces not indicated otherwise, those indicated to receive gloss, semi-gloss, and nontextured flat paints, and where indicated.

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3.6 ADJUST AND CLEAN

- A. Clean: Remove droppings or texture overspray from walls, windows, and floor, leaving room clean for following trades.

+ + END OF SECTION + +

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SECTION 09900

PAINTING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Provide and install coatings on all exposed surfaces as indicated herein, in other Specification Sections, and on the Drawings.

1.2 QUALITY ASSURANCE

- A. Experience: Both Coatings Manufacturer and Coatings Installer shall have a minimum 5 years' experience in production and application, respectively, of specified products. Coatings Installer shall be approved and endorsed, in writing, by Coatings Manufacturer.
- B. Regulations: Meet federal, state, and local requirements which apply to the work, including, but not limited to those regulations limiting the emission of volatile organic compounds.
- C. Coatings Manufacturer Recommendations: Coatings Installer shall follow all recommendations of the Coatings Manufacturer regarding storage, handling, surface preparation, application of coatings, recoat times, environmental conditions during storage, preparation and application of coatings, and all other Coatings Manufacturer recommendations.
- D. Warranty: Both Coatings Manufacturer and Coatings Installer shall provide a 1-year complete replacement warranty for all coatings. Manufacturer shall provide 5-year warranty for long-term performance of coatings in addition to 1-year warranty.

1.3 SUBMITTALS

- A. Shop Drawings: Coatings Manufacturer shall submit for approval the following:
 - 1. Copies of Manufacturer's technical information and application instructions for each material proposed for use. Specify exactly which product is being proposed for each coating type (as specified below). This may be accomplished through a reference table along with information on the various products, or by a separate, tabbed section with information on products being submitted for each system in a separate tab of a binder. Submittal of general Manufacturer's literature without detailing which product is proposed for each paint system will be unacceptable.
 - 2. Copies of Manufacturer's complete color charts for each coating system.
 - 3. Letter from the Coatings Manufacturer approving and endorsing Coatings Installer.
 - 4. Letter from Coatings Manufacturer stating that volatile organic compounds (VOCs) meet all Federal, State and Local requirements.
 - 5. Furnish copies of the final, approved submittal to the Coatings Installer so that it is clear which product is to be used for which each system.
- B. Reference Samples:
 - 1. Provide reference samples of paint colors and textures as required by the ENGINEER. Reference samples will show the color and texture of the final paint to be applied and shall be approved by the ENGINEER prior to painting. Reference samples should be

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applied to similar substrates to the final surfaces to be painted. If ENGINEER chooses to forego reference samples, CONTRACTOR must receive the allowance to forego reference samples before painting begins or all painted surfaces will be re-painted at the ENGINEER's discretion and at no additional cost to the OWNER.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Protection: Protect all pre-coated items from coating damage during shipping.
- B. Store products in accordance with Manufacturer's directions.
- C. Store products in a neat, orderly fashion. Protect products from damage. Protect storage area from damage from stored products.

PART 2 - PRODUCTS

2.1 PRODUCT AND MANUFACTURER:

- A. Provide coating types as listed in the following table. The systems referenced in the table are those provided by TNEMEC and Sherwin-Williams. If manufacturers other than TNEMEC or Sherwin Williams are desired, the CONTRACTOR shall submit equivalent paint systems.

COATING TYPE	DESCRIPTION	Sherwin Williams Series	TNEMEC SERIES
Clear Polyamine Epoxy	Clear Polyamine Epoxy, high solids, moisture resistant, designed as a one-coat wood sealer.	GP3477	Series 201, Epoxoprime
Acrylic Filler	Waterborne Cementitious Acrylic designed for application on porous surfaces such as rough-faced concrete masonry units	CementPlex 875	Series 130, Envirofill
Acrylic Latex	Single component, finish as required	ProMar 200	N/A
Industrial Acrylic	Single component, high density acrylic finish for interior, exterior surfaces	Shercryn HPA	Series 1029
Latex Primer/ Sealer	Waterborne vinyl acrylic primer/sealer for interior gypsum wallboard/plaster. Capable of providing uniform seal and suitable for use with specified finish coats.	ProMar 200 Primer	Series 115
Polyamine Epoxy Sealer	Waterborne Polyamine Epoxy, penetrating, flexible and low-odor primer designed for sealing porous substrates.	Multi-Purpose Acrylic Primer	Series 151, Elasto-Grip FC
Acrylate	Modified Waterborne Acrylate designed for application on porous surfaces such as rough-faced concrete masonry units or wood surfaces. Flexible and breathable, moisture and UV resistant. Matte Finish	Loxon XP	Series 156, Enviro-crete
Polyamidoamine	Polyamidoamine Epoxy designed for	Sher-glass	Series N69, V69

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Epoxy	use on steel or other ferrous metals not in contact with potable water but submerged or immersed in wastewater or non-potable water.	FF	or L69 (type per local VOC regulations), Hi-Build Epoxoline II
	Polyamidoamine Epoxy designed for use on steel or other ferrous metals in contact with potable water.	Macropoxy 5500	Series N140, L140 or V140 (type per local VOC regulations), Pota-Pox Plus
Polyurethane	Aliphatic Acrylic Polyurethane designed for exterior weathering, abrasion and corrosion resistance	HS Polyurethane 250 or Waterbased Acrolon	Series 1095, Endura-Shield
Silane Water Repellent Sealant	Silane/Siloxane penetrating water repellent blend designed for application on above-grade concrete, stucco, block, masonry and stone surfaces	Loxon 7% Siloxane	Series 636, Dur A Pell 20
Wood Sealer / Stain	Single component, 250 g/l wood stain in clear or standard colors	Minwax 250	
Wood Varnish Finish	Single component polyurethane varnish	Minwax	

- B. All coatings used shall comply with Federal, State and local VOC limits based on application location.

2.2 COLOR

- A. Color Pigments: Pure, nonfading, lead-free applicable types to suit the substrates and service indicated.
- B. Provide colors as described in the drawings or specifications, or as selected by ENGINEER from standard color palette. For piping system colors, reference City of Roseville Process Control Standards.
- C. Where existing colors are to be matched or satisfactory color is not available from standard color palette, provide custom-mixed colors.
- D. Provide samples of each color on the substrate to be coated for approval by the ENGINEER prior to beginning coating application.

PART 3 - EXECUTION

3.1 SURFACE PREPARATION

- A. Coatings Installer shall prepare all surfaces to be painted in strict accordance with Coatings Manufacturer's recommendations.
- B. Coatings Manufacturer representative shall observe Coatings Installer's methods of preparing surfaces and approve of the work prior to Coatings Installer beginning coating

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installation. If, after a period of time, Coatings Manufacturer is satisfied with Coatings Installers methods, Coatings Manufacturer can allow Coatings Installer to proceed without inspection following surface preparation. Coatings Manufacturer and installer will still both be held equally accountable for any coatings failure.

C. Wood surface preparation

1. Coatings Installer shall clean and prepare all wood surfaces in accordance with the Coating Manufacturer's recommendations. Patching may be required where approved by the Engineer. All joints in wood members including trim, siding, soffits, and joints between wood and dissimilar materials shall be filled with joint sealant prior to coating.

3.2 PROTECTION

- A. Protect all adjacent surfaces from overspray, dripping or other transfer of coatings not intended for those surfaces. Use masking, tape, drop cloths, plastic and other protective materials as appropriate.
 1. Remove, mask, or otherwise protect hardware, lighting fixtures, switchplates, aluminum surfaces, stainless steel surfaces, machined surfaces, couplings, shafts, bearings, nameplates on machinery, and other surfaces not intended to be painted.
 2. Protect working parts of mechanical and electrical equipment from damage during surface preparation and painting process. Mask openings in motors, fan housings, etc. to prevent coatings from falling inside.
 3. Correct all damages by cleaning, repairing or replacing, and repainting, as acceptable to ENGINEER.
- B. Completely remove all masking, tape, drop cloths, plastic and other protective materials within 48 hours of completion of application of finish coat. Take special care to remove masking and plastic which cover tank vent openings, HVAC registers, vents, motor vents, and other areas where airflow is critical to proper operation.

3.3 APPLICATION

- A. Paint all exposed surfaces not specifically excluded in 3.3.C, below. Provide and install Coatings in accordance with the following Table, unless otherwise specified in other Sections:

COATING SYSTEM NO.	SURFACE TO BE COATED	PRIMER COATING	NO OF PRIMER COATS	PRIME COAT THICKNESS (EACH COAT)	FINISH COATING	NO OF FINISH COATS	FINISH COAT THICKNESS (EACH COAT)
100	Concrete Masonry Units (Interior)	Acrylic Filler	1	70 SF/Gal Application Rate	Acrylate	2	135 SF/Gal Application Rate
101	Concrete Masonry Units (Exterior)	Silane Waterproofing Sealant	1	250 SF / Gal Application Rate	None		
102	Concrete Roof Slab (Exterior)	Silane Waterproofing Sealant	1	250 SF/Gal Application Rate	None		

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COATING SYSTEM NO.	SURFACE TO BE COATED	PRIMER COATING	NO OF PRIMER COATS	PRIME COAT THICKNESS (EACH COAT)	FINISH COATING	NO OF FINISH COATS	FINISH COAT THICKNESS (EACH COAT)
200	Wood (Interior and Exterior)	Polyamine Epoxy	1	250 SF/Gal Application Rate	Acrylate	2	135 SF/Gal Application Rate
201	Wood (Interior, where noted)	Wood Sealer	1	250 SF/Gal Application Rate	Wood Finish	1	350 SF/Gal Application Rate
202	Gypsum Board (Interior)	Latex Primer/Sealer	1	350 SF/Gal Application Rate	Acrylic Latex (Semigloss)	2	400 SF/Gal Application Rate
300	Exposed Ferrous Pipe Systems and Exposed Steel Items	Polyamidoamine Epoxy	2	4-6 MDFT	Polyurethane	2	2-3 MDFT
301	Exposed, Non-metallic Pipe Systems	Latex Primer/Sealer	1	3-5 MDFT	Acrylic Latex (Semigloss)	2	3-5 MDFT
302	Immersed Ferrous Pipe Systems and Steel Items	Polyamidoamine Epoxy*	1	6-10 MDFT	Polyamidoamine Epoxy*	1	6-10 MDFT
303	Immersed Non-metallic Pipe Systems	Latex Primer/Sealer*	1	4-6 MDFT	Acrylic Latex (Semigloss)*	1	4-6 MDFT
304	Buried Ferrous and Steel Items	Polyamidoamine Epoxy	1	8-10 MDFT	Polyamidoamine Epoxy	1	8-10 MDFT
305	Aluminum Surfaces in Contact with Concrete	Polyamidoamine Epoxy	1	4-6 MDFT	None		
	Steel Tank	Per 09871, Coating of Steel Water Storage Tank					
	Pumps	Touch up factory applied coatings, per Pump Specifications					

* Where in contact with potable water, coating shall be NSF-61 certified.

B. Items Delivered with Factory Applied Primer:

1. For items delivered with a factory applied primer and requiring painting under this Section, the factory applied primer may be used in lieu of field applied primer only under the following conditions:
 - a. The ENGINEER approves the use of the factory applied primer in lieu of field applied primer.
 - b. The factory applied primer is certified by the Coatings Manufacturer as compatible with the field applied finish coat.

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- c. The Coatings Manufacturer's recommended recoat time for the factory applied primer has not been exceeded.
 2. If all of the above conditions are not met, the Coatings Installer shall re-prepare all surfaces to be painted in strict accordance with Coatings Manufacturer's recommendations and primer applied, in accordance with this Section.
- C. Table Definitions:
1. SF/Gal: Square foot of coverage per gallon of coating used.
 2. MDFT: mil dry film thickness
 3. mil: 1/1000 of an inch paint thickness
 4. Ferrous Pipe: Includes Ductile Iron, Cast Iron, Steel, and Galvanized Steel piping
 5. Steel Items: Includes steel and galvanized steel items such as structural steel, doors, window frames, overhead coiling doors, bollard posts, steel gates, steel fences, and all other steel and galvanized steel items.
 6. Non-Metallic Pipe: Polyvinyl Chloride, Chlorinated Polyvinyl Chloride, Fiberglass Reinforced Plastic, High Density Polyethylene
 7. Exposed: Located above grade, exposed to the atmosphere not submerged. Includes surfaces inside and outside of buildings.
 8. Submerged: In an area which normally is under water or other liquid or is intermittently under water or other liquid.
 9. Buried: Located below grade, surrounded by backfill.
- D. Surfaces Not Requiring Painting:
1. Unless otherwise stated or shown below or in other sections, the following areas or items will not require painting or coating:
 - a. Concrete surfaces.
 - b. Reinforcing steel.
 - c. Copper, bronze, brass, Monel, aluminum, chromium plate, and stainless-steel surfaces, except where:
 - 1) Required for electrical insulation between dissimilar metals.
 - 2) Aluminum and stainless steel are embedded in concrete or masonry, or aluminum is in contact with concrete or masonry.
 - 3) Color coding of equipment and piping is required.
 - d. Existing piping, fittings and pipe supports.
 - e. Pipe unions or portions of piping systems where painting would make disassembly difficult or impossible.
 - f. Prefinished electrical, mechanical and architectural items such as motor control centers, switchboards, switchgear, panelboards, transformers, disconnect switches, HVAC equipment enclosures, ductwork, acoustical tile, cabinets, louvers, and wall panels.
 - g. Electrical conduits.
 - h. Cathodic protection anodes.
 - i. Insulated piping and insulated piping with jacket will require prime coat only.
 - j. Fiberglass reinforced plastic (FRP) surfaces with an integral ultra-violet resistant colored gel coat do not require painting, provided the color is as selected.
 - k. Glass, plexiglass or other transparent or translucent material intended to allow passage of light.
 - l. Civil/site materials such as asphalt, gravel, rock, chain-link fence, and plantings.

3.4 RECOAT TIMES:

- A. Coatings Installer shall observe all requirements of the Coatings Manufacturer regarding recoat times.

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3.5 PAINT LOG

- A. Coatings Installer shall keep a paint log
 - 1. Specific details of the contents and format paint log shall be determined by the Coatings Installer and approved by the ENGINEER.
 - 2. At a minimum, paint log shall record, on a daily basis for any day when coating work is performed:
 - a. Weather conditions, including 3-day forecast
 - b. Which surfaces were prepared for coating
 - c. Approval of surface preparation by the Coatings Manufacturer representative
 - d. Which surfaces or systems were coated that day
 - e. Who the installer was (specific names of persons on crew)
 - f. Which coating type was used
 - g. Which coat was installed
 - h. What the application rate or MDFT was (as approved by ENGINEER)
 - 3. Paint log shall be kept on-site. Paint log shall be signed on a daily basis, for any day when coating work is performed, by the supervisor of the coatings installer field crew and by the ENGINEER.
 - 4. Any painted surface which was not recorded in the paint log shall be stripped, re-prepared, and recoated at the ENGINEER's discretion.

3.6 WARRANTY INSPECTION

- A. Warranty inspection shall be conducted during the eleventh month following completion of the Work. All defective Work shall be repaired by the CONTRACTOR in accordance with this Specification and to the satisfaction of the ENGINEER and at the CONTRACTOR'S expense.
- B. Any location where paint has peeled, bubbled, or cracked and any location where rusting is evident shall be considered to be a failure of the system. The CONTRACTOR shall make repair at all points where failures are observed by removing the deteriorated paint, cleaning the surface, and recoating or repainting with the same system. If the area of failure exceeds 25 percent of the total coated or painted surface, the entire coating or paint system may be required to be removed and repainted in accordance with this specification as determined by the ENGINEER.
- C. All costs for CONTRACTOR'S inspection, Manufacturer's inspection and all costs for repair shall be borne by the CONTRACTOR.

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SECTION 10340

ARCHITECTURAL SUNSHADES AND CANOPIES

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Work in this section includes furnishing and installation of roll-formed aluminum overhead hanger rod style canopies as shown on the Drawings.

1.2 QUALITY ASSURANCE

- A. Qualifications:
1. Designer: Professional Civil or Structural Engineer registered in the same state as the Project.
 2. Erector: Approved by the manufacturer.
- B. Warranty: Furnish manufacturer's extended guarantee or warranty, with OWNER named as beneficiary, in writing. Warranty shall provide for correction, or at the option of OWNER, removal and replacement of Work specified in this Section found defective during a minimum period of 5 years after date of Substantial Completion. Finish will not chalk, crack, check, blister, peel, flake, chip or lose adhesion for 5 years.

1.3 SUBMITTALS

- A. Shop Drawings:
1. Drawings stamped by manufacturer's Designer:
 - a. Drawings shall be specifically prepared for this Project.
 - b. Show structural component locations and positions, dimensions, and details of construction and assembly.
 2. Structural Calculations stamped by manufacturer's Designer:
 - a. Complete analysis and design of structural components and connections in accordance with the design requirements indicated.
 3. Samples: Minimum 2-inch by 3-inch metal components requiring color selection.
- B. Product Data:
1. Manufacturer's literature and technical data.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Protect components and accessories from corrosion, deformation and other damage during delivery, storage and handling.
- B. Store on wood blocking or pallets, flat and off ground, to keep clean and to prevent damage or permanent distortion. Support bundles so there is no danger of tipping, sliding, rolling, shifting, or material damage. Cover with tarpaulins or other suitable weathertight ventilated covering.

PART 2 - PRODUCTS

2.1 PRODUCT AND MANUFACTURER

- A. Products manufactured or supplied by the following, and meeting these Specifications, may be used on this Project:
 - 1. Mapes Architectural Canopies
 - a. Sunshade: SuperShade.
 - b. Canopy: Lumishade
 - 2. Or equal.

2.2 SERVICE CONDITIONS AND DESIGN CRITERIA

- A. Dead Load:
 - 1. As calculated.
- B. Live Load:
 - 1. 0 psf.
- C. Snow Load:
 - 1. 30 psf.
- D. Wind Load:
 - 1. Basic Wind Speed: 85 mph
 - 2. Exposure Category: C.
 - 3. Importance Factor: 1.15
- E. Seismic:
 - 1. Seismic Design Category: D.
 - 2. Importance Factor: 1.0.
 - 3. Site Class: D.
 - 4. Design Spectral Acceleration Parameters:
 - a. $S_{DS} = 0.613$.
 - b. $S_{D1} = 0.348$.

2.3 COMPONENTS

- A. Materials:
 - 1. Decking at sunshades shall consist of louvered blades (.110 inch extruded aluminum).
 - 2. Decking at canopies shall consist of 2-1/2 inches interlocking, roll formed .032-inch decking.
 - 3. Intermediate framing members shall be extruded aluminum, alloy 6063-T6, in profile and thickness as required by manufacturer.
 - 4. Hanger rods to be powder coated finish to match the canopy.
 - 5. Fascia shall be standard 8-inch extruded, minimum .125 aluminum, flat face (Mapes style 'J').
- B. Finishes:
 - 1. Finish: Two-Coat Kynar Finish.
 - 2. Color: Selected by OWNER.

2.4 FABRICATION

- A. All sunshades and canopies shall be factory preassembled to the greatest extent possible.
- B. All connections shall be mechanically assembled utilizing 3/16-inch fasteners with a minimum shear stress of 350 pounds. Pre-welded or factory-welded connections are not acceptable.
- C. Concealed drainage at canopies: Water shall drain from covered surfaces into intermediate trough and be directed to downspouts.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Confirm that surrounding area is ready for the canopy installation.
- B. Installer shall field confirm dimensions and elevations to be as shown on shop drawings provided by the manufacturer and the Drawings.
- C. Erection shall be performed by an approved installer and scheduled after all concrete, masonry and roofing in the area is completed.

3.2 INSTALLATION

- A. Installation shall be in strict accordance with manufacturer's shop drawings and written instructions. Particular attention should be given to protecting the finish during handling and erection.

3.3 REPAIR AND CLEANING

- A. Immediately following erection, remove unused material, screws, fasteners, and other debris from completed installation. Use caution in removing metal cuttings from surface of prefinished metal panels.
- B. Replace damaged, dented, buckled, or discolored metal panels.

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SECTION 10400

IDENTIFICATION DEVICES

PART 1 - GENERAL

1.1 CONFORMANCE WITH CITY OF ROSEVILLE PROCESS CONTROL STANDARDS

- A. Refer to City of Roseville Process Control Standards (CORPCS) for pipe, equipment, valve, conduit, wire, and other system tag naming and labeling requirements for identification requirements for these systems.
- B. The following products and installation requirements are included in the Specifications as minimum requirements and for cost estimating purposes for bidding purposes, and for items that may not be addressed in the CORPCS. Where a conflict exists between the CORPCS and this section, the CORPCS has precedence and shall be followed.
- C. Efforts were made to label all major equipment and valves. However, not all equipment and valves may be shown with tag numbers on the Drawings, such as small diameter valves included in standard details or included as part of equipment packages. Refer to CORPCS for tag numbering requirements and convention for equipment and valves not shown with tag numbers (including equipment and valves not shown on the Drawings that are shown on Shop Drawings) and propose tag numbers coordinated with established sequences for ENGINEER approval.

1.2 DESCRIPTION

- A. Scope: Furnish and install signs, placards, and labels for safety equipment, hazards, and equipment and piping identification.

1.3 SUBMITTALS

- A. Shop Drawings:
 - 1. Provide manufacturer's literature showing available letter sizes and styles, standard and custom colors, and standard mounting details.
 - 2. Provide drawings showing layouts, actual letter sizes and styles, colors, and project-specific mounting details.

PART 2 - PRODUCTS

2.1 FIRE EXTINGUISHER LOCATION SIGNS

- A. Material:
 - 1. Subsurface silkscreened graphics on a transparent acrylic sheet, 0.08" thick with Helvetica Medium alphabet and matching arrows type face.
 - 2. Provide 2" high upper-case letters and 1" high lower-case letters.
- B. Fire Extinguisher Identification Sign:
 - 1. Provide 15"x 15" with 1" radiused corners, unframed.
 - 2. Provide one for each surface mounted fire extinguisher.
 - 3. Background color shall be red with white lettering.

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4. Signs shall incorporate a white directional arrow as located by ENGINEER.

C. Product and Manufacturer: Provide one of the following:

1. ASI/SPE MH (Four Corners) Plaque by ASI Sign Systems, Incorporated.
2. Or equal.

2.2 FIRE PROTECTION PLACARDS

A. Fire Protection Placards:

1. Provide diamond-shaped placards: 15" square of 0.125" rigid polyethylene.
2. The placard shall meet NFPA 704.

B. Product and Manufacturer: Provide one of the following:

1. W.H. Brady Company
2. Seton Name Plate Company
3. Or Equal

C. Provide fire protection placards in accordance with the following schedule:

LOCATION AND NUMBER OF SIGNS	MATERIAL	HEALTH	FLAMMABILITY	REACTIVITY	SYMBOL
Provide one sign at chemical pump and storage location	Sodium Hypochlorite	3	0	1	COR

2.3 MISCELLANEOUS SAFETY SIGNAGE

A. Safety signs shall comply with the following standards:

1. Occupational Safety and Health Administration (OSHA), Standards for General Industry, Subparts 1910.200 Hazard Communication (July, 1986).
2. National Fire Protection Association (NFPA) Standard No. 704 - Label System.
3. Uniform Fire Code, Latest Edition.
4. Uniform Fire Code Standard 79-3.

B. Safety signs shall be of height and width required by layout and shall be formed from semi-rigid butyrate, polyethylene or fiberglass. Lettering shall be 3-inches high and 1/2-inch in stroke.

C. Provide the following safety signs:

LOCATION AND NUMBER OF SIGNS	TEXT	BACKGROUND COLOR	LETTERING COLOR
Provide one at each eyewash safety shower location	SAFETY SHOWER/ EYEWASH	Green	White
Provide one at each above-grade motorized equipment location	CAUTION: EQUIPMENT STARTS AUTOMATICALLY	Yellow	Black
Provide one sign at each MCC and high-voltage switchboard location	DANGER: HIGH VOLTAGE	White	Black

2.4 EXIT SIGNS

- A. Material: Plastic, 1/8-inch minimum thickness.
- B. Lettering: 6 inches high, 3/4-inch stroke, white letters on red background.

2.5 IDENTIFICATION LABELS

- A. Pipe Labels and Flow Direction Arrows:
 - 1. Label, Lettering Color, Size and Placement: In accordance with ANSI A13.1, and as listed below.
 - 2. Label Colors:

Fluid Service	Background Color	Letter Color
Fire quenching fluids	Safety red	White
Toxic and corrosive fluids	Safety orange	Black
Flammable fluids	Safety yellow	Black
Combustible fluids	Safety brown	White
Potable, cooling, boiler feed, and other water	Safety green	White
Compressed air	Safety blue	White

- 3. Label Size:

Outside Diameter of Pipe Covering, inches	Length of Color Field, inches	Size of Letters, inches
3/4 to 1-1/4	8	1/2
1-1/2 to 2	8	3/4
2-1/2 to 6	12	1-1/4
8 to 10	24	2-1/2
Over 10	32	3-1/2

- 4. Label Placement:
 - a. Labels shall be positioned on the pipes so they can be easily read. Proper label placement is on the lower side of the pipe if the employee has to look up to the pipe, on the upper side of the pipe if the employee has to look down towards the pipe, or directly facing the employee if on the same level as the pipe. Labels should be located near valves, branches, where a change in direction occurs, on entry/re-entry points through walls or floors, and on straight segments with spacing between labels that allows for easy identification.
- 5. Material: Manufacture from or encase in outdoor grade plastic or vinyl that will resist damage or fading from washdown, sunlight, mildly corrosive atmosphere, dirt, grease, and abrasion.
- 6. Message: See Piping Schedule.
- 7. Labels:
 - a. Snap-Around Type: Size for finished outside diameter of pipe and insulation.
 - b. For 6 Inches and Over Diameter Pipe: May furnish strap-on type fastened without use of tools with plastic or stainless-steel straps.
 - c. Firmly grip pipe so labels remain fixed in vertical pipe runs.
- 8. Manufacturers and Products:
 - a. T & B/Westline, Rariton, NJ, Model WSS Snap-Around.
 - b. Seton Name Plate Corp., New Haven, CT, Setmark Series.

- c. Or equal.
- B. Equipment Labels:
 - 1. Applies to equipment with assigned tag numbers wherever specified.
 - 2. Lettering: Black bold face, 3/4-inch minimum high.
 - 3. Background: OSHA safety yellow.
 - 4. Materials: Either of the following:
 - a. Aluminum or stainless-steel base with a baked-on finish that is suitable for use on wet, oily, exposed, abrasive, and corrosive areas.
 - b. Fiberglass with fiberglass-encased lettering.
 - 5. Furnish 1-inch margin on each end of label for mounting. On fiberglass labels furnish grommets at each end for mounting.
 - 6. Size:
 - a. As appropriate for lettering provided.
 - b. Provide same-size labels for equipment series which are adjacent.
 - 7. Message: Equipment names and tag numbers as used in Sections where equipment is specified and/or on Drawings.
 - 8. Manufacturers and Products:
 - a. T & B/Westline Co., Rariton, NJ; Type KQ.
 - b. Seton Name Plate Corp., New Haven, CT; Style EB.
 - c. Or equal.

PART 3 - EXECUTION

3.1 INSTALLATION OF SIGNS

- A. Install Fire Extinguisher location signs at all fire extinguisher locations, approximately 12" above fire extinguisher mounting bracket.
- B. Install Exit Signs mounted to each door which leads to the outside of the building, on the panic bar side of the door, mounted to the door approximately 5'-6" above finished floor.
- C. Install all other signs at locations as shown on the drawings. Signs should be installed approximately 5'-6" off of finished floor, attached to doors where appropriate. Where two signs are indicated in the same location, signs should be mounted side-by-side, where possible.
- D. Install all signs plumb and level. They shall be attached with four stainless steel screws or anchor bolts as required for substrate. Provide theft/tamper-resistant fasteners on all signs.

3.2 INSTALLATION OF PIPE IDENTIFICATION LABELS

- A. Provide pipe identification label with flow arrows on all exposed piping systems as follows:
 - 1. At all connections to equipment, valves, tees or wall penetrations.
 - 2. At intervals along piping not greater than 18 feet on center with at least one label applied to each exposed horizontal and vertical run of pipe.
- B. Install pipe identification labels after all painting has been completed.

3.3 INSTALLATION OF EQUIPMENT IDENTIFICATION LABELS

- A. Install equipment identification labels on all equipment which has been given an equipment number in the Drawings or Specifications. Provide identification label which includes equipment name and tag number.
- B. Where no damage will be caused to equipment, mount equipment identification label directly to equipment. Otherwise, mount equipment identification labels to concrete equipment base or wall space. Install equipment identification label such that it is clear which piece of equipment is being labeled.
- C. Anchor to equipment or base for easy removal and replacement with ordinary hand tools.

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SECTION 10520
SAFETY EQUIPMENT

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope:
1. The following safety equipment is to be provided and installed by CONTRACTOR so that it may be integrated into OWNER's safety program for operation of the facility into which it is installed.
 2. The following safety equipment does not represent a complete package of safety equipment required to operate the facility. Refer to OWNER's safety program for all required safety equipment and procedures.

1.2 SUBMITTALS

- A. Shop Drawings: Provide manufacturer's product data for each item including sizes, ratings, UL listings, OSHA certifications or other certifications, and mounting/installation information.
- B. Warranty: Provide manufacturer's 5-year warranty on all products provided.

1.3 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Protect all equipment provided from all damage until such time as it is turned over to the OWNER.
- B. Safety equipment provided under this specification shall not be used by the CONTRACTOR in the construction of the facility. Safety equipment shall be turned over to the OWNER in new condition.

PART 2 - PRODUCTS

2.1 FIRE EXTINGUISHERS

- A. Provide at all locations labeled "FEXT" on Drawings.
- B. Provide Fire Extinguishers which Conform to NFPA-10 and as follows:
1. Tri-class dry chemical extinguishing agent.
 2. Pressurized, red enameled steel shell cylinder.
 3. Activated by top squeeze handle.
 4. Agent propelled through hose or opening at top of unit.
 5. For use on A, B, and C class fires.
 6. Minimum UL Rating: 4A:60B:C, 10-pound capacity.
- C. Mounting Hardware:
1. Furnish heavy-duty brackets with clip-together strap for wall mounting.
 2. Use all stainless steel fasteners for attaching brackets to wall.

- D. Manufacturers:
 - 1. Walter Kidde
 - 2. Master Protection Enterprises
 - 3. Or Equal

2.2 FALL PROTECTION EQUIPMENT

- A. Hatch Safety Net:
 - 1. Standards:
 - a. Comply with all applicable OSHA, UL, ANSI and other applicable standards.
 - 1) Including, but not limited to, OSHA 1926.502(c), safety net systems
 - 2. General Purpose:
 - a. Designed to allow visual inspection and wash down of confined space through net while preventing falls into open hatches. Designed to be easily removed for confined space entry once entrant is properly harnessed and utilizing proper retrieval system.
 - 3. Features:
 - a. Materials:
 - 1) Metallic parts shall be Aluminum and/or stainless steel
 - 2) Netting shall be UV-resistant, highly visible synthetic netting (polyester, or equal) in safety orange or safety yellow.
 - 3) Netting shall be stitched with UV-resistant PTFE thread.
 - b. Netting shall have approximately 4-inch openings to allow for visual inspection and wash-down through netting.
 - 4. Manufacturer and Product:
 - a. U.S. Netting, Hatch Net 121
 - b. U.S.F. Fabrication, Hatch Safety Net
 - c. Or equal
- B. Fall Protection Grating:
 - 1. Standards:
 - a. Comply with all applicable OSHA, UL, ANSI and other applicable standards including, but not limited to, OSHA 29 CFR 1910.23.
 - 2. General Purpose:
 - a. Designed to allow visual inspection and wash down of confined space through grating while preventing falls into open hatches.
 - b. Designed as a factory installed option to be easily opened for confined space entry once entrant is properly harnessed and utilizing proper retrieval system.
 - 3. Features:
 - a. Materials:
 - 1) Metallic parts shall be Aluminum and/or stainless steel.
 - 2) Fiberglass grating panel.
 - b. Fiberglass grating panel shall be equipped with lift assistance and automatic hold-open arm for ease of operation and user safety.
 - c. Fiberglass grating panel shall operate independently of the access cover.
 - d. Fall protection grating shall be rated for 300 psf.
 - 4. Manufacturer and Product:
 - a. The Bilco Co
 - b. Or equal
- C. Portable Davit Arm Retrieval System:
 - 1. Standards:
 - a. Comply with all applicable OSHA, UL, ANSI and other applicable standards.

2. General Purpose:
 - a. Designed to retrieve an entrant into a confined space using a standard personnel harness system.
3. Features:
 - a. 60-inch high center post with winch mounting assembly
 - b. Allows for either 18" or 24" reach on offset arm
 - c. Weight rating of 350 lbs
 - d. Safety factor of 10:1
4. Accessories:
 - a. Winch
 - 1) Designed to attach to a person that is entering or exiting from a confined space.
 - 2) Built with an internal braking system to prevent the accidental pay out of line, as well as a back-up locking pawl system to prevent "free-wheeling" of the winch.
 - 3) Cable extension (payout) should occur ONLY when the handle is turned counterclockwise AND a force of AT LEAST 10 lbs. (4.5 kg.) is applied to the line.
 - 4) The winch frame back plate attaches to a mounting plate which can then be mated to the Portable Davit Arm Retrieval System. Coordinate winch and Portable David Arm Retrieval System.
 - 5) Weight rated to 350 lbs.
 - 6) 10:1 safety factor
 - 7) 5.5:1 gear ratio single speed drive
 - 8) Retrieval rate of 23 feet per minute
 - 9) Continuous braking drive prevents free wheeling
 - 10) Double pawls on friction brake provide back-up safety
 - 11) Low wear, high temperature brake pads
 - 12) Anti-friction drive bearings
 - 13) Three permanent wraps of cable on the drum
 - 14) Level wind springs to prevent loosening of cable lays
 - 15) Slip clutch drive to prevent back-winding of cable drum
 - 16) Galvanic zinc coating of all metal parts
 - 17) Double action locking swivel snap hook
 - 18) Provide with 70 feet of stainless-steel cable
5. Flush Floor Mounted Davit Sleeve:
 - a. Provide flush floor mounted davit sleeve by same manufacturer as davit crane.
 - 1) Sleeve shall be designed specifically for davit crane and shall allow for full functionality and load rating of crane
 - 2) Sleeve and anchor bolts shall be stainless steel
 - 3) Sleeve to be designed for installation in concrete after concrete placement by core drilling a hole in the concrete and bolting sleeve to concrete floor using stainless steel chemical anchors, per manufacturer's instructions.
 - 4) Provide stainless steel debris cap with sleeve.
6. Manufacturer and Product:
 - a. Davit Crane: T.A. Pelsue Company, Model PNUH1824, or equal
 - b. Winch: T.A. Pelsue Company, Model PLPS806MR-70, or equal
 - c. Davit Sleeve: T.A. Pelsue Company, Model PNUS102B-SS, or equal
 - d. Debris Cap: T.A. Pelsue Company, Model PNUS106-SS, or equal

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2.3 LIFE PRESERVERS

- A. General: Life preservers shall be Coast Guard and SOLAS approved and designed and manufactured in accordance with 46 CFR 160.
- B. Features:
 - 1. Materials: Designed for outdoor storage and use in a corrosive environment. Made from high impact linear low-density polyethylene
 - 2. Size: 30-inch diameter
 - 3. Color: Orange
 - 4. Buoyancy: Must be such that the life preserver can support a minimum of 22-pounds for up to 48 hours in fresh Water
 - 5. Lettering: "LIFE PRESERVER" painted on in black letters, 3 inches high
- C. Manufacturers and products:
 - 1. Datrex: Model DX0300D
 - 2. Or equal

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install all safety equipment per manufacturers written instructions.
- B. Install fire extinguishers where "FEXT" is called out on the drawings, 48" above finished floor or adjacent grade.

+ + END OF SECTION + +

SECTION 11200

VERTICAL TURBINE PUMPS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Provide all materials, equipment, and accessories necessary to furnish and install multi-stage vertical turbine pumps, complete and operational with drivers, suction barrels, anchor bolting systems, and variable frequency drives where specified.
- B. The following equipment numbers have been assigned to the equipment that shall be provided. See attached pump and motor data sheets for detailed descriptions:
 - 1. Booster Pump Station
 - a. WD24_PUMP_54100
 - b. WD24_PUMP_54200
 - c. WD24_PUMP_54300
 - d. WD24_PUMP_54400

1.2 QUALITY ASSURANCE

- A. Reference Standards: Comply with requirements and recommendations of the following references, except as otherwise specified:
 - 1. Hydraulic Institute (HI)
 - 2. American Water Works Association (AWWA)
 - 3. National Electric Code (NEC)
 - 4. National Electrical Manufacturers Association (NEMA)
 - 5. Institute of Electrical and Electronic Engineers (IEEE)
 - 6. American Gear Manufacturers Association (AGMA)
 - 7. American National Standards Institute (ANSI)
 - 8. ASTM International (ASTM)
 - 9. Anti-Friction Bearing Manufacturers Association (ABMA)
 - 10. American Petroleum Institute (API)
- B. Quality Certification: Manufacturer supplying equipment furnished under this section shall hold current ISO 9001 certification.
- C. Unit Responsibility: All equipment specified herein shall be coordinated and provided by the pump manufacturer. Manufacturer assumes full responsibility for coordination of all components.
- D. Factory Tests: The selected manufacturer shall provide the following factory tests for approval upon acceptance of shop drawings:
 - 1. Provide the ENGINEER with 2-weeks advance notification in writing of the test schedule. The CONTRACTOR is advised that the factory tests may be witnessed by the OWNER and/or ENGINEER.
 - 2. Provide manufacturer's standard functional test on all equipment.
 - 3. Performance Test:
 - a. Conduct on each pump in conformance with the test standards and procedures specified in the Hydraulic Institute Standards and ANSI/AWWA E101.

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- b. Conduct the test using complete pump bowl assembly at manufacturer's minimum submergence, from shut-off head to maximum capacity. Record resulting curve showing head, flow, brake horsepower, speed, pump efficiency, and net positive suction head required (NPSHr). Plot results for a minimum of seven (7) evenly spaced measurements, including shut-off head, primary design point, best efficiency point, and maximum capacity.
- c. Pump performance results compared to rated speed and capacity at the primary design point shall be within tolerances specified by Hydraulic Institute Standards.
- d. Pumps shall not be shipped prior to ENGINEER's approval of test results.
- 4. Hydrostatic Test: test discharge heads and bowl assemblies at either twice the total dynamic head or one and a half times the shutoff head, whichever is greater.
- 5. Motor Test: Provide short commercial motor test per IEEE 115.

E. Warranty:

- 1. Provide a 1-yr warranty on all equipment from date of start-up. Warranty shall cover defects in workmanship, design, and materials. If any component should fail during the warranty period, it shall be corrected and the unit restored to service at no expense to the OWNER.

1.3 SUBMITTALS

A. Submit the following items to the ENGINEER for approval:

- 1. Shop drawings:
 - a. Detailed drawings showing component and assembly dimensions, location of mechanical and electrical connections, weights of all equipment, installation details, and accessory details.
 - b. Power and control wiring diagrams, including terminals and numbers.
 - c. Drawings, templates and directions for installation of anchor bolts.
- 2. Product data:
 - a. Descriptive literature, specifications, and engineering data.
 - b. Materials of construction for all components and accessories.
 - c. Impeller type and diameter, including rated diameter and minimum and maximum diameter available for the pump model.
 - d. Pump weight, motor weight, and complete assembly weight.
 - e. Complete motor nameplate data, as defined by NEMA.
 - f. Where specified, complete variable frequency drive information.
 - g. Factory finish system description.
 - h. Critical speeds of the pumps supplied.
 - i. Motor data:
 - 1) Test results
 - 2) Motor manufacturer
 - 3) Type
 - 4) Enclosure
 - 5) Service Factor
 - 6) Phase
 - 7) Voltage
 - 8) Rated Horsepower
 - 9) Speed
 - 10) Full load and locked rotor amperage
 - 11) Temperature rating
 - 12) Estimated bearing life under design conditions.
 - 13) Minimum efficiency at $\frac{1}{4}$, $\frac{3}{4}$, and full load.
 - 14) Descriptive literature including description of motor insulation.

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3. Performance data:
 - a. Pump rated speed.
 - b. Rated and maximum pump horsepower, and driver horsepower.
 - c. Casing working pressure.
 - d. Minimum submergence.
 - e. Maximum down and up thrust.
 - f. Efficiency and NPSHr at each specified operating condition.
 4. Submit Pump Performance Curves:
 - a. Provide pump curves showing head, brake horsepower, pump efficiency, and NPSHr and capacity, for the entire operating range of the pump.
 - b. Correct curves for pump losses and shaft friction horsepower losses. Include pump losses, column and discharge head losses.
 - c. All curves shall clearly display the specified operating conditions and the manufacturers Allowable Operating Region (AOR) and Preferred Operating Region (POR) as defined under ANSI/HI 9.6.3.
 - d. Where variable speed drives are specified, curves shall have at least five (5) speeds plotted between maximum and minimum speed.
 - e. Speed shall be clearly shown on all curves.
 5. Manufacturer's Certificate of Proper Installation.
 6. Operations and Maintenance Manuals: The selected manufacturer shall provide six sets of operation and maintenance manuals for the equipment provided. The manuals shall contain the following information at minimum:
 - a. Equipment description.
 - b. Recommended and limiting operational range.
 - c. Installation instructions including assembly, alignment, and adjustment procedures.
 - d. Operation instructions including start-up and shutdown procedures, and troubleshooting guide.
 - e. Lubrication and regular maintenance instructions.
 - f. Shop drawings.
 - g. Parts list with catalog numbers.
 - h. Performance curves.
- B. Quality Control Submittals:
1. A list of any and all instances where the equipment proposed deviates from these specifications.
 2. Names and addresses of the factory authorized service organization nearest to project site.
 3. Guarantee pump efficiency and NPSHr at the specified operating points.
 4. Upon approval of shop drawings, manufacturer shall provide certified copies of factory test reports for functional, performance and hydrostatic tests as specified.
 5. Upon approval of shop drawings, manufacturer shall provide printed installation instructions.

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. All equipment and accessories shall be properly protected during shipment such that no damage or deterioration shall occur between shipment and installation.
 1. Finished surfaces shall be protected by wooden blanks.
 2. Finished ferrous metal surfaces not painted shall be protected from corrosion.
 3. Each box and package shall be clearly marked with the contents and total weight.

- B. Factory assembled parts and components shall not be dismantled for shipment until permission is received in writing from the ENGINEER.
- C. Manufacturer shall provide any special storage and handling instructions.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Provide pumps with performance curves with constantly increasing head from maximum capacity to shut-off head.
- B. Pumps shall rotate counter-clockwise when viewed from above.
- C. Balancing: Pump assemblies shall be dynamically and statically balanced. Vibration at any point of pumps operation shall not exceed the upper limits of the Hydraulic Institute Standards.

2.2 PRODUCT AND MANUFACTURER:

- A. Weir Floway (Basis of Design):
 - 1. Model 16DKL/N, 2 Stage, 10.38-in impeller diameter
- B. Fairbanks Morse
- C. Flowserve
- D. Or Equal

2.3 SERVICE CONDITIONS AND PERFORMANCE

- A. See attached data sheets for service conditions and performance requirements.
- B. Pumps shall have capacity no less than 98% and no greater than 103% of the specified capacity at each of the total dynamic head operating conditions shown.

2.4 COMPONENTS

- A. Coatings:
 - 1. Exterior of discharge head and motor shall be painted desert color. Prepare surfaces to be painted per coating manufacturer's requirements.
 - a. Primer: 2 coats polyamidolamine epoxy, 4-6 mil thickness
 - 1) Series N69, Hi-Build Epoxoline II
 - 2) Or Equal
 - b. Polyurethane: 1 coat Aliphatic Acrylic Polyurethane designed for exterior weathering, abrasion and corrosion resistance, 2-3 mil thickness
 - 1) Series 73, Endura-Shield
 - 2) Or Equal
 - 2. All wetted ferrous metal surfaces, including interior and exterior of suction barrel, exterior of bowl assembly, interior and exterior of column, and interior of discharge head shall be coated with an ANSI/NSF STD 61 approved bonded epoxy, minimum

thickness 8-10 mils. Prepare surfaces to be painted per coating manufacturer's requirements.

a. Coatings:

- 1) Tnemec Pota-Pox Plus Series N140
- 2) Or Equal

B. Fasteners: Provide Type 316 stainless steel fasteners, bolts, nuts and washers conforming to ASTM A276 where exposed to liquid and where fasteners contact tapped holes.

C. Suction Flange:

1. Material: Fabricated steel conforming to ASTM A36 & A53.
2. Location: below grade on suction barrel.
3. Flange rating shall be ANSI 150# minimum.

D. Suction Barrel:

1. Fabricated steel conforming to ASTM A36 & A53.
2. Barrel shall have $\frac{1}{4}$ -inch minimum wall thickness.
3. Suitable for encapsulation in concrete with mortar conforming to AWWA C205.
4. Flanged mount for discharge head assembly designed to withstand 150% of maximum operating thrust loads.
5. Manufacturer shall be responsible for verification of barrel dimensions to provide acceptable hydraulic conditions at column inlet and minimal vibration per ANSI/HI 2.3.
6. Barrel shall include internal guide vanes to prevent fluid rotation.
7. Barrel shall include four (4) leveling bolts for field leveling. Leveling bolt assembly shall include steel angles and nuts welded to the bottom-exterior of the suction barrel with steel bolts, or other method as approved by ENGINEER.
8. At minimum, suction barrel shall be sized to accept one inch larger diameter bowls and one additional stage.
9. Provide one suction barrel per pump, plus suction barrel for future pump.

E. Suction Bell:

1. Material: ASTM A48 Class 30.
2. Internal vanes shall be provided.

F. Column:

1. Material: Fabricated steel conforming to ASTM A36.
2. Flanged connections shall be provided at column section, bowl, and discharge head connections.
3. Provide O-ring seals at all flange connections.
4. Column section length shall be five (5) ft maximum.
5. Align and support lineshaft bearings.
6. Column diameter:
 - a. Outside diameter shall match standard pipe outside diameters as specified in ANSI B36.10
 - b. Columns 6-inch in diameter and less shall be at least Schedule 40
 - c. Columns 8-inch to 16-inch shall be at least Schedule 30
7. The column pipe shall be sized such that the friction loss will not exceed 5 feet per 100 feet, based on the rated capacity of the pump.

G. Bowl Assembly:

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1. Bowls shall be cast iron conforming to ASTM A48, Class 30, with a minimum tensile strength of 30,000 psi.
 2. Interior of bowls shall be lined with porcelain enamel or abrasion resistant epoxy.
 3. Where specified, each bowl shall have thrust-balanced replaceable wear rings with side seal to prevent slippage.
 - a. Material shall be ASTM B505 aluminum bronze, composite, or stainless steel conforming to the requirements of API 610.
 4. Bolted flange connections shall be provided between bowls with O-ring seals.
 5. Bowl bearings shall be bronze conforming to ASTM B505, C93200
 6. Bowls shall be able to withstand the greater of twice the total head or one and a half times the shutoff head.
- H. Impellers:
1. Material: ASTM B584 C83800 bronze alloy.
 2. Enclosed or semi-open design.
 3. Securely fasten impellers to impeller shaft with Type 416 stainless steel tapered lock collets.
 4. Impellers shall be vertically adjustable using an adjustable spacer coupling accessible through the discharge head openings.
- I. Shaft
1. Material: 416 stainless steel conforming to ASTM 582
 2. Shaft sizing shall conform to ANSI/AWWA E101-88, and shall be of sufficient size to prevent excessive elongation and transmit required torque without distortion in both forward and reverse direction.
 3. Maximum combined shear stress shall not exceed 30% of the elastic limit in tension or be more than 18% of the ultimate tensile strength of the shaft material.
 4. Shaft shall have a first critical speed not less than 20% above maximum operating speed.
 5. A two-piece headshaft and solid intermediate line shaft shall be provided.
 6. Maximum section length shall be ten (10) feet.
 7. Minimum of two line shaft bearings shall be provided.
 8. Maximum spacing of bearing intervals shall be 5 feet.
 9. Line shaft couplings shall be ASTM 582 416 stainless steel, left-hand threaded type with perfect butt-fit. Couplings shall be designed with safety factor equal to 1.5 times the shaft safety factor.
 10. Shaft bearings shall be neoprene or bronze, lubricated by the pumped liquid.
- J. Shaft Seal:
1. Cartridge style mechanical seal with adjustable spacer coupling shall be provided in discharge head at terminus of lineshaft.
 2. Material:
 - a. Metal parts: 316 stainless steel.
 - b. Seal faces shall be tungsten carbide or sintered silicon carbide.
 - c. Elastomer bellows secondary seal.
 3. Manufacturer:
 - a. Environamics
 - b. Flowserve ISC Series
 - c. Crane
 - d. Or Equal
- K. Discharge Head Assembly:
1. Location: above grade

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2. Assembly shall be of sufficient design to support the entire weight of pump assembly and NEMA rated driver and transmit all loads to the foundation with minimum vibration.
 3. Material: Fabricated steel conforming to ASTM A36 & A53 or cast iron conforming to ASTM A48 C30.
 4. Discharge head natural frequency shall be elevated above maximum operating speed.
 5. Discharge flange rating shall conform to AWWA C207 for fabricated steel, or ANSI B16.1 Class D 150# minimum for cast iron.
 6. Openings shall be screened to prevent access to rotating equipment.
- L. Mounting Plates:
1. Manufacturer shall provide all supporting sole plates and fabricated steel base plates necessary to properly mount the equipment.
- M. Equipment Identification Plate: 16-gauge stainless steel with the following information at minimum:
1. Equipment number.
 2. Manufacturer's model and serial number.
 3. Rated capacity and discharge head.
 4. Speed.
- N. Motors
1. Motors shall be solid shaft, squirrel-cage induction motors meeting the requirements of NEMA MG 1.
 2. Motor manufacturer shall be ISO9000 certified.
 3. Where variable frequency drives are specified, motor shall be inverter duty.
 4. Motors shall be adequately sized to prevent overload above nameplate horsepower at maximum pump brake horsepower.
 5. Motors shall have the following guaranteed minimum efficiencies at full load as determined by IEEE 112-B:
 - a. 100 hp and above: 92%
 6. Motors shall have minimum power factor of 87%.
 7. Totally Enclosed Fan-Cooled enclosures shall be provided.
 8. Provide thrust bearings with a minimum L-10 life of 30,000 hours, as defined by AGMA, at the worst operating condition.
 - a. Minimum L-10 bearing life at normal operating conditions shall be 60,000 hours.
 9. Manufacturer's recommended bearing lubrication shall be provided.
 10. Where specified motors shall be provided with normally closed thermostat switches.
 - a. Switch shall shutdown the motor upon exceedance of the motor's maximum temperature rating.
 11. Where bearing thermostat switches are specified, motor and bearing thermostat contacts shall be wired in series and leads shall be wired to the motor terminal box.
 12. Where specified motors shall be provided with 120V single phase space heaters wired to a terminal box.
 13. Where specified motors shall have a vibration switch with automatic alarm and shutdown limits.
 - a. Provide adjustable time delay to prevent nuisance trips.
 14. Provide oversized terminal box with terminal for connection of equipment grounding wire.
 15. Provide stainless steel nameplate with the following information, at minimum:
 - a. Manufacturer's name, make, and serial number
 - b. Type
 - c. Voltage

- d. Frame
- e. Insulation
- f. Class
- g. HP
- h. Full load amps
- i. RPM

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Factory TestS: Performed by Manufacturer in the presence of ENGINEER or OWNER, per Quality Assurance Section above.
- B. Manufacturer's representative shall inspect and approve the installation before operation.
- C. Installation Test: Performed by manufacturer's representative in the presence of ENGINEER or OWNER
 - 1. Functional test complete assemblies for proper alignment, connection, and operation.
 - 2. Vibration Test: Results shall not exceed Hydraulic Institute Standards recommendations.
 - a. Test from shut-off head to maximum capacity.
 - b. Units exceeding the vibration limit recommendations of the Hydraulic Institute Standards shall be adjusted or modified as necessary. Units which can not meet Hydraulic Institute Standards shall be replaced.
 - 3. Installation Performance Test shall be conducted in conformance with Hydraulic Institute Standards ANSI/HI 2.6-2000. Conformance with performance requirements shall be verified.
 - 4. Monitor bearing and motor temperatures during all tests and correct overheating if necessary.

3.2 MANUFACTURERS SERVICES

- A. Pump manufacturer shall provide the services of an authorized service representative for not less than four (4) days, for the following:
 - 1. One (1) day for installation assistance.
 - 2. Two (2) days for inspection of installation, start-up instruction, performance testing supervision, and adjustment assistance.
 - 3. One (1) day for training of OWNER's personnel.

+ + END OF SECTION + +

Section 11212
Pump and Drive Data Sheet

Project	West Side Tank and Pump Station Project
Equipment Numbers	WD24_PUMP_54100, _54200, _54300, _54400
Equipment Location	Booster Pump Station
Drive Description:	
Drive Type	Pumps -100 & -300 VFD Pumps -200 & -400 Soft Starter (RVSS)
Motor	3 PH, 460V, 60 HZ
Motor Horsepower	250 hp
Pump Description:	
Pump Type	Canned Vertical Turbine
Bowl Size	16 in
Number of Stages	2, minimum
Suction Can Diameter	30 in
Suction Flange Size	24 in
Discharge Size	16 in
Operating Conditions:	
Liquid Pumped	Potable water
Temperature	50 to 80 degrees F, 60 deg average
Site Altitude	100 ft
Pump Operating Conditions:	
Pump Rated Speed	1770 rpm
Minimum NPSHa	33.8 ft
Minimum Continuous Stable Flow	925 gpm
Minimum Shutoff Head	320 ft
Pump Design Points:	
1 st Operating Point:	
Capacity (gpm)	3800 gpm
Total Dynamic Head (ft)	170 ft
Minimum Efficiency	80%
2 nd Operating Point:	
Capacity (gpm)	3000 gpm
Total Dynamic Head (ft)	200 ft
Minimum Efficiency	78%
3 rd Operating Point:	
Capacity (gpm)	1000 gpm
Total Dynamic Head (ft)	250 ft
Minimum Efficiency	35%
Appurtenances:	
Motor Winding Temperature Switch	Yes
Bearing Thermostat Switch	No
Vibration Transmitter	Yes
Wear Rings	Yes

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SECTION 11268

RESERVOIR HYDRODYNAMIC MIXING SYSTEM

PART 1 - GENERAL

1.1 DESCRIPTION

- A. The Hydrodynamic Mixing System (HMS) is defined as a supplemental system installed within a potable water storage reservoir which passively utilizes the energy provided by the inlet water supply (via pumped or gravity head) and generates a sufficient inlet momentum to achieve a complete homogeneous blending of the water volume within the reservoir with the inlet supply flow. Determination of Complete Homogeneous Blending shall be defined by the modeling requirements and supporting hydraulic analysis as conducted by each individual manufacturer for their specific system configuration as defined within these specifications. System submittals not providing this validation shall not be considered as a viable Hydrodynamic Mixing System (HMS) and shall not be accepted as an equivalent to this system specification.
- B. The specifications in this section include all components of the Reservoir Hydrodynamic Mixing System (HMS) consisting of flow manifold equipped with variable orifice duckbill inlet nozzles that are certified. The HMS manufacturer shall be responsible for designing the system in accordance with the hydrodynamic criteria defined within these specifications and submit design calculations verifying compliance in accordance with the submittal requirements. The following is a description of the Hydrodynamic Mixing System.
- C. All modeling and hydraulic and mixing calculations pertaining to the HMS shall originate from the duckbill valve manufacturer. Modeling and calculations provided by parties other than the duckbill valve manufacturer are not allowed.
- D. The complete Hydrodynamic Mixing System shall be supplied by the variable orifice nozzle manufacturer to maintain single source responsibility for the system. The complete system shall be defined as all piping and appurtenances within the tank downstream of the tank penetration. Appurtenances include pipe, fittings, horizontal and vertical pipe supports, expansion joints, variable orifice duckbill check valves, and any other equipment specified within this section of the specifications. Approved manufacturer is Tideflex Technologies, Carnegie, PA 15106.
- E. The following describes the design principles of the Hydrodynamic Mixing System and the validation of its effectiveness:
 - 1. To not have any horizontal piping that requires bracing to the tank shell other than at the bottom of the reservoir.
 - 2. To be passive operating and not require any outside energy source.
 - 3. To utilize the existing differential pressure between distribution system pressure and tank head to fill the reservoir thru the inlet nozzles.
 - 4. To achieve complete mixing via multiple turbulent inlet jets (Jet-induced mixing).
 - 5. To utilize variable orifice inlet nozzles that provides a non-linear jet velocity versus flow characteristic. This maximizes the inlet momentum at all flow rates. The inlet momentum is the kinetic energy solely responsible for mixing. This also

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ensures the rise height of negatively buoyant inlet jets will be maximized when the inlet water is colder than the tank water.

6. To have less than ten (10) inlet ports.
7. To have inlet ports that discharge an elliptically shaped jet that provides faster mixing and dilution of the inlet water into the tank water.
8. To have a configuration based on Computational Fluid Dynamics (CFD) modeling, conducted by the manufacturer, of a similar configuration in the same tank style.
9. To have multiple sampling studies conducted by water utilities that have conducted "before" and "after" spatial sampling of disinfectant residual and/or temperature that have proven the effectiveness of the HMS. Data can be submitted based upon the request of the engineer.

1.2 SUBMITTALS

A. Independent CFD Modeling Validation

1. The mixing system designer/supplier must supply data or report from at least one project where an independent company conducted CFD modeling on their mixing system design and the modeling results verified the design achieved complete mixing.

B. Full Scale Tracer Study Validation

1. The mixing system designer/supplier must supply data or report from at least one project where a full scale tracer study using calcium chloride was conducted on a circular reservoir and the tracer study results verified the mixing system design achieved complete mixing.
2. The mixing system designer/supplier must supply data or report from at least one project where a full scale tracer study using calcium chloride was conducted on an elevated tank and the tracer study results verified the mixing system design achieved complete mixing.

C. Tideflex Inlet Nozzle and Waterflex Outlet Valve Testing and Validation

1. Verification of independent hydraulic testing to determine headloss and jet velocity characteristics on a minimum of eight (8) sizes of duckbill valves ranging from 2" through 48". The testing must include multiple constructions (stiffness) within each size and must have been conducted for free discharge (discharge to atmosphere) and submerged conditions.
2. Verification of Independent Laboratory Testing for Manufacturing Consistency - the duckbill valve manufacturer shall provide summary documentation of a report conducted by an Independent Laboratory for hydraulic testing where multiple duckbill valves (at least four) of the same size and construction (stiffness) were tested to validate the submitted headloss characteristics and to prove the repeatability and consistency of the manufacturing process to produce the same hydraulic characteristics.
3. Report of independent testing that studied the flow distribution characteristics of duckbill valves installed on multiport manifolds. The manufacturer must have been in the business of manufacturing duckbill valves at the time the report was published.
4. Verification of Finite Element Analysis (FEA) of duckbill valves. The duckbill valve manufacturer shall provide summary documentation of Finite Element Analysis modeling on representative duckbill nozzle sizes to determine deflection, stress and strain characteristics under various load conditions. Modeling must have been done for flowing conditions (positive differential pressure) and reverse differential pressure.

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5. Verification of independent hydraulic testing to determine headloss characteristics on a minimum of three (3) sizes of perforated disc/elastomeric membrane check valves ranging from 6" through 36". Testing must have been conducted with and without the membrane installed. At least two (2) sizes shall have tested two (2) different membrane thicknesses.
 6. Verification of Finite Element Analysis (FEA) modeling on a perforated disc/elastomeric membrane check valve to determine stress and deflection characteristics under reverse differential pressure.
- D. Validation of Long-term performance
1. The mixing system designer/supplier must supply at least one inspection report showing proper operation of, and no deterioration of, the duckbill valves after being in service in a water storage tank mixing application for a minimum of 10 years.
- E. ANSI/NSF 61 Certification
1. Copy of the Certified listing for the valves used in the Hydraulic Mixing System (HMS).
 2. The valves themselves must be NSF61 certified, not just the elastomer used in construction of the valves. NSF61 approved/certified materials will not be accepted in lieu of valve certification.
 3. The NSF61 Certification for the valves must be for a minimum volume of 2,000 gallons. Valves with NSF61 Certification for minimum volume of greater than 2,000 gallons are not acceptable.
- F. Test Report on Elastomer Exposure to Chlorine and Chloramine
1. Copy of test report from an accredited independent laboratory that confirmed there is no degradation in the elastomer when exposed to chlorine and chloramine per the ASTM D471-98 "Standard Test Method for Rubber Property – Effect of Liquids."
- G. System Installation Drawings
1. The HMS manufacturer shall be responsible for providing engineering installation drawings of the complete manifold piping system as supplied by the manufacturer. These drawings shall include plan view piping arrangement, sections and elevations as required, support bracket installation details, duckbill nozzle orientation details, and all dimensions required for locating the system within the specified dimensions of the tank.
- H. Design Calculations
1. All Design Calculations, curves, and reference information listed below must originate and be submitted by the duckbill valve manufacturer. Calculations, curves, and reference information provided by contractors relating to the HMS are not allowed. The duckbill valve manufacturer must include within the submittal package the following design calculations, curves, and reference information:
 2. Calculations showing the fill time required, under isothermal conditions, for the HMS system to achieve complete mix of the reservoir volume at minimum, average and peak fill rates. Complete mixing defined as 95% homogenous solution. The theory and equations used in calculating the mixing times must be from a published AWWA reference manual or paper. The reference document(s) must be submitted with the equations and calculations.
 - a. Calculations showing the water level drawdown required to achieve complete mixing on the fill cycles at minimum, average, and peak flow rates.

- b. Calculations of average storage tank water age for both fill-then-draw, and simultaneous fill and draw scenarios. Theory used in calculating water age must be submitted with the calculations.
- c. A representative Computational Fluid Dynamics (CFD) model evaluation of the proposed HMS system configuration applied within a reservoir of similar geometry. Model output documentation shall include all design variables applied for the simulation, plot of the 3-D geometry showing the mesh definition, velocity magnitude vector and contour plots at different cross-sections throughout the water volume, simulated tracer animations showing the spatial and temporal distribution of inlet water in real time during the fill cycle.
- d. Hydraulic calculations showing the resulting jet velocities of each inlet nozzle at minimum, average, and peak fill rates.
- e. Hydraulic calculations showing the flow distribution among all inlet ports at minimum, average, and peak fill rates.
- f. Manifold hydraulic calculations showing the total headloss of the HMS at minimum, average, and peak fill and draw rates. Headloss shall include all minor losses and headloss of nozzles and outlet check valves.
- g. Hydraulic curves showing thrust vs. flow for the inlet nozzles.
- h. Hydraulic curves for each outlet check valves showing headloss vs. flow.
- i. Calculations showing the terminal rise height of the jets that discharge at an angle above horizontal. The terminal rise height shall be calculated assuming 10°F and 20°F colder inlet water and calculated at minimum, average and peak fill rates. The theory and equations used to calculate the terminal rise height shall be included.
- j. Hydraulic curves for each inlet nozzle of Densimetric Froude number vs. flow
- k. If the calculations and supporting data provided do not show compliance with the hydrodynamic requirements of the system as interpreted by the Engineer or Owner then the submittal shall be rejected.

1.3 INSTALLATION, OPERATION AND MAINTENANCE MANUALS

- A. The manuals shall be in the following format and include the listed required information as a minimum:
 - 1. Enclosed in a 3-ring binder with project title and system designation shown on the front cover and side binder.
 - 2. Table of contents
 - 3. Copy of design calculations for the manifold system as defined in the previous section.
 - 4. Copy of complete set of the installation plans.
 - 5. Copy of Certified Listing for the valves
 - 6. Parts and equipment list with specification numbers for ordering of replacement parts.
 - 7. Product specification sheets for nozzles, expansion joints, concrete anchors, and any other specialized items supplied with the system.
 - 8. Installation guidelines for the HMS manifold system.
 - 9. Operational procedures for the HMS manifold system.
 - 10. Guidelines for repair of system components.
 - 11. Schedule for suggested periodic maintenance of the manifold system.

1.4 DELIVERY, STORAGE, AND MATERIAL HANDLING

- A. Individual nozzles shall be packaged separately from the piping equipment.

- B. All flanges shall be protected by using plastic inserts or plank wood, pipe sections are to be fully supported to prevent pipe deflection or damage to fittings or connections.
- C. All equipment shall be shipped on pallets capable of fully supporting the pipe sections across their entire length. Pallets should be accessible for fork lift transport or strap and hoist means without causing any load to the pipe equipment.
- D. All stainless steel components shall be stored separately away from any carbon steel components or other materials that could stain or deface the stainless steel finish from run-off of oxidized ferrous materials.
- E. All pipe equipment should be covered and stored in areas free from contact with construction site sediment erosion to prevent accumulation of materials within the pipe and fittings.
- F. Duckbill nozzles should be protected from contact with rigid objects during handling and storage. The contractor shall be responsible for replacing any duckbill nozzles or elastomeric components that are damaged after arrival on the site through installation and start-up of the system.

PART 2 - PRODUCTS

2.1 VARIABLE ORIFICE DUCKBILL INLET NOZZLES

- A. Inlet ports/nozzles shall be duckbill-style check valves that allow fluid to enter the reservoir during fill cycles and prevent flow in the reverse direction through the nozzle during draw periods. Inlet ports/nozzles may not be fixed-diameter ports or pipes.
- B. Inlet ports/nozzles shall have a variable diameter versus flow hydraulic profile that provides a non-linear jet velocity versus flow characteristic and a linear headloss versus flow characteristic. The hydraulic characteristics of the duckbill valves shall be defined by "Hydraulic Code".
- C. The inlet ports/nozzles shall discharge an elliptically shaped jet. The nozzle must have been modeled by an independent laboratory using Laser Induced Fluorescence (LIF).
- D. Manufacturer shall have conducted independent hydraulic testing to determine headloss and jet velocity characteristics on a minimum of eight (8) sizes of duckbill valves ranging from 2" through 48". The testing must include multiple constructions (stiffness) within each size and must have been conducted for free discharge (discharge to atmosphere) and submerged conditions.
- E. Manufacturer shall have conducted an independent hydraulic test where multiple valves (at least four) of the same size and construction (stiffness) were tested to validate the submitted headloss characteristics and to prove the repeatability of the manufacturing process to produce the same hydraulic characteristics.
- F. Manufacturer shall have conducted independent hydraulic testing to study the flow distribution characteristics of duckbill valves installed on multiport manifolds.

- G. Manufacturer to have conducted Finite Element Analysis (FEA) on various duckbill valves to determine deflection, stress, and strain characteristics under various load conditions. Modeling must have been done for flowing conditions (positive differential pressure) and reverse differential pressure.
- H. Manufacturer must have conducted in-house backpressure testing on duckbill valves ranging from ¾" to 48".
- I. Manufacturer shall have at least fifteen (15) years experience in the manufacturing of "duckbill" style elastomeric valves.
- J. Manufacturer must have duckbill valves installed on manifold piping systems in at least 100 distribution system reservoirs.
- K. Manufacturer must have representative inspection videos showing the duckbill valves discharging water into the reservoir during an initial fill (unsubmerged). Manufacturer must also have representative underwater inspection videos showing the operation of the valves when submerged. Representative videos can be submitted upon request from the engineer.
- L. The duckbill style nozzles shall be one-piece elastomer matrix with internal fabric reinforcing designed to produce the required discharge velocity and minimum headloss requirements as stipulated in the Submittals section. The flange portion shall be an integral portion of the nozzle with fabric reinforcing spanning across the joint between the flange and nozzle body.
- M. The elastomer used in construction of the duckbill valves must have been tested by an accredited independent laboratory that confirmed there is no degradation in the elastomer when exposed to chlorine and chloramine per the ASTM D471-98 "Standard Test Method for Rubber Property – Effect of Liquids."
- N. The manufacturer's name, plant location, serial number and product part number which designates nozzle size, material and construction specifications shall be bonded onto the surface of the nozzle.

2.2 STAINLESS STEEL PIPE AND FITTINGS

- A. Stainless steel pipe and fittings shall conform to the associated standards.
- B. Dimensions for stainless steel fittings shall conform to AWWA C110, unless otherwise specified.
- C. Piping shall be Schedule 10s stainless steel 304L fabricated from material per ASTM-A240.
- D. All flanges shall be plate ring flanges. Flange drilling pattern shall be in accordance with ANSI B16.1/B16.5 standards.
- E. Ring flanges shall be continuously welded on both sides.
- F. All shop welds shall be manually scrubbed or brushed with non-metallic pads or stainless steel wire brushes to remove weld discoloration. Welds to be chemically passivated with nitric or citric acid.

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- G. Field welding of stainless steel pipe and fittings will not be allowed unless approved by the Engineer.

2.3 FLANGE GASKETS

- A. Flange gaskets shall be full-faced and shall be in accordance with ASTM D1330.
- B. Flange gasket drilling pattern shall conform to ANSI B16.1/B16.5.
- C. Flange gaskets shall be 1/8" thick.
- D. Gasket material shall be EPDM.

2.4 FASTENERS

- A. Hex head bolts and nuts shall be stainless steel 316 conforming to ANSI/ASME B18.2.1 and ANSI/ASME B18.2.2.

2.5 PIPE SUPPORTS

- A. All components of the bracket assembly shall be stainless steel 304 in accordance with the associated standards.
 - 1. The bracket assemblies shall consist of four components:
 - 2. A base plate. For concrete tanks, the base plate will have four thru holes for expansion anchors.
 - 3. A top-works weldment that consists of structural channel and angle iron. The TMS piping shall rest on the angle iron. The angle iron has predrilled holes for the U-bolt.
 - 4. U-bolt with four hex nuts.
 - 5. An 1/8" thick EPDM strip with a length equivalent to the circumference of the pipe. The strip shall be placed between the pipe and the angle iron and U-bolt.
- B. The channel of the top-works weldment shall be field fit and modified to the required length. The channel shall then be field welded to the base plate.
- C. For concrete tanks, the support shall be anchored to the concrete floor with stud type expansion anchors, the pull-out rating of the combined anchors shall be a minimum of 10 times greater than the static weight of the vertical pipe section.

2.6 DRAIN

- A. Provide a 1 inch drain on the inlet pipe 4-inches above where the TMS attaches to the tank floor. The drain shall have a ball corporation valve.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Installation of the manifold system shall be in accordance with the installation plans and guidelines provided by the HMS manufacturer and as specified in the installation section of the IOM manual. Refer to section on Submittals for quantities and delivery schedules of the documents.

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3.2 START-UP AND TESTING PROCEDURES

- A. The TMS manufacturer shall provide one (1) day start-up services by a factory representative to verify that the system has been installed in accordance with the design specifications and requirements listed within this section.

3.3 START-UP FLOW TESTING

- A. Following installation of the complete manifold piping system, the contractor shall open the upstream isolation valve to allow flow into the tank through the manifold system. The isolation valve must be opened slowly to prevent surge or over-pressurization of the manifold system. The isolation valve must be fully opened to inspect the flow characteristics of the manifold system.
- B. The contractor and factory representative shall visually inspect the entire piping system for leakage.
- C. The contractor and factory representative shall visually inspect all of the inlet nozzles to ensure flow is being discharged into the tank through all nozzles.

3.4 SPARE PARTS

- A. Spare parts are not required, unless otherwise specified.

3.5 WARRANTY

- A. The complete manifold piping system shall be supplied by the HMS manufacturer to maintain single source responsibility for the system. The complete system shall be defined as all piping and appurtenances within the tank downstream of the tank penetration. Appurtenances include pipe, fittings, horizontal and vertical pipe supports, expansion joints, duckbill valves, and any other equipment specified within this section of the specifications.
- B. All piping, pipe support brackets, joint connections, expansion joints, and anchors shall be warranted by the HMS manufacturer against failure under design conditions for a period on one (1) year from the date of final installation approval by the Engineer.
- C. Inlet nozzles shall be warranted by the manufacturer against failure under design operating conditions for a period of one (1) year from the date of final installation approval by the Engineer. Elastomer components damaged because of maintenance activities, foreign debris, or excessive exposure to direct ultraviolet and thermal radiation shall be excluded warranted coverage.

+ + END OF SECTION + +

SECTION 11405

CHEMICAL METERING PUMP SYSTEM

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Work Included: This specification covers the supply and testing of completely functional, skid-mounted chemical metering pump systems. The chemical metering pump system shall include skid assembly containing chemical metering pumps, integral electric motors, controls, integral variable speed drives, valves, meters, control panels and all necessary piping, fittings, supports and accessories as shown on the Drawings and specified herein. The chemical metering pump system supplier shall be responsible for supplying all components of the skid-mounted chemical metering pump system.

1.2 QUALITY ASSURANCE

- A. A single metering pump system supplier shall be responsible for the assembly, supply and coordination of all equipment and appurtenances specified herein.
- B. System supplier shall provide reference list of no less than three installations where fully integrated chemical metering pump systems were provided.
- C. Provide a factory operational and performance test on the pre-assembled system and documentation of results prior to shipment.
- D. Provide operational and performance field test.
- E. Warranty: The chemical metering pump system supplier shall provide a two-year warranty on the metering pump mechanical drive and a one-year warranty on the liquid end, pump accessories, and the skid-mounted system.

1.3 SUBMITTALS

- A. Submittals shall be in accordance with Section 01330, Submittal Procedures.
- B. Shop Drawings:
 - 1. Detailed metering pump diagram
 - 2. Control and power wiring diagrams
 - 3. Enclosure dimensions
 - 4. Connection point locations and sizes
 - 5. Skid mounting details
 - 6. Piping and fittings details
 - 7. Control panel dimensions, connection details, and wiring diagrams
 - 8. Location of all specified appurtenances
- C. Product Data:
 - 1. Complete catalog information, descriptive literature, and specifications, including but not limited to the following:
 - a. Total assembly weight
 - b. Materials of construction

- 1) Confirmation that all wetted parts are compatible with specified service chemical
 - c. Control system details
 - d. Appurtenance details
 - e. Hydraulic calculations confirming pump sizing and range for service conditions
 - f. Documentation of accuracy over flowrate range specified herein
 2. Recommended spare parts list
 3. Complete motor nameplate data
 4. Factory finish system
 5. Complete O&M manual for each pump model and control system
- D. Quality Assurance Submittals
1. Factory operational and performance testing results
 2. System Suppliers certificate of compliance with these specifications

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. System supplier shall provide special shipping, handling, and storage instructions.

PART 2 - PRODUCTS

2.1 PRODUCT AND SYSTEM SUPPLIER: PROVIDE:

- A. BRAVO pre-engineered systems manufactured and marketed by SEEPEX INC.
- B. Or Equal

2.2 SERVICE CONDITIONS AND PERFORMANCE

- A. Sodium Hypochlorite Metering Pump System
1. Location: As shown on Drawings
 2. Equipment Identification Numbers:
 - a. Sodium Hypochlorite Pump No. 1: WD23_PUMP_54101
 - b. Sodium Hypochlorite Pump No. 2: WD23_PUMP_54102
 3. Service Chemical: 12.5% Sodium Hypochlorite
 - a. Specific Gravity: 1.2
 - b. Temperature: 50 to 90 deg F
 4. Flowrate Range:
 - a. 0.5 to 5.0 gallons per hour (gph)
 5. Rated Pressure: 100 psig
 6. Minimum NPSHa: 33 FT
 7. Piping/pump arrangement: See Drawings.

2.3 SYSTEM ASSEMBLY

- A. System Design:
1. Chemical Metering Pump System supplier shall provide completely assembled, skid-mounted Chemical Metering Pump Systems and include the following features:
 - a. Pumps shall be vertically mounted with pump drives and electronics located above the piping.
 - b. Shall be scalable to incorporate 1, 2, or 3 pumps as required.
 - c. Shall include removable drip pans with threaded drains (1/2" FNPT threaded)

- d. Specifically engineered to achieve the required structural strength using vacuum molded HWMPE, formed HWMPE sheet material and powder coated structural stainless-steel angle for critical support areas.
- e. The entire pump system shall be serviceable from the front of the system.
- f. Piping shall be secured to the system frame using KiwiBlock pipe supports or equal. Pipe Mounting system to incorporate the following features:
 - 1) Polypropylene mounting blocks with minimum tensile strength of 3800 psi and must be UV resistant.
 - 2) Blocks secured to system frame using two three #8-10 self-tapping screws constructed of stainless steel.
 - 3) Piping shall be secured to the piping brackets using two tie wraps each rated for 300 lbs. Tie wraps shall be cut using tie wrap gun to avoid sharp edges that pose a safety hazard.
 - 4) Pipe securing system shall not require access to the rear to replace or remove parts.
 - 5) Pipe mounting system shall incorporate UR rating to be suitable for securing electrical components in accordance with UL recommendations.
- 2. The Chemical Metering Pump Systems shall not include any loose-shipped parts. It shall be completely shop or factory assembled and shall require no field assembly other than field connections of piping and wire.
- 3. The Chemical Metering Pump System\ shall be designed in accordance with the Drawings, providing the shown inlet and outlet connections, features and appurtenances.

2.4 COMPONENTS

- A. General: All wetted materials shall be specifically selected for resistance to specified service chemical.
- B. Piping: CPVC conforming to ASTM D2846
 - 1. The piping of the feed system shall be constructed of schedule 80, solvent welded CPVC.
 - 2. All plumbing on the system must be hard piping.
 - 3. All fittings shall be socket welded and not threaded to prevent leaks
 - 4. Piping shall be in such a manner that unions will allow for all major components to be removed without the entire pipe assembly being removed
- C. Solvent welded connections:
 - 1. Squarely cut, deburred, externally beveled ends (10-15°)
 - 2. Connection shall have maximum depth into the socket portion of the welded joint.
 - 3. Pipe section must be solvent welded radially and axially against socket shoulder for maximum joint strength.
 - 4. Components to be rotated a minimum of 90° during insertion.
 - 5. Solvent welded connections shall be chemically prepared using Weld-On P-75 "Wet R' Dry" Primer or equal
 - 6. Joints shall be solvent welded within 30 seconds of primer application if not pipe must be re-primed prior to solvent welding.
 - 7. Joint pieces shall still be "wet" from the primer when cement is applied.
- D. Calibration column:
 - 1. Provide calibration column on the common suction header for each pump skid assembly.

2. Column shall be sized to run a minimum of 30 seconds at maximum flow rate.
 3. If the prescribed size of the calibration column exceeds 2,000 mL, a 2,000 mL column will be provided.
 4. The Calibration column assembly shall include a ball valve to isolate the calibration column from the chemical supply and a ball valve to isolate the chemical supply tank from the suction line.
 5. The Calibration column shall be constructed of clear and gray PVC and include sealed end caps.
 6. Provide threaded connection at top of column for connection to common vent.
 7. Pump system must include a means to fill calibration column when the tank level falls below the level of the calibration column.
 - a. In these instances, the pump may be used to actively fill the calibration column using pre-plumbed valves and piping.
 8. Calibration columns shall be sealed as manufactured by Griffco Valve or equal
- E. Ball valves: Provide ball valves for all shut-off, isolation, and flow control applications.
1. Features:
 - a. CPVC
 - b. True union integral union
 - c. FPM O-ring seals
 - d. Ball shall be drilled to relieve pressure from off-gassing
 2. Manufactures:
 - a. ASAHI Type 21 (true union)
 - b. Or Equal
- F. Metering Pumps:
1. WD23_PUMP_54101, WD23_PUMP_54102: Self-priming, positive displacement, progressing cavity type.
 - a. The system shall be a duplex configuration constructed with pumps in a Duty/Duty configuration.
 - b. The pumps shall be of the compact, close-coupled design that incorporates SEEPEX IMP metering pump controller or equal.
 - c. The integral pump controller shall be capable of varying pump performance throughout the entire operating range. The metering pump controller shall have IP65/ NEMA 4X for indoor use and include the following features:
 - 1) The metering pump controller shall be designed to work solely with the pump and motor to deliver up to 350:1 speed performance and flow performance up to 1000:1 without requiring encoders or blower cooling.
 - 2) Metering pump controller shall run on single phase power at 120 VAC or 230 VAC at 48-62 Hz. Frequency and voltage capability to be separate.
 - 3) The integral metering pump motor shall have IP55 certification and controller and motor shall be designed to maintain a constant torque of 8.75 lb. ft. from 20 to 600 RPM and constant power (up to 1.0 hp) from 600-1,800 RPM. The drive shall be capable of 5.0 lb. ft. at 10 RPM and 3.0 lb. ft. at 5 RPM.
 - 4) The metering pump controller system shall be able to produce a minimum of 18 lb. ft. of starting torque for a minimum of 15 seconds and 12 lb. ft. for 60 seconds. The drive shall be capable of operating at ambient temperatures of 50 to 90 degrees Fahrenheit without requiring derating.
 2. Pumping Equipment:
 - a. Rotor and Stator: Each pump shall be a minimum single-staged design employing a single helix rotor operating in a double helix stator.
 - 1) Convolutions configured to form a cavity between the rotor and stator

- 2) Cavity shall progress from the pump's inlet to discharge port with operation of the rotor
 - 3) A seal preventing leakage from the discharge back to the inlet shall be formed by the fit between the rotor and stator at the point of contact
 - 4) Stator shall be molded with a seal integral to the stator elastomer
 - 5) Separate gaskets or "O" rings are not permitted to form the seal
 - b. Rotor and Drive train: Shall be warranted for three years from the manufacturer regarding materials and workmanship
 - c. Joints: Each pump rotor shall be driven through a positively sealed and lubricated pin joint.
 - 1) Pin constructed of high speed steel, air hardened to 64 HRC
 - 2) Grease-lubricated joint with a high temperature (450° F)
 - 3) PTFE filled synthetic grease
 - 4) Covered with elastomeric sleeve
 - 5) Positively sealed with hose clamps
 - 6) Constructed of Hastelloy C, PVDF or 316ss
 - d. Casing: NPT connection shall be provided at both the inlet and discharge ports of the pump.
 - 1) 1" FNPT suction side
 - 2) ½" discharge side FNPT
 - 3) Casing constructed of CPVC
 - e. Bearings: each pump shall be provided with oil lubricated thrust and radial bearings designed for all loads.
 - f. Shaft seal: shaft seal be sealed using single-acting mechanical seal with atmospheric quench or double acting mechanical seals.
 - 1) Solid shaft through mechanical seal area
 - 2) Shaft shall be a two-part design allowing for removal of mechanical seal and all other wetted tool rotating parts without requiring disassembly of pump or gear motor bearings
 - 3) Silicon carbide faced seals, metal parts and elastomers to be compatible with sodium hypochlorite.
3. Features:
- a. The piping system must contain a vent for each pump or pump head with the following features:
 - 1) Vent must be located within 12" of the pump inlet
 - 2) Incorporate a minimum 2° angle
 - 3) Capable of being isolated to permit suction lift conditions
 - b. Pumps shall incorporate a run dry protection sensor to protect pump from running dry in event of inadequate chemical supply and include the following features:
 - 1) Integral drive and sensor shall be designed to work in coordination
 - 2) Factory tested to stop metering pump controller when there is fluid loss
 - 3) Universal sensor shall be compatible with Sodium Hypochlorite
 - 4) Sensor shall be compatible with conductive and non-conductive chemicals
4. Products:
- a. WD23_PUMP_54101, WD23_PUMP_54102:
 - 1) SEEPEX Series MD with NSF61 certification
 - 2) Or equal
- G. Pump Suction Side:
1. The suction lines on the feed system shall be designed with the following features:
 - a. Located as low as possible on the chemical feed system
 - b. Minimum 1" pipe size
 - c. Incorporate a fully ported ball valve

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- d. Valve shall be able to be mounted on either side of the system
- 2. The suction inlet shall incorporate a ½" standpipe with the following features:
 - a. Isolation valve to purge entrapped vapor
 - b. Vapor shall be routed back to the top of the day tank during flood suction operation
 - c. Negate frictional losses associated with the flow in the piping from the day tank to skid inlet
 - d. Valve shall be able to be closed when suction lift is required
- H. Pump discharge side:
 - 1. The discharge lines terminating at the skid from each pump shall be ½" socketed union. Placement on feed system shall be exiting the top of the feed system.
 - 2. Discharge line to be plumbed so that an external relief valve discharges back to suction line.
 - 3. Line from pressure relief valve and back to suction side must include a section of clear PVC.
 - 4. Each discharge line will include a 160 psig gauge with a minimum of 2-1/2" face diameter and include the following features:
 - a) Liquid filled type with glycerin filled gauge protector
 - b) Polypropylene non-wetted parts
 - c) CPVC/PTFE wetted parts
 - d) Diaphragm separating wetted parts and non-wetted parts
 - e) Minimum full-scale accuracy of 1.5%
 - f) Gauge shall be OBS-M series by Trufo® or equal
- I. Pressure Gauges and Isolators: A pressure gauge and isolator shall be provided for the discharge line of each pump.
 - 1. Constructed of 316ss, CPVC, polypropylene and PTFE
 - 2. Scale of 0-160 psig, display pressure in psig
 - 3. Must be isolated from product being pumped
 - 4. Glycerin filled gauge protector constructed of CPVC/Polypropylene
 - 5. Minimum 2-1/2" face
 - 6. OBS-M Series by Truflo® or equal
- J. Pressure Relief Valve: Provide adjustable pressure relief valve for each pump discharge. The valve, gauge, and gauge isolator shall all be located prior to any pump isolation valves.
 - 1. Factory preset at 125 psig
 - 2. Adjustable from 10-150 psig
 - 3. Body constructed of solid CPVC
 - 4. ½" socketed connections
 - 5. Valve top constructed of Noryl and shall not come in contact with process fluid
 - 6. Two separate ports
 - 7. Maximum pressure rating of 350 psig
 - 8. Opening set point adjustable using hand tools
 - 9. Capable of bypassing 300 US GPH minimum
 - 10. Union installed on both sides
 - 11. Valve shall be ½" 2-port M Series as provided by Griffco Valve Inc. or equal
- K. Equipment Identification: Provide stainless steel plate with ¼-inch die-stamped equipment identification numbers mounted in a visible location.

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- L. Lifting lugs: Provide for equipment weighing over 100 pounds.
- M. Anchor Bolts: Provide all anchor bolts necessary for proper installation of the metering pump system frame or rack.
 - 1. All metals shall be Type 316 stainless steel
 - 2. Sized by equipment manufacturer
- N. Skid-Mount: Each Chemical Metering Pump System shall be completely assembled, calibrated, tested mounted and shipped on a single skid.
 - 1. Components to be mounted include metering pumps, piping, valves, and all piping appurtenances specified herein. Vertical back panels and frame-mounted enclosures shall be provided as required to fully support all equipment and appurtenances.
 - 2. Forklift truck cut-outs shall be provided.
 - 3. The strength of the skid and supporting frame shall be suitable for shipping, offloading, installation and long-term support of the metering pumps.
 - 4. Frame or rack shall have accommodations for concrete floor mounting.
 - 5. No bare metal parts shall be allowed.

2.5 INTEGRATED SYSTEM CONTROLS

- A. The pre-packaged chemical feed system shall be complete with an advanced multi-pump process controller with the following features:
 - 1. Color touch screen operator interface that measures 5.7" diagonally
 - 2. Red 3.1 eight segment LED display that can be programmed to represent any engineering unit from 0.0 to 999.9 units
 - 3. The integral variable speed drive must incorporate the following manual operator interfaces
 - a. Start membrane button
 - b. Stop membrane button
 - c. UP button to increase pump speed
 - d. DOWN button to decrease speed
 - e. Forward/ Reverse button
 - f. Red, 8-segment, 3.1 LED digital display
 - g. Mode button to access and change user configuration parameters
- B. The metering pump controller must include the following inputs and output capabilities:
 - 1. Remote two-wire start/stop discrete input.
 - 2. Remote analog speed reference input.
 - a. 0-20 mA current signal
 - b. 4-20 mA DC current signal
 - c. 0-10 VDC signal
 - d. 2-10 VDC signal
 - e. Speed potentiometer input
 - 3. Three programmable discrete input signals
 - 4. One programmable discrete output
 - 5. One programmable (NO/NC) dry-contact relay for 2 Amps up to 24 VDC resistive and 3 Amps 85-265 VAC resistive
 - 6. One programmable analog output
 - a. 0-10 VDC
 - b. 2-10 VDC
 - c. 0-20 mA DC (into 500 Ω load)
 - d. 4-20 mA DC (into 500 Ω load)

- e. The metering pump controller must incorporate the capability of using remote mounted sensor/transmitter to create a closed-loop control system complete with integral PID controller. Such options could be but not limited to pH, ORP, flow, residuals, turbidity, color, etc.
 - f. The metering pump controller shall be able to be controlled via the following communication bus strategies, as preferred by OWNER. Manufacturer shall coordinate communication bus strategy with CONTRACTOR for necessary wiring requirements and Applications Programmer:
 - 1) Ethernet/IP / TCP/IP / Modbus TCP/IP
 - g. The integral metering pump drive shall have the capability of performing 16-segment speed segmentation with separate acceleration/ deceleration profiles and programmable repetitions of sequences.
7. Each pumps controls/display shall be clearly marked with the pump equipment number
- C. Provide all cables, connectors, and a terminal junction box for termination of remote signal circuits.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Installation shall be in complete accordance with manufacturer's instructions.
- B. Installation shall include furnishing and applying an initial supply of any pump spare parts, lubricants, rebuild kits, etc, recommended by manufacturer.
- C. Check and align all pumps, motors, valves, piping, etc. after pump assemblies have been installed to ensure alignment and assembly has been unchanged from factory assembly conditions. Make adjustments required to place system in proper operating condition.

3.2 MANUFACTURER'S FIELD SERVICES

- A. A factory trained representative shall be provided for installation supervision, start-up and test services, and operation and maintenance personnel training services. The serviceman shall make three (3) visits to the site. The first visit shall be for assistance in the installation of equipment. The second visit shall be for checking the completed installation and start-up of the system. The third visit shall be for instruction of operations personnel.

+ + END OF SECTION + +

SECTION 13205

HIGH DENSITY POLYETHYLENE STORAGE TANKS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Design and manufacture of high density polyethylene storage tanks complete with appurtenances, including overflow pipe with braces, fittings, ladders, manway, anchorage system, and other details as shown on the attached Tank Data Sheet and specified herein.
- B. Equipment Identification Numbers: the following equipment identification numbers have been assigned to the equipment that shall be provided under this section:
 - 1. Sodium Hypochlorite Storage Tank: WD23_TANK_54100

1.2 QUALITY ASSURANCE

- A. Reference Standards: Tanks and appurtenances shall be designed, fabricated and inspected according to the latest edition of the following standards:
 - 1. American Society of Testing Materials (ASTM) D618: Conditioning Plastics and Electrical Insulating Materials for Testing
 - 2. ASTM D638: Tensile Properties of Plastics
 - 3. ASTM D790: Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 - 4. ASTM D883: Standard Definitions of Terms Relating to Plastics
 - 5. ASTM D1525: Test Method for Vicat Softening Temperature of Plastics.
 - 6. ASTM D1693: ESCR Specification Thickness 0.125" F50-10% Igepal.
 - 7. ASTM D1998-15: Standard Specification for Polyethylene Upright Storage Tanks
 - 8. ASTM D2765: Degree of Crosslinking in Crosslinked Ethylene Plastics as Determined by Solvent Extraction.
 - 9. ASTM D2837: Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials.
 - 10. ASTM D3892: Practice of Packaging/Packing of Plastics.
 - 11. ASTM D4883: Standard Test Method for Density of Polyethylene by the Ultrasound Technique
 - 12. ASTM F412: Definitions and Terms Relating to Plastic Piping Systems.
 - 13. Association of Rotational Molders (ARM) Low Temperature Impact Resistance (Falling Dart Test Procedure).
 - 14. American National Standards Institute (ANSI) B16.5: Pipe Flanges and Flanged Fittings
 - 15. California Building Code (latest edition)
- B. Factory Tests:
 - 1. Dimensions and Tolerances Tests: Measurements shall be taken with the tank in the vertical position with the tank completely empty.
 - a. Tolerances for outside diameter out of roundness shall be per ASTM D1998-15.
 - b. Tolerances for fittings placement will be +/- 0.5 inches in elevation and 2 degrees radial at ambient temperature.

2. Visual Inspection: Verification that the tank is free of visual defects such as foreign inclusions, air bubbles, pinholes, pimples, crazing, cracking, and delaminations that will impair the performance of the tank.
 3. Low Temperature Impact Test:
 - a. In accordance with ASTM D 1998-15
 - b. Test specimens shall be taken from fittings location or piggy-back test molds.
 - c. Test specimens shall be conditioned at -40 deg F for a minimum of two (2) hours.
 - d. Test specimens > ½" wall thickness shall be tested at 200 ft-lb. Test specimens < ½" wall thickness shall be tested at 100 ft-lb.
 4. Degree of Crosslinking Test:
 - a. Conduct o-xlene insoluble fraction (gel test) per ASTM D2765 Method C for the determination of the ortho-xlene insoluble fraction (gel) of crosslinked polyethylene.
 - b. The percent gel level for crosslinked tanks on the inside 1/8 inch of the wall shall be a minimum of 65%.
 5. Ultrasonic Tank Thickness Test: All tanks shall meet design wall thickness requirements and tolerances.
 - a. All tanks with capacity greater than 2,000 gallons shall be measured for tank wall thickness at 6 inches, 1 ft, 2 ft, 3 ft and 4 ft on the tank sidewall height at 0 and 180 deg around the tank circumference with 0 deg being the tank manway and in the counter-clockwise direction per ANSI standard drafting specifications.
 - b. All tanks with capacity less than 2,000 gallons shall be measured for tank wall thickness at 6 inches, 1 ft and 2 ft on the tank sidewall height at 0 and 180 deg around the tank circumference with 0 deg being the tank manway and in the counter-clockwise direction per ANSI standard drafting specifications.
 6. Hydrostatic test in accordance with ASTM D 1998-15
- C. Warranty:
1. Manufacturer shall provide a minimum five (5) year full replacement warranty in the OWNERS name for each tank, by serial number and chemical service.

1.3 SUBMITTALS

- A. In accordance with Specification Section 01330, Submittal Procedures.
 1. Shop Drawings:
 - a. Complete drawings and details of the tank and all dimensions, connections, appurtenances, anchorage and restraint system.
 - b. Details of inlet and outlet fittings, manways, flexible connections, and vents.
 2. CONTRACTOR shall supply seismic anchorage calculations for each tank as required by Specification Section 01610.
 3. Product Data:
 - a. Detailed descriptive literature including tank weight, materials of construction, manufacturing details, resin manufacturer data sheet, and wall thickness.
 - b. Confirmation from resin manufacturer that the proposed resin system is suitable for storage of the specified chemicals using the fabrication technique proposed.
 - c. Complete design calculations for tank, reinforcement, and anchorage system.
 - 1) Hoop stress shall be calculated using 550 PSI at 100 degrees F as prescribed in ASTM D 1998-15.
 - 2) Tank restraint system calculations for seismic and wind loading criteria specified herein, signed and sealed by a Civil or Structural Engineer licensed in California.
 - d. Tank capacity chart indicating storage volume in gallons and height in feet.

- e. Manufacturer's recommended procedures for unloading, handling, and installing the tank and appurtenances, including recommended bolt torque for all bolted connections.
- f. Color chart showing available colors.
- 4. Quality Control Submittals:
 - a. Certificate of Compliance with these specifications and ASTM D 1998-15.
 - b. Copy of the Manufacturer's Quality Assurance Program
 - c. Complete Factory Testing Report
 - d. Manufacturer's warranty

1.4 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Tank shall not be shipped until ENGINEER has approved Factory Testing Report.
- B. All packing, packaging, and marking provisions of ASTM D3892 shall apply.
- C. Each tank shall be shipped clearly marked with the Manufacturer's standard identification system indicating the following, at minimum:
 - 1. Name of Manufacturer.
 - 2. Date of Manufacture.
 - 3. Tank Capacity.
 - 4. Model Number.
 - 5. Serial Number.
- D. Tank and all components shall be protected from damage during shipment and handling. Details of protection procedures shall be the full responsibility of the Manufacturer, with the following minimum measures taken:
 - 1. Tank shall be supported during shipment to prevent contact with bulkhead or bed of vehicle.
 - a. Tank shipped horizontally shall have padded cradle supports
 - b. Tank shipped vertically shall be placed on a skid.
 - 2. All fittings shall be installed, removed, and shipped separately.
 - 3. Prevent damage to flanged connections using wooden blinds bolted to the flange and having a diameter two (2) inches greater than the outside diameter of the flange.
 - 4. All unflanged components shall be plugged to prevent deflection and protected by adequate exterior wrapping.
 - 5. All components shipped shall be firmly fastened and padded to prevent shifting or flexing during transport.
 - 6. No items shall be shipped loose inside the tank.

PART 2 - PRODUCTS

2.1 PRODUCT AND MANUFACTURER:

- A. Assmann, Inc.
 - 1. Model Numbers:
 - a. T71-00: ICT 550
- B. Poly Processing, Inc.
- C. Or Equal

2.2 SERVICE CONDITIONS

A. General:

1. Maximum fluid temperature: 95 deg F
2. Minimum fluid temperature: 35 deg F
3. Maximum ambient air temperature: 110 deg F
4. Minimum ambient air temperature: 20 deg F
5. Operating Pressure: Atmospheric

B. Service Conditions Table:

Tank	WD23_TANK_54100
Liquid Stored	Sodium Hypochlorite
Approximate Concentration	12.5%
Specific Gravity	1.20
pH	12.0
Tank Type	Crosslinked

2.3 DESIGN CRITERIA

A. General:

1. Tanks shall be rotationally-molded crosslinked polyethylene, one-piece seamless construction, cylindrical in cross-section and vertical in axis.
2. Tanks shall fully conform to ASTM D 1998-115.
3. Dimensions shall be as shown in the attached Tank Data Sheets.
4. All tank fitting attachments shall be provided with flexible couplings or other provisions to allow for movement without rupture or separation of connections.
 - a. Flexible couplings shall allow minimum 4% deflection in all directions.
5. Tanks shall be clearly marked with manufacturer, date of manufacture, and serial number.
6. All opening cut edges shall be trimmed smooth.

B. Design Loads:

1. Resistance of both wind and seismic loads shall be provided for both tank full and tank empty conditions and in accordance with Section 01 60 00, General Equipment Requirements.
2. T29-00 and T72-00 (outdoor installations): 35 psf snow load.
3. Tank Anchorage System:
 - a. Manufacturer shall be fully responsible for design and provision of adequate anchorage system for the service conditions. Design of the anchorage system shall be coordinated with the supporting foundation shown in the Contract Drawings. Anchorage designs requiring re-design of the tank foundation shown in the Contract Drawings shall not be acceptable.
 - b. All anchorage systems shall be 316 stainless steel unless otherwise specified.
 - c. Contractor shall refer to Drawing 70-SM-4 regarding special anchorage configuration for T71-00.

C. Tank type, style, capacity, dimensions, and fittings orientation shall be as shown in the attached Tank Data Sheets.

D. Materials:

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1. General:
 - a. Tanks shall be virgin polyethylene resin as compounded and certified by the Manufacturer.
 - b. Resin shall contain a minimum of a UV 8 stabilizer as compounded by the resin manufacturer.
 - c. Color shall be natural.
 - d. Pigments, where specified, shall not exceed 0.25% dry blend total weight.
2. Resin:
 - a. Crosslinked polyethylene as manufactured by ExxonMobil Chemical, or resin of equal physical and chemical properties.
 - 1) Mechanical Properties:

Property	ASTM	Value
Specific Gravity	D1998	1.9
Hoop Stress	D1998	600 PSI
Density (Resin)	D1505	0.938-0.946 g/cc
Tensile (Yield Stress 2-inch/min)	D638	3000 PSI
Elongation at Break (2-inch/min)	D638	>300%
ESCR (100% Igepal, Condition A, F50)	D1693	>1000 hours
ESCR (100% Igepal, Condition B, F50)	D1693	>1000 hours
Vicat Softening Degrees F	D1525	250
Flexural Modulus	D790	100,000 PSI

3. Fittings, Gaskets, and Fasteners:

Tank	WD23_TANK_54100
Liquid Stored	Sodium Hypochlorite
Fittings Material	PVC
Gasket Material	Viton
Bolt/Fastener Material	Titanium

- E. Wall Thickness: Minimum required wall thickness for the cylinder must be sufficient to support its own weight in an upright position without any external support, as determined by the following equation, and not less than 0.187 inches:

$$T = 0.433 \times SG \times H \times OD \div (2 \times SD)$$

Where:

- T = wall thickness (inches)
 SG = specific gravity (g/cm³)
 H = fluid head (feet)
 SD = hydrostatic design stress (PSI)
 OD = outside diameter (inches)

- 1) In accordance with the above formula, the tank shall have a stratiform (tapered wall thickness) wall.
- 2) Flat areas shall be provided to allow locating large fittings on the cylinder straight shell.
- 3) Hydrostatic Design Stress:
 - a) As determined by multiplying the hydrostatic design basis, determined by ASTM D2837 using rotationally molded samples, with a service factor selected for the application.

- b) The hydrostatic design stress is 550 PSI at 73 deg F.
- c) Hydrostatic design stress shall be derated for service above 100 deg F and for mechanical loading of the tank.

F. Top Head:

- a. Integrally molded with cylinder straight shell.
- b. Minimum thickness equal to the top of the cylinder straight shell.
- c. Top head for tanks with capacities in excess of 2000 gallons shall be designed to provide a minimum of 1300 square inches of flat area for fittings locations.

G. Bottom Head:

- a. Integrally molded with cylinder straight shell.
- b. Flat.
- c. Knuckle radius shall be 1-1/2 inches minimum.

H. Fittings:

1. Manway:
 - a. Tanks less than 2,000 gallons: Minimum 16-inch threaded polyethylene, vented and easily accessible.
 - b. Tanks greater than 2,000 gallons: Minimum 24-inch threaded polyethylene, vented and easily accessible.
2. Threaded Bulkhead (THR):
 - a. Threaded bulkhead fittings shall not be allowed for connections greater than 2 inches.
 - b. Where used bulkhead fittings shall be constructed of PVC.
 - c. Gaskets shall be a minimum of 1/4" thickness and constructed of 40-50 durometer EPDM or 60-70 durometer Viton as specified herein and in the Tank Data Sheets.
3. Bolted Double 150 lb. Flange Fittings (FLG):
 - a. Bolted double flange fitting shall be constructed with two (2) 150 lb. flanges and two (2) 150 lb. flange gaskets, and the correct number and size of all-thread bolts for the flange specified by the flange manufacturer.
 - b. Flanges shall be constructed of PVC Type I, Grade I, or other specified material.
 - c. Gaskets shall be a minimum of 1/4" thickness and constructed of 40-50 durometer EPDM or 60-70 durometer Viton as specified herein and in the Tank Data Sheets.
 - d. Provide a minimum of four (4) full thread bolts, material as specified in the attached Tank Data Sheets.
 - 1) The bolts may have gasketed flanged metal heads or bolt heads encapsulated in polyethylene material.
 - a) Encapsulated bolts shall be designed to prevent metal exposure to the liquid in the tank and prevent bolt rotation during installation.
 - b) The polyethylene encapsulation shall fully cover the bolt head and a minimum of 1/4" of the threads closest to the bolt head.
 - c) Polyethylene shall be color coded to distinguish bolt material (white - 316 S.S., yellow - Hastelloy C276, red - Monel, green - Titanium).
 - d) Each encapsulated bolt shall have a gasket to provide a sealing surface against the inner flange.
 - 2) Bolted double flange fittings shall have bolt holes straddling the principal centerline of the tank in accordance with ANSI/ASME B-16.5 unless otherwise specified.
4. Lifting Lugs: Tanks shall have a minimum of three lifting lugs integrally molded in the cylinder straight shell.

- a. Lifting lugs shall be designed and located to enable erection of an empty tank.
 - b. Lifting lugs shall be Type 316 stainless steel.
- 5. Tie-downs:
 - a. Provide a minimum of four (4) tie-down lugs integrally molded into the top head.
 - b. Tie-down lugs shall be designed to allow tank retention in wind and seismic loading without damage to the tank.
- 6. Flexible Tank Fittings:
 - a. Flexible fittings for all tank piping connections shall be supplied by the tank manufacturer.
 - b. Flexible expansion joint with low spring rate for protection of stress sensitive connections. Provide one at each connection to HDPE chemical storage tanks.
 - c. Pressure Rating: 100 psi
 - d. Material: 100% PTFE resin conforming to ASTM D4894.
 - e. Ends: 150# ANSI flanged ends.
 - f. 316 SS bolts.
 - g. EPDM gaskets.
 - h. Provide stainless steel restraint cables to prevent over-extension of joint.
 - i. Performance Specifications:
 - 1) Axial Travel: >0.47".
 - 2) Lateral Deflection: >0.35".
 - 3) Angular Deflection: > 24°
 - j. Manufacturers and Products:
 - 1) Ethylene - Flexijoint
 - 2) Or Equal

2.4 APPURTENANCES

- A. General:
 - 1. Provide the following appurtenances where called for on the Tank Data Sheet for each tank.
 - 2. Uncoated or exposed carbon steel appurtenances, fasteners, or anchorage will not be accepted.
- B. Down Pipes and Fill Pipes:
 - 1. Down pipes and fill pipes shall be PVC or material compatible with chemical stored.
 - 2. Down pipes and fill pipes shall be supported at 6-inch intervals.
- C. U-Vent: Each tank must be vented for the material and flow and withdrawal rates expected. U-vents shall be furnished complete and shall be constructed of PVC or material compatible with the chemical stored.
- D. Level Sensor Flange Mount: Provide flange on top of tank for mounting a level sensor. Coordinate flange size with electrical drawings for sensor mounting detail.
- E. Supports: Provide pipe supports for fill and vent piping.
- F. Tank Identification Plate:
 - 1. Each tank shall be provided with a nameplate indicating the equipment number and title as shown on the tank data sheet.
- G. Secondary Containment Basin:
 - 1. Rectangular Containment Basin:
 - a. Linear medium density polyethylene.

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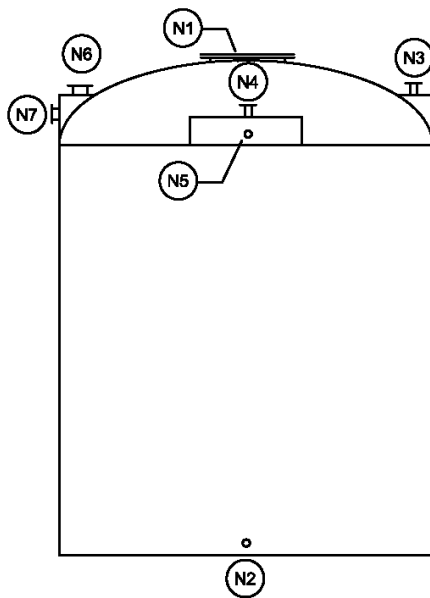
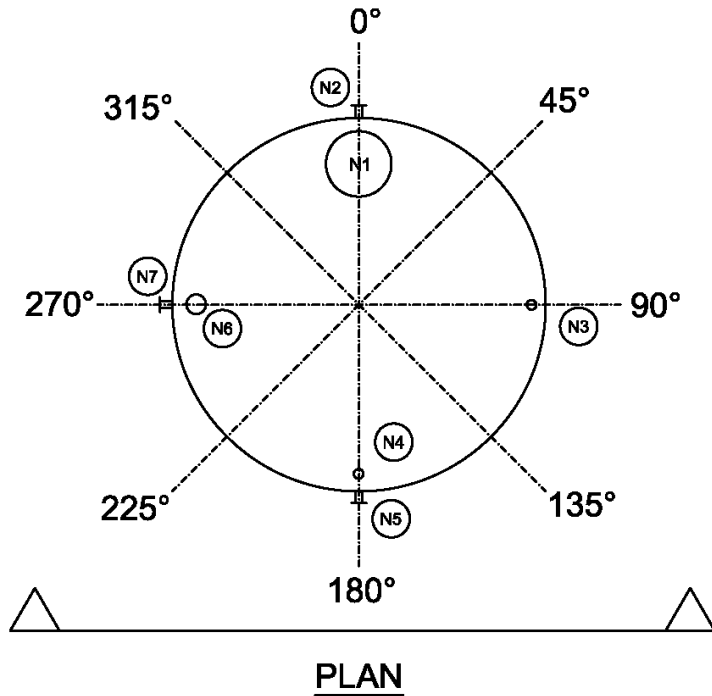
- b. Complies with 40 CFR-264.193.
- c. All wall thicknesses conform to ASTM D-1998.
- d. Provide containment volume of 550 gallons.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install tank in complete conformance with manufacturer's written instructions and Engineer's approved shop drawings
- B. Concrete tank pad shall be level and smooth to the tolerances recommended by the tank manufacturer.

+ + END OF SECTION + +



Item No.	WD23 TANK 54100
Name	Sodium Hypochlorite Storage Tank
Liquid Stored	12.5% Sodium Hypochlorite
Working Capacity	550 Gallons
Tank Inside Diameter	4'-0"
Design Code	ASTM D1998-15
Materials:	
Resin	Cross Linked
Gaskets	Viton
Bolts	Titanium
Roof	Domed
Shell	Vertical Cylinder
Bottom	Flat

Nozzle Schedule

MK	Size / Type	Service
N1	16"	Manway
N2	1" THR	Outlet at lowest possible elevation on tank wall no flush bottom
N3	1/2" THR	Pressure Relief
N4	1" THR	Tank Vent
N5	3/4" THR	Inlet
N6	6" FLG	Level Transmitter
N7	2" THR	Overflow

Accessories

Ladder	
Lifting Lugs	X
Access Manway	X
Insulate	
Containment Basin	X

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SECTION 13251

BLADDER-TYPE HYDROPNEUMATIC TANK

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Scope: Provide bladder-type hydropneumatic tank and all appurtenances required to provide a complete fully functional system.
- B. All equipment specified in this Section shall be supplied by a single system supplier or Manufacturer.

1.2 QUALITY ASSURANCE

- A. Quality Control Submittals:
 - 1. Tank Manufacturer's written instructions.
 - 2. Manufacturer's Certificate of Compliance that tank is certified and stamped in accordance with ASME Section VIII, Division 1.
 - 3. Manufacturer's Certificate of Proper Installation.
 - 4. Statements of Qualification: Tank welders shall be ASME certified.
 - 5. The tank Manufacturer shall certify that all wetted tank materials are in compliance with NSF Standard 61.
 - 6. Test Reports:
 - a. Date and time of testing.
 - b. Description of method of testing, including pumping combinations and pressure records.
 - c. Description of any observed leaks or failures and method and date of repair.
 - d. Description of catastrophic failures.
 - e. Signature of the CONTRACTOR and Manufacturer's representative.

1.3 SUBMITTALS

- A. Shop Drawings:
 - 1. Complete dimensional fabrication drawings of hydropneumatic tank and accessories certified correct by system supplier.
 - 2. Complete piping schematic drawings showing all piping and flows directly associated with hydropneumatic tank.
 - 3. Structural design calculations, sealed and signed by a Civil or Structural engineer, licensed in the State of California.
- B. Field Assembly Instructions: Provide instructions for unloading and installing hydropneumatic tank.
- C. Operation and Maintenance Manuals: Submit complete manuals including copies of all approved Shop Drawings, test reports, maintenance data and schedules, description of operation, and spare parts information.
- D. Warranty: Submit 1-year minimum warranty.

PART 2 - PRODUCTS

2.1 PRODUCT AND MANUFACTURER:

- A. Pulsco Corporation
- B. Young Engineering Manufacturing, Inc.
- C. Or approved equal

2.2 DIMENSIONAL AND PHYSICAL DATA

- A. Physical Data for Tank:
 - 1. Total Volume: 2,000 gallons
 - 2. Initial Air Volume (high pressure): 1,200 gallons
 - 3. Working Volume: 215 gallons
 - 4. Configuration: Vertical cylinder with elliptical dished ends
 - 5. Shell Diameter: 6'-0"
 - 6. Design Minimum Pressure: 55 psi
 - 7. Design Maximum Pressure: 180 psi
 - 8. Water Seal at Minimum Pressure: 25% of Total Volume
 - 9. Design Pressure Rating: 200 psi
 - 10. Design Temperature: 15 - 115°F
 - 11. Liquid Service: Potable Water

2.3 MATERIALS:

- A. Heads and Cylinder: SA 516 Grade 70 carbon steel
- B. Nozzles: SA 106 Grade B carbon steel
- C. Flanges: SA 105 carbon steel
- D. Support Saddles: SA 36 carbon steel

2.4 STRUCTURAL DESIGN

- A. The hydropneumatic tank and its major components, including anchor bolts and other supporting and restraining parts, shall be designed by a Civil or Structural engineer, licensed in the State of California, to resist lateral forces in accordance with the International Building Code, latest edition. Forces shall be based on the empty, operating, or flooded weights, whichever is greatest.
- B. Support Saddles:
 - 1. Hydropneumatic tank vendor shall supply steel support saddles as required to support tank.
 - 2. Support saddles shall be integral with tank.
 - 3. Support saddle shall be designed to keep the bottom of the tank minimum 2-feet off of the ground.
 - 4. Hydropneumatic tank vendor shall size stainless steel anchor bolts for installation into concrete slab or equipment pad as shown on the Drawings. Anchor bolts shall be supplied by CONTRACTOR.

5. Hydropneumatic tank vendor shall provide transfer-load values to the ENGINEER for the design of the concrete footings.
- C. Design Requirements:
 1. In accordance with Section 01610, General Product Requirements
- D. Proof of Compliance:
 1. Structural integrity and anchorage shall be certified by an approved calculation that demonstrates the adequacy of the anchorage system for seismic forces. This calculation may be based on principles of structural analysis and engineering mechanics or based on similarity to approved shake-table tests.
 2. The CONTRACTOR shall submit for review and approval test data or calculations certified by a Civil or Structural Engineer registered in the State of California to show compliance with the above requirements.

2.5 FABRICATION

- A. Fabricate tank in accordance with ASME Boiler and Pressure Vessel Code, Section VIII, latest edition.
- B. Plate Thicknesses: Determine in accordance with allowable stresses listed in the Code for material, pressure, and temperature specified.
- C. Heads: As specified in ASME Code, Section VIII, Division 1.
- D. Corrosion Allowance:
 1. For Liquid Service of Potable Water or Recycled Water, no corrosion allowance is required.
- E. Stamp and certify tank in accordance with ASME Code Section VIII, Division 1.

2.6 COATINGS

- A. Exterior of tank shall be painted as follows. Prepare surfaces to be painted per coating manufacturer's requirements.
 1. Primer: 2 coats polyamidolamine epoxy, 4-6 mil thickness
 - a. Tnemec, Series V69, Hi-Build Epoxoline II
 - b. Or Equal
 2. Top Coat: 1 coat Polyurethane designed for exterior weathering, abrasion and corrosion resistance, 3-4 mil thickness
 - a. Tnemec, Series 750 UVX
 - b. Or Equal
- B. Tank interior shall be coated with an ANSI/NSF STD 61 approved bonded epoxy, minimum thickness 8-10 mils. Prepare surfaces to be painted per coating manufacturer's requirements.
 1. Coatings:
 - a. Tnemec, Pota-Pox Plus Series N140
 - b. Or Equal

2.7 COMPONENTS AND APPURTENANCES

- A. Bladder:

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1. Type: Gas-in-Bladder
 2. Material:
 - a. Heavy-duty flexible polyvinyl chloride membrane suitable for potable water service.
 - b. Bladder material shall meet the requirements of ANSI/NSF 61.
- B. Manhole(s): One minimum, 18-inch diameter, designed and fabricated in accordance with ASME Boiler and Pressure Vessel Code, Section VIII, Article D-10.
- C. Nozzles:
1. Nozzles shall be in accordance with ASME Code, Section VIII, Article D-6.
 - a. Sizes 2-1/2 Inches and Larger: Class 150 flanged, ANSI B16.5.
 - b. Sizes 2 Inches and Smaller: Class 3000 threaded, ANSI B16.11 (weldolet)
 2. Nozzles, size and purpose:
 - a. Inlet/Outlet: 12-inch, flanged.
 - b. Drain: 2-inch, threaded.
 - c. Blow-Off Valve: 1/2-inch, threaded.
 - d. Air Fill/Relief: 1/2-inch, threaded.
- D. Inlet/Outlet and Drain piping shall enter the tank from the bottom.
- E. Blow Off Valve with Enclosure:
1. In accordance with Boiler and Pressure Vessel Code, Section VIII, GENERAL REQUIREMENTS, UG-125 and 126.
 2. Size and setting per tank manufacturer.
- F. Integral saddle supports for bolting to concrete foundation.
- G. Mounting brackets for all tank-mounted appurtenances and controls.
- H. Lifting Lugs: Provide suitably attached for equipment assemblies and components weighing over 100 pounds.
- I. Equipment Identification Plates:
1. Provide 16-gauge Type 304 stainless steel identification plate securely mounted on each separate equipment component and control panel in a readily visible location.
 2. Plate shall bear 3/8-inch high block type black enamel filled equipment identification number and letters as indicated in this Specification.
- J. Anchor Bolts: Type 304 stainless steel, sized and furnished by supplier of hydropneumatic control tanks according to design criteria listed in this Specification.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Manufacturer shall provide written installation instructions.

3.2 FIELD QUALITY CONTROL

- A. Field Static Test:

1. Hydrostatically test installed hydropneumatic tank for 4 hours minimum at 1.3 times design pressure, before dynamic testing.
 2. Repair leaks detected during testing.
- B. Functional Test: Inspect and test components for alignment, operation, and connection, and performance.
- C. Manufacturer's Field Services: A Manufacturer's representative for the hydropneumatic tank shall be present at the jobsite for the minimum person-days listed for the services hereinunder, travel time excluded:
1. 1 person-day for installation assistance, inspection, certification of the installation, testing, startup, and training of Owner's operations personnel.

+ + END OF SECTION + +

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SECTION 15010
PIPING SUPPORT SYSTEMS

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings:
 - 1. Details and location of each pipe support type used.

PART 2 - PRODUCTS

2.1 SUPPORT SYSTEMS:

- A. Channel-type support systems
 - 1. 304 Stainless Steel
 - a. Unistrut
 - b. B-Line
 - c. Or Equal.
 - 2. Non-metallic
 - a. Aikenstrut
 - b. CLIC
 - c. Or Equal.
- B. Hanger- and Clevis-type support systems
 - 1. B-line
 - 2. Anvil
 - 3. Or Equal
- C. Stanchion-type support systems
 - 1. B-Line
 - 2. Anvil
 - 3. Or Equal
- D. Adjustable Pipe Saddle Support
 - 1. B-Line, Figure B-3092
 - 2. Or Equal
- E. Wall Bracket (14-inch to 24-inch pipe)
 - 1. B-Line Figure B-3067 Heavy Duty Angle Bracket
 - 2. Or Equal
- F. Wall Bracket (8-inch to 12-inch pipe)
 - 1. B-Line Figure B-3066 Medium Duty Angle Bracket
 - 2. Or Equal
- G. Wall Bracket (4-inch to 6-inch pipe)
 - 1. B-Line Figure B-3068 Light Duty Angle Bracket
 - 2. Or Equal

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PART 3 - EXECUTION

3.1 INSTALLATION

- A. In addition to the pipe supports specifically called for on the drawings, CONTRACTOR shall provide pipe supports as required to fully support all piping systems.
- B. CONTRACTOR shall design, supply and install pipe support system using manufacturer's standard available pipe support hardware.
- C. Pipe supports shall, at a minimum, be installed at the following locations:

- 1. On both sides of each valve, piece of equipment or other appurtenance, such that allowance is made for removal of the valve, piece of equipment, or other appurtenance while leaving the pipe system fully supported. Support piping connections to equipment by pipe support and not by the equipment.
- 2. Along straight runs of pipe, the maximum distance between supports shall be as listed below:

Pipe Diameter	Maximum Distance Between Supports	Minimum Hanger Rod Diameter (if Hanger Rods are used)
2" and smaller	6-feet	1/2"
2-1/2" to 6"	8-feet	3/4"
8" to 12"	10-feet	2 @ 3/4"
14" to 18"	10-feet	2 @ 1"
Over 18"	Custom Design	

- 3. Directly supporting valves 8-inch in diameter and larger.
 - 4. At least two supports on each side of flexible couplings or flanged coupling adapters to provide that no load is applied to the flexible coupling.
 - 5. On the pipe within two pipe diameters of each side of elbows and each branch of tees and crosses.
 - 6. Where piping passes through walls, such that no load is transferred to the wall.
- D. Install support systems in accordance with MSS SP 69, Pipe Hangers and Supports-Selection and Application and MSS SP 89, Pipe Hangers and Supports-Fabrication and Installation, unless shown otherwise.
 - 1. Support no pipe from the pipe above it.
 - 2. Do not install pipe supports and hangers in equipment access areas or bridge crane runs.
 - E. Bracing and lateral support:
 - 1. Provide lateral sway bracing on 10-foot maximum centers
 - a. Brace hanging pipes against horizontal movement by both longitudinal and lateral sway bracing.
 - 2. Install lateral supports for seismic loads at all changes in direction.
 - F. Thermal expansion and thrust restraint
 - 1. Install pipe anchors where required to withstand expansion thrust loads and to direct and control thermal expansion.
 - G. Support types:
 - 1. Horizontal Suspended Piping:
 - a. Single Pipes: Adjustable swivel-ring, splint-ring or clevis hangers.

- b. Grouped Pipes: Trapeze hanger systems.
 - c. For insulated piping, furnish galvanized steel protection shields, welding insulation saddles, or precut sections of rigid insulation (with vapor barrier) at all hanger locations.
- 2. Horizontal Piping Supported From Walls:
 - a. Single Pipes: Wall brackets or wall clips attached to wall with anchors. Clips attached to wall-mounted framing also acceptable.
 - b. Stacked Piping:
 - 1) Wall-mounted framing system and clips acceptable for piping smaller than 3-inch minimal diameter.
 - 2) Piping clamps that resist axial movement of pipe through support not acceptable.
 - c. Insulated piping shall have the insulation removed in the vicinity of wall brackets and piping clips to allow only direct pipe wall contact with the support system.
- 3. Horizontal Piping Supported From Floors:
 - a. Stanchion Type:
 - 1) Pedestal type; adjustable with stanchion, saddle, and anchoring flange.
 - 2) Use yoked saddles for piping whose centerline elevation is 18 inches or greater above the floor and for all exterior installations.
 - 3) Provide neoprene waffle isolation pad under anchoring flanges, adjacent to equipment or where otherwise required to provide vibration isolation.
 - b. Floor-Mounted Channel Supports:
 - 1) Use for piping smaller than 3-inch nominal diameter running along floors and in trenches at piping elevations lower than can be accommodated using pedestal pipe supports.
 - 2) Attach channel framing to floors with anchor bolts.
 - 3) Attach pipe to channel with clips or pipe clamps.
 - c. Concrete Cradles:
 - 1) Use for piping larger than 3-inch along floor and in trenches at piping elevations lower than can be accommodated using stanchion type.
- 4. Vertical Pipe:
 - a. Support with wall brackets and base elbow or riser clamps on floor penetrations.
 - b. Insulated piping shall have the insulation removed in the vicinity of wall brackets and riser clamps, to allow only direct wall contact with the support system.
- H. Standard Attachments:
 - 1. To Concrete Ceilings: Concrete inserts.
 - 2. To Steel Beams: I-beam clamp or welded attachments.
 - 3. To Wooden Beams: Lag screws and angle clips to members not less than 2-1/2 inches thick.
 - 4. To Concrete Walls: Concrete inserts or brackets or clip angles with anchor bolts.
 - 5. Existing Walls and Ceilings: Install as specified for new construction, unless shown otherwise.
 - 6. Repair mounting surfaces to original condition after attachments are made.
- I. Isolation:
 - 1. Install elastomeric inserts designed to isolate piping from pipe supports where copper pipe is run in stainless steel supports, or where other dissimilar metals are in contact with pipe supports.
- J. Materials:
 - 1. Channel-type, hanger-type and trapeze-type support systems and pipe racks constructed of channel systems:

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- a. Provide non-metallic support systems in all chemical storage and feed areas or as otherwise noted on the Drawings. Provide type 316 stainless steel fasteners.
- b. Provide type 304 stainless steel support systems and fasteners in all other areas.
- 2. Stanchion-type support systems
 - a. Provide steel and ductile iron stanchion components
 - b. Coat stanchions after assembly per specification Section 09900, Painting.

+ + END OF SECTION + +

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SECTION 15080

PIPING INSULATION

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings:
 - 1. Manufacturer's data on materials, construction, end connections, ratings, overall lengths, etc.

PART 2 - PRODUCTS

2.1 PIPE INSULATION

- A. **INS-02:** Rigid Fiberglass with PVC Cover
 - 1. Material:
 - a. Insulation: UL rated, preformed, sectional rigid fiberglass
 - b. Vapor Barrier Jacket: Kraft paper with aluminum foil with pressure sensitive adhesive lap
 - c. Cover: Preformed PVC Cover
 - 1) UV resistant
 - 2) Joints designed to shed water
 - 3) Color: White.
 - 4) Provide Identification Labels per the requirements of 10400 – Identification Devices
 - 2. Temperature Rating: 0 degrees to 850 degrees Fahrenheit
 - 3. Conductivity in accordance with ASHRAE 90.1 and minimum of 0.27 BTU-in/hr-ft² degrees F at 75 degrees F per ASTM C177 or ASTM C518.
 - 4. Minimum water vapor transmission of 0.02 perm-inch per ASTM E96
 - 5. Flame Spread Rating: Less than 25 per ASTM E84
 - 6. Fittings and valves:
 - a. Insulate with fabricated sections of insulation
 - b. Wrap with vapor barrier jacket
 - c. Provide preformed PVC fitting cover specifically designed for fitting or valve
 - 7. Manufacturers and Products:
 - a. Owens-Corning Fiberglass; ASJ/SSL-II with PVC Cover
 - b. Johns Manville Corp; Micro-Lok with Zeston 2000 PVC Cover
 - c. Or Equal.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Insulate all piping, valves and fittings for the piping systems where insulation is called for in the Pipe Schedule or Drawings.
- B. Install insulation according to manufacturer's instructions
 - 1. Install insulation only after piping system has passed pressure testing.

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2. Requirement for insulation does not negate the requirement for coating of the piping system. Apply piping coating system as called for in the Pipe Schedule. Allow coating system to completely cure prior to installation of pipe insulation.
 3. Do not "gap" insulation at pipe supports. Trim insulation to allow for pipe support while providing continuous insulation of piping in those parts of the pipe not in contact with pipe support.
 4. Install removable/replaceable insulation sections and cover panels over fittings or valves which require maintenance access.
 5. Use accessories, adhesives and tapes per manufacturer's recommendations.
- C. Finishing
1. Overall installation shall result in smooth, straight, neat and clean piping insulation system. No frayed ends, irregular lumps or other unsightly installation result will be acceptable.

+ + END OF SECTION + +

SECTION 15100
PIPE AND FITTINGS

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings:
 - 1. Product data sheets for each piping system.
 - a. Include information on pipe, fittings and joint systems.
 - 2. Complete catalog information, descriptive literature, specifications, and identification of materials of construction.
 - 3. Complete descriptions and data for all coatings and linings.
 - 4. Tests and inspection data for pipe and coatings/linings.
 - 5. Qualifications for welders and/or technicians performing joining processes that requires specialized equipment to perform the work or as specifically identified herein.
- B. Operation and Maintenance Data as specified in Section 01330, SUBMITTAL PROCEDURES.

1.2 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. In accordance with manufacturer's directions.

PART 2 - PRODUCTS

2.1 PIPING SYSTEM DATA SHEETS

- A. Piping system data sheets (PSDS) have been attached to this Specification and are incorporated herein by reference. Provide piping systems in accordance with piping system data sheets.

2.2 THRUST RESTRAINT

- A. Provide rigid or restrained joints and fittings for all piping systems specified with a test pressure in the Pipe Schedule.
- B. Unless otherwise specified in the Pipe Schedule or shown on the Drawings, thrust blocks shall not be used.

PART 3 - EXECUTION

3.1 PIPE SCHEDULE

- A. A Pipe Schedule has been included on the Drawings and is incorporated herein by reference. Install piping systems in accordance with Pipe Schedule.

- B. For pipe which is shown on the Drawings, but not referenced in the Pipe Schedule, CONTRACTOR to provide pipe material and fittings which are appropriate for the intended service and acceptable to the ENGINEER.

3.2 PREPARATION

- A. Inspect pipe and fittings before installation, clean ends thoroughly, and remove foreign matter and dirt from inside.
- B. Repair any coatings or linings which were damaged during shipping and handling using manufacturer-approved coating and lining repair materials in accordance with manufacturer's instructions.

3.3 INSTALLATION

- A. General:
 - 1. Join pipe and fittings in accordance with manufacturer's instructions, unless otherwise shown or specified.
- B. Joint Assembly:
 - 1. Flanged Joints (FLG):
 - a. Bolt Holes: Straddle vertical centerlines, aligned with connecting equipment flanges or as shown.
 - b. Follow a bolt tightening pattern which produces uniform bearing pressure.
 - c. Do not over-tighten bolts. Follow manufacturer's recommendation for bolt torque.
 - d. Provide gasket at every flanged joint.
 - e. Provide insulating flange kit where indicated on Drawings and required in this Specification.
 - 2. Threaded and Coupled Joints (THR):
 - a. Conform to ANSI B1.20.1.
 - b. Produce sufficient thread length to ensure full engagement when screwed home in fittings.
 - c. Ream pipe ends and clean chips and burrs after threading.
 - d. Make connections with not more than three threads exposed.
 - e. Lubricate male threads only with thread lubricant or tape as specified on Piping Data Sheets.
 - f. PVC Threaded Joints:
 - 1) Provide Schedule 80 threaded nipple where necessary to connect to threaded valve or fitting.
 - 2) Use strap wrench for tightening threaded plastic joints. Do not overtighten fittings.
 - g. HDPE Threaded Joints:
 - 1) Joining HDPE pipe with threaded connections is not allowed unless specifically approved by the ENGINEER
 - h. Provide dielectric union or insulating coupling where indicated on Drawings and required in this Specification.
 - 3. Grooved-End Joints (GRV):
 - a. Type: Rigid, except where joints are used to correct misalignment, to provide flexibility, and where shown otherwise, in which case provide flexible type.
 - b. Grooved end joints are not allowed for plastic pipes unless approved by the ENGINEER.
 - 4. Soldered Joints (SLD):
 - a. Before soldering, remove stems and washers from solder joint valves.

- b. Use only solder specified for particular service.
- c. Cut pipe ends square and remove fins and burrs.
- d. Protect adjacent surfaces from damage during soldering.
 - 1) Protect from high temperatures due to flame
 - 2) Protect from damage due to dripping flux or solder
- e. After thoroughly cleaning pipe and fitting of oil and grease using solvent and emery cloth, apply noncorrosive flux to the male end only.
- f. Solder Joint
- g. Wipe excess solder from exterior of joint before hardened.
- 5. Solvent Welded Joints (SLV):
 - a. Use only solvent cement which is rated for use in the service intended. Check compatibility of solvent cement with service, especially in pipelines which carry chemicals.
 - b. Observe all manufacturer's requirements for environmental conditions for use of solvent cement.
 - c. Cut pipe ends square and remove fins and burrs.
 - d. Apply appropriate primer.
 - e. Apply solvent cement and assemble joint.
 - 1) Hold in place long enough for solvent cement to set-up and hold joint, as assembled, until solvent cement has cured.
 - f. Wipe excess solvent cement from exterior of joint before hardened.
- 6. Proprietary Restrained Mechanical Joints (PRJ):
 - a. PRJ piping shall be furnished with factory-fabricated retainer weldment on spigot end.
 - b. If PRJ piping is field cut, the pipe joint shall be restrained using Restrained Mechanical Joint (RMJ) Glands as specified in Section 15120, Piping Specialties. Field welding of retainer weldment will not be allowed.
- 7. Welded Steel and Stainless Steel Joints (WLD)
 - a. Field welded joints shall be in accordance with AWWA C206
 - b. Welder Qualifications:
 - 1) All welding shall be done by skilled welders, welding operators, and tackers who have had adequate experience in the methods and materials to be used.
 - 2) Welders shall be qualified by the CONTRACTOR under the provisions of ASME BPVC for shop welds and ANSI/AWS D1.1 for field welds.
 - 3) Furnish all material and bear the expense of qualifying welders.
 - c. Backing rings will not be permitted for 30-inch and smaller pipe. Single field-welded butt joints with outside backing rings may be used for pipe larger than 30 inches in diameter.
 - d. Where exterior welds are performed, adequate space shall be provided for welding and inspection of the joints.
 - e. Butt Straps
 - 1) Butt straps shall be used as closure pieces and where shown on the Drawings.
 - 2) Where used or required, shall be as shown on the Contract Drawings or as approved during shop drawing review.
 - 3) When fitting up the ends of pipe to be welded or fitting butt-strap pieces, minor jacking or clamping will be allowed. Cold working the metal and sledges or localized application of heat and working the metal and sledges will not be allowed. If field displacement of joints, where butt strap joints are indicated, does not allow proper fit-up with the tolerances indicated, special closure butt straps or mitered pieces shall be shop fabricated and installed.
 - 4) Butt straps shall be welded on both the inside and outside of the pipe and at each end of the pipe and strap to avoid stress multiplication.

- f. Prior to the backfilling or beginning the welding procedure, any tack welds or joint stops used to position the pipe during laying shall be removed. Any annular space between the faying surfaces of the bell and spigot shall be equally distributed around the circumference of the joint by shimming, jacking, or other suitable means. The weld shall then be made in accordance with ANSI/AWWA C206. Where more than one pass is required, all dirt, slag, and flux shall be removed before the succeeding bead is applied.
 - g. Repair of Welds: All welds that are defective shall be repaired by the CONTRACTOR to meet the requirements of this section at no additional cost to the OWNER. Defects in welds or defective welds shall be removed, and that section of the joint shall then be re-welded. Only sufficient removal of defective material that is necessary to correct the defect is required. After the repair is made, the joint shall be checked by repeating the original test procedure. Welds deficient in size shall be repaired by adding weld metal.
 - 8. Insulating Flanges, Couplings, and Dielectric Unions:
 - a. Applications: Provide insulating flange, coupling or di-electric union for all joints at the following locations:
 - 1) Dissimilar metal piping connections.
 - 2) Cathodically protected piping penetration to buildings.
 - 3) Submerged to unsubmerged metallic piping connections.
 - 4) Where required for electrically insulated connection.
 - b. Installation:
 - 1) Insulating joints connecting immersed piping to non-immersed piping shall be installed above maximum water surface elevation.
 - 2) Align and install insulating joints according to manufacturer's recommendations to avoid damaging insulating materials.
- C. Exposed Piping Installation:
 - 1. Piping Runs:
 - a. Parallel to building or column lines and perpendicular to floor, unless shown otherwise.
 - b. Piping upstream and downstream of flow measuring devices shall provide straight lengths as required for accurate flow measurement.
 - 2. Supports: As specified in Section 15010, PIPING SUPPORT SYSTEMS.
 - 3. Group piping wherever practical at common elevations; install to conserve building space and not interfere with use of space and other work.
 - 4. Provide unions or flanges at each piping connection to equipment or instrumentation on equipment side of each block valve to facilitate installation and removal.
 - 5. Install piping so that no load or movement in excess of that stipulated by equipment manufacturer will be imposed upon equipment connection;
 - 6. Install piping to allow for contraction and expansion without stressing pipe, joints, or connected equipment.
 - 7. Piping clearance, unless otherwise shown:
 - a. Over Walkway and Stairs: Minimum of 7 feet 6 inches, measured from walking surface or stair tread to lowest extremity of piping system including flanges, valve bodies or mechanisms, insulation, or hanger/support systems.
 - b. Between Equipment or Equipment Piping and Adjacent Piping: Minimum 3 feet 0 inch, measured from equipment extremity and extremity of piping system including flanges, valve bodies or mechanisms, insulation, or hanger/support systems.
 - c. From Adjacent Work: Minimum 1 inch from nearest extremity of completed piping system including flanges, valve bodies or mechanisms, insulation, or hanger/support systems.

- d. Do not route piping in front of or to interfere with access ways, ladders, stairs, platforms, walkways, openings, doors, or windows.
- e. Headroom in front of openings, doors, and windows shall not be less than the top of the opening.
- f. Do not install piping containing liquids or liquid vapors in transformer vaults or electrical equipment rooms.
- g. Do not route piping over, around, in front of, in back of, or below electrical equipment including controls, panels, switches, terminals, boxes, or other similar electrical work.

D. Buried Pipe Installation:

1. Pipe Placement:

- a. Keep trench dry until pipe laying and joining are completed.
- b. Exercise care when lowering pipe into trench to prevent twisting or damage to pipe.
- c. Prevent foreign material from entering pipe during placement.
 - 1) Close and block open end of last laid pipe section when placement operations are not in progress and at close of day's work.
- d. Lay pipe upgrade with bell ends pointing in direction of laying.
- e. Deflect pipe at joints for pipelines laid on a curve using unsymmetrical closure of spigot into bell. Utilize a maximum of 75 percent of manufacturer's recommended allowable joint deflection.
 - 1) If joint deflection of standard pipe lengths will not accommodate horizontal or vertical curves in alignment, provide:
 - a) Shorter pipe lengths.
 - b) Fittings/bends.
- f. Secure pipe which has been placed from movement or damage while placing the next section of pipe.
- g. Prevent uplift and floating of pipe prior to backfilling.

E. Cleaning:

- 1. Following assembly and testing, and prior to disinfection and final acceptance, flush pipelines with water at 2.5 fps minimum flushing velocity until foreign matter is removed. At a minimum, flush for a period of time which will flush the entire pipeline volume three times.
 - a. If impractical to flush large diameter pipe at 2.5 fps, clean in-place from inside by brushing and sweeping, then flush line at lower velocity. If lower velocity is used, flush the entire pipeline volume five times.
- 2. Provide temporary means of removing flushing water from pipeline during flushing.
- 3. Provide means for removal/screening of debris from the flushing water, disposal of debris and disposal of flushing water.

3.4 TESTING

- A. Pressure test piping in accordance with the Pipe Schedule, and Section 15990, Pressure Testing of Piping Systems.

3.5 SUPPLEMENTS

- A. The following supplements are attached to this Specification section and incorporated herein by reference:
 - 1. Pipe Schedule (see Drawings)
 - 2. 15100 PSDS BSP – Black Steel Pipe

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3. 15100 PSDS CHE – Chemical Tubing and Pipe System
4. 15100 PSDS COP – Copper Pipe
5. 15100 PSDS CPVC – Solvent Welded CPVC Pipe
6. 15100 PSDS DIP – Ductile Iron Pipe
7. 15100 PSDS HDPE1 – High Density Polyethylene Dual Wall Solid Drainage Pipe
8. 15100 PSDS HDPE2 – High Density Polyethylene Dual Wall Perforated Drainage Pipe
9. 15100 PSDS PVC1 – Solvent Welded Polyvinyl Chloride Pipe
10. 15100 PSDS PVC2 – PVC Pressure Pipe
11. 15100 PSDS PVC3 – Polyvinyl Chloride Drain, Waste and Vent Pipe
12. 15100 PSDS PVC4 – PVC Sewer Pipe
13. 15100 PSDS SSTP – Stainless Steel Pipe
14. 15100 PSDS SSTT – Stainless Steel Tubing
15. 15100 PSDS WSP – Welded Steel Pipe
16. 15100 PSDS WSSTP – Welded Stainless Steel Pipe

+ + END OF SECTION + +

15100-6

SECTION 15100 PSDS BSP**PIPING SYSTEM DATA SHEET – BLACK STEEL PIPE**

ITEM	SIZE	DESCRIPTION
Pipe	2 inch & smaller 2-1/2 thru 6 inch	Carbon steel, ASTM A106, Grade B seamless or ASTM A53 Rev A, Grade B seamless or ERW. Schedule 80. Schedule 40.
Joints	3 inch & smaller 4 inch & larger	Threaded or flanged at valves and equipment. Flanged at valves and equipment.
Fittings		Threaded: ASTM A105 Class 3000 Forged Steel, threaded ASME B16.11.
Branch Connections		Tee or reducing tee in conformance with Fittings, above, galvanized 2,000-pound WOG threadolet or welding boss; galvanize after welding.
Flanges		Galvanized forged carbon steel, ASTM A105/A105M, ANSI B16.5 Class 150 or Class 300, threaded, 1/16-inch raised face.
Unions		Threaded malleable iron, ASTM A197 or A47, 300-pound WOG, brass to iron seat, meeting the requirements of ANSI B16.3.
Plugs		Forged carbon steel, ASTM A181/A181M Rev A, Grade II, round head, threaded, galvanized.
Bolting		Flanges: Carbon steel ASTM A307, Grade A hex head bolts and ASTM A563, Grade A hex head nuts.
Gaskets	All Flanges	Flanged, Water and Sewage Service: 1/8-inch thick, red rubber (SBR), hardness 80 (Shore A), rated to 200 degrees F., conforming to ANSI B16.21, AWWA C207, and ASTM D1330, Grades 1 and 2. Blind flanges shall be gasketed covering the entire inside face with the gasket cemented to the blind flange.
Thread Lubricant	2 inch & smaller	Teflon tape or joint compound that is insoluble in water.

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15100-2 PSDS BSP

SECTION 15100 PSDS CHE

PIPING SYSTEM DATA SHEET – CHEMICAL TUBING AND CONDUIT

ITEM	DESCRIPTION																										
General	For liquid chemical service, provide color-coded LLDPE tubing, colors as listed in the Pipe Schedule. For gas chemical service, provide HDPE tubing, natural color (semi-opaque white). Install tubing in electrical conduit for ease of installation/replacement as well as non-pressure rated secondary containment. Tubing manufacturer shall confirm chemical compatibility of tubing with chemical system being served.																										
Tubing	Tubing size references on the Drawings or in the Specifications refer to outside diameter, unless noted otherwise. Provide tubing with the following corresponding inside diameter and pressure rating where outside diameter is called for: <table><tr><th rowspan="2">OUTSIDE DIAMETER</th><th rowspan="2">INSIDE DIAMETER</th><th colspan="2">PRESSURE RATING AT 70 DEG. F</th></tr><tr><th>LLDPE</th><th>HDPE</th></tr><tr><td>3/8"</td><td>1/4"</td><td>214 psi</td><td>272 psi</td></tr><tr><td>1/2"</td><td>3/8"</td><td>153 psi</td><td>194 psi</td></tr><tr><td>5/8"</td><td>1/2"</td><td>119 psi</td><td>151 psi</td></tr><tr><td>3/4"</td><td>5/8"</td><td>97 psi</td><td>123 psi</td></tr><tr><td>1"</td><td>3/4"</td><td>154 psi</td><td>195 psi</td></tr></table> HDPE tubing shall be suitable for full vacuum service (14 psi vacuum) LLDPE Characteristics: • Specific Gravity (ASTM D792): <0.920 • Tensile strength (ASTM D638): 2800 psi @ 73 deg. F • Elongation (ASTM D638): 530% • Hardness (ASTM D785): 44D Rockwell Durometer • Heat Distortion (ASTM D648): 120 deg. F @ 66 psi • Color: ▪ 3/8" I.D. and smaller - red, green, blue, white, gray, yellow, orange, purple, or black ▪ Larger than 3/8" I.D. - semi-opaque or black	OUTSIDE DIAMETER	INSIDE DIAMETER	PRESSURE RATING AT 70 DEG. F		LLDPE	HDPE	3/8"	1/4"	214 psi	272 psi	1/2"	3/8"	153 psi	194 psi	5/8"	1/2"	119 psi	151 psi	3/4"	5/8"	97 psi	123 psi	1"	3/4"	154 psi	195 psi
OUTSIDE DIAMETER	INSIDE DIAMETER			PRESSURE RATING AT 70 DEG. F																							
		LLDPE	HDPE																								
3/8"	1/4"	214 psi	272 psi																								
1/2"	3/8"	153 psi	194 psi																								
5/8"	1/2"	119 psi	151 psi																								
3/4"	5/8"	97 psi	123 psi																								
1"	3/4"	154 psi	195 psi																								

15100-1 PSDS CHE

ITEM	DESCRIPTION												
	HDPE Characteristics: • Specific Gravity (ASTM D792): 0.955 • Tensile strength (ASTM D638): 3900 psi @ 73 deg. F • Elongation (ASTM D638): >500% • Hardness (ASTM D785): 65D Rockwell Durometer • Heat Distortion (ASTM D648): 151 deg. F @ 66 psi • Color: Semi-Opaque or Black For all tubing runs, use continuous lengths of tubing with no splices. Tubing Manufacturers: Hudson Extrusions, or equal												
Conduit	Conduit for chemical tubing shall be PVC electrical conduit, as specified in Division 16. Sizes shall be as listed below: <table> <tr> <th>TUBING OUTSIDE DIAMETER</th><th>CONDUIT SIZE</th></tr> <tr> <td>3/8"</td><td>2"</td></tr> <tr> <td>1/2"</td><td>2"</td></tr> <tr> <td>5/8"</td><td>2"</td></tr> <tr> <td>3/4"</td><td>3"</td></tr> <tr> <td>1"</td><td>3"</td></tr> </table>	TUBING OUTSIDE DIAMETER	CONDUIT SIZE	3/8"	2"	1/2"	2"	5/8"	2"	3/4"	3"	1"	3"
TUBING OUTSIDE DIAMETER	CONDUIT SIZE												
3/8"	2"												
1/2"	2"												
5/8"	2"												
3/4"	3"												
1"	3"												
Fittings	Provide all necessary fittings, clamps and adapters for connection of tubing at the chemical metering pump outlet, chemical feed point, and any other connections shown on the Drawings. Provide barbed- or compression-style fittings, specifically designed for use with the tubing being provided, and compatible with the service (both with the fluid being carried in pipe and pressure rating). Fittings shall be located so that they are accessible at all times. No fittings shall be located in the carrier pipe. All connections shall be constructed per tubing manufacturer's recommendations to provide a connection which is equal to or greater than tubing pressure rating. All parts or fittings in contact with the fluid in the tubing shall be compatible with the chemical being carried.												

SECTION 15100 PSDS COP**PIPING SYSTEM DATA SHEET – COPPER PIPE**

ITEM	DESCRIPTION
Tubing	Seamless, conforming to ASTM B88 as follows: Potable water (buried)Type K, soft or hard temper Potable water (exposed)Type L, hard drawn Compressed air serviceType L, hard drawn P-Trap priming serviceType L, soft temper
Fittings	Commercially pure wrought copper, socket joint, conforming to ASTM B75, dimensions conforming to ANSI B16.22. Brass fittings: ¾" to 2" Conductive Compression CTS Connection Manufacturers: Jones, Mueller, Ford, or approved equal Copper Tubing, Type K Manufacturers: Cambridge Lee, Mueller Streamline, Aqua Shield, or approved equals
Flanges	Commercially pure wrought copper, socket joint, conforming to ASTM B75, faced and drilled 150-pound ANSI B16.24 standard.
Bolting	ASTM A307, carbon steel, Grade A hex head bolts, and ASTM A563 Grade A hex head nuts.
Gaskets	1/16-inch thick nonasbestos compression type, full face, Cranite, John Manville.
Solder	Joints 2-1/2 Inch and Smaller: Wire solder (95 percent tin), conforming to ASTM B32 Alloy Grade Sn95. Do not use cored solder. Joints Larger Than 2-1/2 Inch: Wire solder, melt range approximately 440 degrees F to 660 degrees F, conforming to ASTM B32 Alloy Grade HB or HN. Do not use cored solder.

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15100-2 PSDS COP

SECTION 15100 PSDS CPVC

PIPING SYSTEM DATA SHEET – SOLVENT WELDED CHLORINATED POLYVINYL CHLORIDE PIPE

ITEM	DESCRIPTION
Pipe	Schedule 80 CPVC: Type IV, Grade I or Class 23447-B conforming to ASTM D1784 and ASTM F441. Manufactured with 2 percent titanium dioxide for ultraviolet protection. Threaded nipples shall be schedule 80.
Fittings	Schedule 80 CPVC as Specified Under Pipe Above: Conforming to the requirements of ASTM F439 Rev A for socket-weld type and ASTM F437 for threaded type. Manufactured with 2 percent titanium dioxide for ultraviolet protection.
Joints	Solvent socket-weld except where connection to valves and equipment may require future disassembly.
Flanges	One piece, molded hub Type CPVC flat face flange in accordance with Fittings above; 125-pound ANSI B16.1 drilling.
Bolting	Flat Face Mating Flange or In Corrosive Areas: ASTM A193/A193M Rev A Type 316 stainless steel Grade B8M hex head bolts and ASTM A194/A194M Grade 8M hex head nuts. Raised Face Mating Flange: Carbon steel ASTM A307 Grade B square head bolts and ASTM A563 Grade A heavy hex head nuts.
Gaskets	Flat-Face Mating Flange: Full faced 1/8-inch thick EPDM rubber. Raised-Face Mating Flange: Flat ring 1/8-inch EPDM rubber, with filler gasket between OD of raised face and flange OD to protect the flange from bolting moment.
Solvent Cement	As recommended by the pipe and fitting manufacturer conforming to ASTM F493 Rev A.
Thread Lubricant	Teflon tape.

15100-1 PSDS CPVC

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SECTION 15100 PSDS DIP

PIPING SYSTEM DATA SHEET – DUCTILE IRON PIPE

ITEM	DESCRIPTION
Pipe	Buried Piping: Pressure class as indicated in the pipe schedule. If not indicated: • All pipe 12" diameter and smaller shall be pressure class 350. • All pipe 14" through 20" shall be pressure class 250. • All pipe larger than 20" shall be pressure class 200. Flanged Piping: Special Thickness Class 53 Pressure class shall be per AWWA C150/A21.50 and AWWA C151/A21.51 All buried pipes designed to carry recycled water shall be distinctively wrapped in purple tape. Manufacturers: Tyler Union US Pipe Or approved equal
Lining	Water and Reclaimed Water: Cement-Mortar: AWWA C104/A21.4. Wastewater: Modified Polyamine Ceramic Epoxy as follows: 1. 100% Solids with 20% by volume of ceramic microspheres for abrasion resistance. 2. Minimum lining thickness: 40 mils nominal dry film thickness. 3. All Wastewater lined DIP is subject to holiday inspection prior to installation. 4. All Wastewater lined DIP is subject to CCTV inspection before and after installation. All areas identified where coating is damaged shall be repaired by the CONTRACTOR in accordance with the manufacturer's recommendations, at no cost to OWNER. 5. Manufacturer and Product: a. Perma-Shield PL Series 431, Tnemec Water, Reclaimed Water: Ceramic Epoxy 1. Amine cured epoxy containing ceramic quartz pigment 2. 100% volume solids content 3. NSF-61 approved for potable water 4. Minimum lining thickness: 30 mils nominal dry film thickness 5. Manufacturer and Product:

15100-1 PSDS DIP

ITEM	DESCRIPTION
	a. Induron Protective Coatings, Perma-Clean 100 Ceramic Epoxy Lining b. Or Equal Wastewater, Sludge, Scum, as noted in Pipe Schedule: Glass lining as follows: 1. The glass powder shall be specially formulated to prevent the adherence of grease and crystalline metal salt deposits in sludge, scum, and sewage pipelines, and shall be hard, smooth, vitreous and inorganic. 2. Minimum lining thickness: 10 mils nominal dry film thickness. 3. Glass lining shall be exposed to a maturing temperature of approximately 1400 degrees F. 4. Hardness: 5-6 on the Mohs scale. 5. Density: 2.5 to 3.0 grams per cubic centimeter per ASTM D 792. 6. The following tests must be run on coupons from factory lined Ductile Iron pipe: a. Per the recommended industry standards under ASTM D-5162-01, NACE RP 0188-99, and SSPC Coating Manual, Volume 1, Section XIV, the glass lining shall be tested by "low voltage, wet sponge, non-destructive holiday detection unit", with only isolated voids permitted due to casting anomalies. Test procedure and acceptance criteria shall be per the attachment "MP-9.2, Porcelain Enamel Continuity Testing", and documentation shall be furnished with each shipment of material listing the test results by identifying "mark" or "tag" numbers. b. The glass lining shall be capable of withstanding an instantaneous thermal shock of 350 degrees F. c. The finished lining shall be able to withstand a strain of 0.001 inch/inch (the yield point of the base metal) without damage to the glass. d. The glass lining shall be capable of withstanding an instantaneous thermal shock of 350 degrees F differential without crazing, blistering or spalling. e. The glass lining shall be resistant to corrosion of between PH-3 and PH-10 at 125 degrees F. f. There shall be no visible loss of surface gloss to the lining after immersing a production sample in an 8% sulfuric acid solution at 148 degrees F for a period of 10 minutes. g. When tested according to ASTM C-283, it shall show a weight loss of not more than 3 milligrams per square inch. 6. Manufacturer and Product: a. Ferrook MEH-32

15100-2 PSDS DIP

ITEM	DESCRIPTION
	b. VITCO SG-14 c. Ceramic Coating Company SL-31 d. Or Equal.
Coating	Unless otherwise specified in the Pipe Schedule, piping shall be coated as follows: Buried Piping: • AWWA C151/A21.51: Minimum 1-mil asphaltic coating. • AWWA C105/A21.5: Polyethylene encasement, 4-mil high-density cross laminated or 8-mil linear-low density, color as required by local/state regulations. Exposed / Immersed Piping: • Primer Coating: Where shop primer is applied to protect pipe during shipping, storage and handling, primer shall be compatible with pipe coating requirements of Section 09900, Painting.
Fittings	Lined and coated same as pipe. Push-On (PO): AWWA C110/A21.10 and C111/A21.11, gray or ductile iron, 250 psi minimum working pressure. American Cast Iron Pipe Co., Fastite Joint; U.S. Pipe and Foundry, Tyton Joint. Mechanical (MJ): AWWA C110/A21.10, C111/A21.11, and C153/A21.53 gray or ductile iron, 250 psi minimum working pressure. Follower glands shall be ductile iron. Restrained Mechanical Joint (RMJ): Standard MJ Fittings with RMJ Gland conforming to requirements of Section 15120, PIPING SPECIALTIES. Proprietary Restrained (PRJ): AWWA C111/A21.11 and C153/A21.53, ductile iron, 250 psi minimum working pressure. Clow Corp., Super-Lock Joint; American Cast Iron Pipe Co., Flex-Ring or Lok-Ring Joint; U.S. Pipe, TR Flex. Grooved End (GRV): AWWA C606 and C110/A21.10, ductile iron, 250 psi minimum working pressure. Victaulic. Flange (FLG): AWWA C110/A21.10 ductile iron, faced and drilled, 125-pound flat face. Gray cast iron will not be allowed.
Joints	Push-On (PO): 250 psi minimum working pressure, AWWA C110/A21.10 and C111/A21.11. American Cast Iron Pipe Co., Fastite Joint; U.S. Pipe and Foundry, Tyton Joint. Mechanical (MJ): 250 psi minimum working pressure. Restrained Mechanical Joint (RMJ): Standard MJ Joint with RMJ gland conforming to requirements of Section 15120, PIPING SPECIALTIES. Proprietary Restrained (PRJ): 150 psi minimum working pressure. Clow Corp., Super-Lock; American Cast Iron Pipe Co., Flex-Ring or Lok-Ring; U.S. Pipe, TR Flex. Grooved End (GRV): Rigid type radius cut conforming to AWWA C606, 250 psi minimum working pressure. Victaulic.

15100-3 PSDS DIP

ITEM	DESCRIPTION
	Flange (FLG): 125-pound flat face, ductile iron, threaded conforming to AWWA C115/A21.15. Gray cast iron will not be allowed. Branch connections 3 inches and smaller, shall be made with service saddles as specified in Section 15120, PIPING SPECIALTIES.
Couplings	Grooved End: 250 psi minimum working pressure, malleable iron per ASTM A47 or ductile iron per ASTM A536. Victaulic. Grooved End Adapter Flanges: 250 psi minimum working pressure, malleable iron per ASTM A47 or ductile iron per ASTM A536. Victaulic.
Bolting	T-Bolts and other specialty bolts: Manufacturer's standard. Hex Bolts: ASTM A307, Grade B carbon steel hex head bolts Nuts: ASTM A563, Grade A carbon steel hex head nuts. T-Bolts and other specialty bolts: Type 304 stainless steel Hex Bolts: ASTM A193 B8, Type 304 stainless steel Nuts: ASTM A194 Grade 8, Type 304 stainless steel
Gaskets	Push-On, Mechanical, and Proprietary Restrained Joints: Red Rubber (SBR) conforming to ANSI/AWWA C111/A21.11. Grooved End Joints: Halogenated butyl conforming to ASTM D2000 and AWWA C606. Flanged, Water and Sewage Service: 1/8 inch-thick, red rubber (SBR), hardness 80 (Shore A), rated to 200 degrees F, conforming to ANSI B16.21, AWWA C207, and ASTM D1330, Grades 1 and 2. Full face for 125-pound flat-faced flanges, flat-ring type for 250-pound raised-face flanges. Blind flanges shall be gasketed covering the entire inside face with the gasket cemented to the blind flange. Gasket pressure rating to equal or exceed the system hydrostatic test pressure.
Joint Lubricant	Manufacturer's standard.
Manufacturers	Pacific States Tyler US Pipes Griffin American Or approved equals

15100-4 PSDS DIP

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15100-5 PSDS DIP

SECTION 15100 PSDS HDPE1**PIPING SYSTEM DATA SHEET – HIGH DENSITY POLYETHYLENE DUAL WALL SOLID DRAINAGE PIPE**

ITEM	DESCRIPTION
Pipe	High Density Polyethylene Pipe, smooth inside, corrugated outside intended for storm drainage application. Meeting the requirements of ASTM F2648, AASHTO M-252/M-294, Type S. Meets H-20 loading requirements with 1-foot of soil cover. Provide dual wall solid pipe as per the Drawings. ADS N-12 WT IB or equal.
Fittings	Use Bell and Spigot connections meeting the watertight joint performance requirements of ASTM F2306. Elbows shall be radius, not segmented/beveled. Do not use fabricated HDPE fittings. Lab test certified to 10.8 psi in accordance with ASTM D3212. ADS Dual Wall Fittings or equal.
Joints	Water-tight joints, integral bell/spigot ends with an integral reinforcing collar on the bell in accordance with ASTM D3212. Provide gasket on the spigot end. Provide transition couplings and adapters as required to couple with other piping systems. Apply joint lubricant per manufacturer on the gasket and bell during assembly. Lab test certified to 10.8 psi, in accordance with ASTM D3212.
Couplings	HDPE wrap-around sleeve with self-contained tightening straps. Lab test certified to 5 psi, minimum. Same manufacturer as pipe.
Gaskets	Rubber gasket meeting the requirements of ASTM F-477.
Lining	None
Test Pressure	5 psi - conduct pressure testing in accordance with Specification 15990.
Coating System / Color	None

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15100-2 PSDS HDPE1

SECTION 15100 PSDS HDPE2

PIPING SYSTEM DATA SHEET – HIGH DENSITY POLYETHYLENE PERFORATED DUAL WALL DRAINAGE PIPE

ITEM	DESCRIPTION
Pipe	High Density Polyethylene Pipe, smooth inside, corrugated outside intended for storm drainage application. Meeting the requirements of AASHTO M-252/M-294, Type S. Meets H-20 loading requirements with 1-foot of soil cover. Provide "slotted" pipe as per the Drawings. ADS N-12 ST IB or equal.
Fittings	Use PVC thermo-molded sanitary fittings, which are constructed to specifically work with the HDPE pipe system. Lab test certified to 10.8 psi, minimum, meeting the requirements of ASTM D3212. Elbows shall be radius, not segmented/beveled. Do not use fabricated HDPE fittings. ADS Series 35 or equal.
Joints	Soil-tight joints, integral bell/spigot ends with an integral reinforcing collar on the bell. Provide gasket on the spigot end. Lab test certified to 10.8 psi, minimum, meeting the requirements of ASTM D3212. Provide transition couplings and adapters as required to couple with other piping systems.
Couplings	HDPE wrap-around sleeve with self-contained tightening straps. Lab test certified to 5 psi, minimum. Same manufacturer as pipe.
Gaskets	Rubber gasket meeting the requirements of ASTM F-477
Lining	None
Test Pressure	None
Coating System / Color	None

15100-1 PSDS HDPE2

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15100-2 PSDS HDPE2

SECTION 15100 PSDS PVC1

PIPING SYSTEM DATA SHEET – SOLVENT WELDED POLYVINYL CHLORIDE PIPE

ITEM	DESCRIPTION
Pipe	Schedule 80 Polyvinyl Chloride (PVC), unless indicated otherwise. Type I, Grade I or Class 12454-B conforming to ASTM D1784 and ASTM D1785. Pipe shall be manufactured with 1% titanium dioxide for ultraviolet protection. All pipes designed to carry recycled water shall be colored purple or distinctively wrapped in purple tape.
Fittings	Schedule to match pipe above, ASTM D2466 and ASTM D2467 for socket weld type and Schedule 80 ASTM D2464 for threaded type. Fittings shall be manufactured with 1% titanium dioxide for ultraviolet protection.
Joints	Solvent socket weld except where connection to threaded valves and equipment may require future disassembly.
Flanges	One piece, molded hub type PVC flat face flange in accordance with Fittings above, 125-pound ANSI B16.1 drilling
Bolting	Hex Bolts: ASTM A193 B8, Type 304 stainless steel Nuts: ASTM A194 Grade 8, Type 304 stainless steel
Gaskets	Flat-Face Mating Flange: Full-faced 1/8-inch thick EPDM rubber.
Solvent Cement	As recommended by the pipe and fitting manufacturer conforming to ASTM D2564, except solvent weld cement for PVC pipe joints in sodium hypochlorite service shall be free of silica filler and shall be certified by the manufacturer to be suitable for that service. Certification shall be submitted.
Thread Sealant	Teflon Tape.

15100-1 PSDS PVC1

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SECTION 15100 PSDS PVC2**PIPING SYSTEM DATA SHEET – POLYVINYL CHLORIDE PRESSURE PIPE**

ITEM	DESCRIPTION
Pipe	Conform to the requirements of AWWA C900-16 (4-inch to 60-inch) for PVC water transmission pipe, pressure class as shown in pipe schedule. If no pressure class is shown in pipe schedule, provide pressure class adequate to accommodate test pressure shown in pipe schedule. All pipes designed to carry recycled water shall be colored purple.
Fittings	Ductile Iron per 15100 PSDS DIP – Ductile Iron Pipe. Transition fittings necessary for the proper connection shall be the standard of, and provided by, the manufacturer of the fittings.
Joints	Rubber-gasketed bell and spigot or rubber-gasketed couplings. No restrained joint PVC piping shall be allowed. In sections where joint restraint is required, transition piping to Ductile Iron Pipe with restrained joint fittings or as shown on the drawings.
Gaskets	Conforming to the requirements of ASTM F477.
Joint Lubricant	Manufacturer's standard.
Pipe Manufacturers	Certa Lock Diamond Plastics Corporation JM Manufacturing Pacific Western Pipe Vinyl Tech-White Knight Pressure-Flex Pipe PW Eagle North American Pipe Corp Or approved equal
Fittings Manufacturers	Sigma Star Tyler Union US Pipe Or approved equal

15100-1 PSDS PVC2

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SECTION 15100 PSDS PVC3

PIPING SYSTEM DATA SHEET – POLYVINYL CHLORIDE DRAIN, WASTE AND VENT PIPE

ITEM	DESCRIPTION
Pipe	PVC Drain Waste and Vent type, ASTM D1785, Type 2110, Schedule 40.
Fittings	Schedule to match pipe above, ASTM D2665 Drain, Waste and Vent Type
Joints	Solvent socket weld except where connection to threaded valves and equipment may require future disassembly.
Solvent Cement	As recommended by the pipe and fitting manufacturer conforming to ASTM D2564.
Thread Sealant	Teflon Tape.
Special Installation Instructions for DWV Piping	1. Approximate routing as shown on drawings. Provide drain waste and vent piping to produce a complete, code-compliant drain, waste and vent system. 2. Provide and install all required fittings, adapters, etc. to produce a complete system. 3. Set piping above floor slab true and plumb. 4. Set risers in CMU walls where possible, set exposed risers as close to walls as possible. 5. Where vent stacks pass through roof, fit with flashing sleeve secured to roof. 6. Extend vents minimum 1 foot above roof.

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SECTION 15100 PSDS PVC4

PIPING SYSTEM DATA SHEET – POLYVINYL CHLORIDE GRAVITY SEWER PIPE

ITEM	DESCRIPTION
Pipe	Conform to the requirements of ASTM D3034 (4 to 15-inch) and ASTM F679 (18 to 24-inch). Provide minimum SDR-26 sewer pipe with a minimum pipe stiffness of 115 PSI. PWEagle, or Equal.
Fittings	Conform to the requirements of ASTM D3034 (4 to 15-inch) and ASTM F679 (18 to 24-inch). GPK, or Equal.
Joints	Rubber-gasketed bell and spigot or rubber-gasketed couplings conforming to ASTM D3212.
Gaskets	Conforming to the requirements of ASTM F477.
Joint Lubricant	Manufacturer's standard.

15100-1 PSDS PVC4

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SECTION 15100 PSDS SSTP**PIPING SYSTEM DATA SHEET – STAINLESS STEEL PIPE**

ITEM	SIZE	DESCRIPTION
Pipe	2 inch & smaller 2-1/2 thru 6 inch	Austenitic stainless steel, ASTM A312, Grade TP 316 seamless, or welded Schedule 80 Schedule 40
Joints	3 inch & smaller 4 inch & larger	Threaded or flanged at valves and equipment. Flanged at valves and equipment.
Couplings		Threaded, Type 316 Stainless Steel, Class 3000: LF2 ASME B16.11, SA182
Flanges		Class 150, F316/316L, ASTM A102, ANSI B16.5 Class 150 or Class 300, threaded, 1/16-inch raised face.
Unions		Threaded Type 316 Stainless Steel, Class 3000: MSS SP83 ,SA182
Plugs		Threaded Type 316 Stainless Steel, Class 3000: Threads conform to ASME B1.20.1 NPT; Materials conform to ASTM A182, Dimension conform to ASME B16.11
Bolting		Hex Bolts: ASTM A320/A320M, Type 316 stainless steel, grade 5 Nuts: ASTM F594, Type 316 stainless steel, grade 5
Gaskets	All Flanges	Flanged, Water and Sewage Service: 1/8-inch thick, red rubber (SBR), hardness 80 (Shore A), rated to 200 degrees F., conforming to ANSI B16.21, AWWA C207, and ASTM D1330, Grades 1 and 2. Blind flanges shall be gasketed covering the entire inside face with the gasket cemented to the blind flange.
Thread Lubricant	2 inch & smaller	Heavy duty anti-seize joint lubricant for stainless steel threads that is insoluble in water.

15100-1 PSDS SSTP

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SECTION 15100 PSDS SSTT

PIPING SYSTEM DATA SHEET – STAINLESS STEEL TUBING

ITEM	DESCRIPTION
Tubing	Tubing shall be manufactured from 316 alloy stainless steel to be a seamless product. Material shall meet the requirements of ASTM A269. Tubing wall thickness shall be selected to result in a minimum pressure rating of 3000 psig, or the test pressure listed in the Pipe Schedule, whichever is greater. Tubing shall not be bent without the use of an approved tube bending tool sized appropriately for tubing being bent.
Finish	Pickle interior and exterior of all stainless steel tubing, fittings, and finished assemblies following fabrication to remove all mill scale, weld inclusions and color; in accordance with ASTM A380. Passivate inside and out in accordance with ASTM A967. Outer surface shall be bead blasted per ASTM A380.
Fittings	Compression Compression fittings shall be Type 316 alloy stainless steel and shall use two ferrules to provide water or air tight seal. Fittings shall be selected to match the tubing diameter. Fittings shall not transmit torque to tubing during installation. Threaded Threaded pipe, gauge or instrument connections shall be made using stainless steel, 150-pound, threaded half-couplings conforming to ASTM A182 or ASTM A276, adapted using compression fittings at the locations specified or shown on the drawings.
Joints	Joints and tees shall be made with union, elbow, or tee fittings only as described above.
Thread Lubricant	Teflon Tape

15100-1 PSDS SSTT

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SECTION 15100 PSDS VCP

PIPING SYSTEM DATA SHEET – VITRIFIED CLAY GRAVITY SEWER PIPE

ITEM	DESCRIPTION
Pipe	All VCP to be in conformance with City of Roseville Design & Construction Standards. VCP shall be considered Extra Strength with no solution or glazing for enhanced air pressure test performance. VCP to conform to the requirements of ASTM C700, C301, C828.
Fittings	Conform to the requirements of ASTM C700 with watertight preformed joints used with VCP.
Joints	Two part polyurethane mixture joint with bell and spigot conforming to ASTM C425. Joints shall have resilient properties.
Gaskets	Conform to the requirements of ASTM C700.
Joint Lubricant	Vegetable based soap lubricant and as per Manufacturer's standard.

15100-1 PSDS VCP

SECTION 15100 PSDS WSP

PIPING SYSTEM DATA SHEET – WELDED STEEL PIPE

ITEM	DESCRIPTION
Pipe	Carbon steel ASTM A283/A283M Rev A Grade C or ASTM A285/A285M Grade C, sheet or coil, fabricated in accordance with AWWA C200, straight or spiral seam, thickness designed for 66 percent of minimum yield stress at hydrostatic test pressure, minimum thickness 1/4-inch, sizes are to be nominal outside diameters conforming to ASME B36.10M.
Linings/Coatings	Lining: Cement-Mortar: AWWA C205 Coating: Per 15100PS – Pipe Schedule and 09900 – Painting Factory Applied Lining and Coating: Fusion Bonded Epoxy per AWWA C-213, 16 mil thickness. 3M Scotchkote 206N, or equal. Field Coating: Per 15100P, Pipe Schedule and 09900 – Painting
Joints	Full penetration butt-welded, flanged, rolled grooved end where shown and/or required.
Fittings	All fittings 6" and smaller shall be forged. Fittings 8" to 24 inches may be forged or fabricated, unless shown otherwise on the Drawings. Fabricated: Carbon steel fabricated from pipe in accordance with AWWA C208; elbows to have a 22.5-degree maximum miter section angle and a radius of 2.5 times the diameter, unless shown otherwise; wyes, tees, crosses, and outlets to be reinforced in accordance with AWWA M-11. Forged: Butt-welding fittings, ASTM A234/A234M, Grade WPB meeting the requirements of ANSI B16.9. Fitting wall thickness to match adjoining pipe. Elbows to be long radius unless shown otherwise.
Flanges	AWWA C207, Class D (150 psi), Class E (250 psi), or Class F (275 psi) hub or ring type. Pressure class to match pipe.
Bolting	Carbon steel ASTM A307, Grade A hex head bolts and ASTM A563, Grade A hex head nuts. Bolts for rolled grooved ends shall be manufacturer's standard.

15100-1 PSDS WSP

ITEM	DESCRIPTION
Gaskets	<u>Potable Water and Sewage Service:</u> 1/8-inch thick, cloth-inserted rubber, corrosive acid and alkali free conforming to ANSI B16.21 and AWWA C207. Provide full-face gaskets for flat-face flanges; flat ring gaskets for raised-face flanges. Gaskets for rolled grooved ends shall be as recommended by manufacturer for sewage service.

15100-2 PSDS WSP

SECTION 15100 PSDS WSSTP**PIPING SYSTEM DATA SHEET – WELDED STAINLESS STEEL PIPE**

ITEM	DESCRIPTION
Pipe	ANSI/AWWA C220, Standard for Stainless Steel Pipe, 1/2-inch diameter and larger, latest revision. Pressure class to accommodate test pressure listed in Pipe Schedule. Type as indicated in the Piping Schedule. Minimum Schedule 10.
Linings/Coatings	None
Joints	Full penetration butt-welded, flanged, rolled grooved end, or threaded where shown and/or required.
Fittings	Fabricated: Type 304 stainless steel fabricated in accordance with AWWA C208; elbows to have a 22.5-degree maximum miter section angle, minimum of three sections; wyes, tees, crosses, and outlets to be reinforced in accordance with AWWA M-11. Forged: Butt-welding fittings, ASTM A403M, type 304 stainless steel. Fitting wall thickness to match adjoining pipe. Threaded: Piping 4" and less, threaded per ANSI B1.20.1, pressure class to accommodate test pressure, stainless grade to match pipe grade (ASTM A351 CF8 for grade 304 pipe and CF8M for grade 316 pipe).
Flanges	AWWA C207, Class D (150 psi), Class E (250 psi), or Class F (275 psi) hub or ring type. Type 304 stainless steel, pressure class to match pipe.
Bolting	Hex Bolts: ASTM A320/A320M, Type 304 stainless steel, grade 5 Nuts: ASTM F594, Type 304 stainless steel, grade 5
Gaskets	1/8-inch thick, cloth-inserted rubber, corrosive acid and alkali free for intended service conforming to ANSI B16.21 and AWWA C207; full-face gaskets for flat-face flanges; flat ring gaskets for raised-face flanges. Gaskets for rolled grooved ends shall be as recommended by manufacturer for intended service.
Thread Lubricant	Nonseizing, industrial grade thread sealing compound that is insoluble in water

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15100-2 PSDS WSSTP

City of Roseville
West Side Tank and Pump Station Project (Phase 2)
17-083

November 2019
Final Design Submittal

SECTION 15120
PIPING SPECIALTIES

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings:
 - 1. Manufacturer's data on materials, construction, end connections, ratings, overall lengths, etc.

PART 2 - PRODUCTS

2.1 SERVICE SADDLES

- A. Double-Strap Iron:
 - 1. Pressure Rating: Capable of withstanding 150 psi internal pressure without leakage or over stressing.
 - 2. Run Diameter: Compatible with outside diameter of pipe on which saddle is installed.
 - 3. Taps: Iron pipe threads.
 - 4. Materials:
 - a. Body: Malleable or ductile iron, or PVC.
 - b. Straps: Galvanized steel.
 - c. Hex Nuts and Washers: Steel.
 - d. Seal: Rubber.
 - 5. Manufacturers and Products:
 - a. PVC:
 - 1) Jones J-996
 - 2) Mueller H-13490/1/2/3/4
 - 3) Ford S912
 - 4) Or Equal
 - b. DIP:
 - 1) Jones J-996
 - 2) Mueller BR2B0474IP, BR2B0684IP, BR2B0899IP, BR2B1104IP, BR2B1314IP, BR2B1732IP
 - 3) Ford
 - 4) Or Equal

2.2 FLEXIBLE COUPLINGS

- A. Flexible Couplings (FC)
 - 1. Features:
 - a. Description: Sleeve-type flexible couplings
 - b. Pressure and Service: Same as connected piping.
 - c. Sleeve material: Carbon steel for carbon steel and ductile iron piping systems, or stainless steel for stainless steel piping systems.
 - d. Coating and Lining: All cast and carbon steel components shall be epoxy lined and coated, minimum 16 mils thickness. For potable water service, lining shall be NSF-61 certified.
 - e. Gasket: EPDM

15120-1

- f. Bolts and Nuts: Alloy steel, corrosion-resistant, prime coated. Buried couplings shall have Type 316 stainless steel bolts and nuts.
 - 2. Manufacturers and Products:
 - a. Ductile Iron Pipe:
 - 1) Dresser Piping Specialties; Style 153.
 - 2) Smith-Blair, Inc.; Style 411.
 - 3) Or Equal.
- B. Flanged Coupling Adapters (FCA)
- 1. Features:
 - a. Description: One end of adapter shall be flanged, and the other end shall have a sleeve type flexible coupling.
 - b. Pressure and Service: Same as connected piping.
 - c. Adapter body material: Cast iron or steel.
 - d. Gasket: EPDM
 - e. Bolts and Nuts: Alloy steel, corrosion-resistant, prime coated. Buried couplings shall have Type 316 stainless steel bolts and nuts.
 - 2. Manufacturers and Products:
 - a. Ductile Iron Pipe:
 - 1) Dresser Piping Specialties; Style 227.
 - 2) Smith-Blair, Inc.; Style 127.
 - 3) Or Equal.
- C. Restrained Flanged Coupling Adapters (RFCA)
- 1. Features:
 - a. Description: One end of adapter shall be flanged, and the other end shall have a sleeve type flexible coupling.
 - b. Pressure and Service: Same as connected piping.
 - c. Adapter body material: Cast iron or steel.
 - d. Gasket: EPDM
 - e. Bolts and Nuts: Alloy steel, corrosion-resistant, prime coated. Buried couplings shall have Type 316 stainless steel bolts and nuts.
 - f. Restraining lug.
 - 2. Manufacturers and Products:
 - a. Ductile Iron Pipe:
 - 1) Flange Adapters: For use with AWWA grooved end pipe and fittings, for mating to ANSI Class 125 flanged components.
 - 2) Victaulic Style 341.
 - 3) Romac Industries; RFCA
 - 4) Or Equal.
- D. Restraint Rods for Flexible Couplings: As shown on the Drawings

2.3 RESTRAINED COUPLINGS

- A. Restrained Mechanical Joint Glands (RMJ)
 - 1. Pressure Rating:
 - a. Minimum Working Pressure Rating: Not less than 150 psi.
 - b. Safety Factor: Not less than two times working pressure and shall be supported by manufacturer's proof testing.
 - 2. RMJ gland shall be designed for use with standard mechanical joint pipe. Pipe restraint products designed for use with push-on joints will not be acceptable.
 - 3. Thrust Restraint:

- a. Provide hardened steel wedges that bear against and engage outer pipe surface, and allow articulation of pipe joint after assembly while wedges remain in their original setting position on pipe surface.
 - b. Products employing set screws that bear directly on pipe will not be acceptable.
 - 4. Manufacturer and Product:
 - a. Ductile Iron Pipe Only
 - 1) EBAA Iron Sales Co.; Megalug.
 - 2) Romac Industries Inc.: RomaGrip
 - 3) Or Equal.
- B. Dismantling Joint
- 1. Pressure Rating
 - a. Minimum Working Pressure Rating: Not less than 150 psi
 - b. Pressure rating to be no less than test pressure for piping system in which the Restrained Dismantling Joint is used.
 - c. Safety Factor: Not less than two times working pressure and shall be supported by manufacturer's proof testing.
 - 2. Thrust Restraint
 - a. Provide steel tie rods, ASTM A 193 GR B7
 - b. Number and arrangement of tie rods to provide dismantling joint assembly which meets pressure rating requirement.
 - 3. Materials of Construction
 - a. Flanged Adapter Body: Steel
 - b. Follower Flange: Ductile Iron
 - c. Gasket: Buna-N, NSF-61 approved
 - d. Flange: Steel, per AWWA C207
 - e. Spigot: Steel
 - f. Studs: Type 304 stainless steel
 - g. Coating: NSF-61 approved epoxy
 - 4. Manufacturer and Product
 - a. Smith-Blair, Model 975 or 972, as required for pressure rating
 - b. Romac Industries, Style DJ400
 - c. Or Equal.

2.4 FLEXIBLE EXPANSION JOINTS

- A. Service: Water.
- B. Features:
 - 1. Flexible expansion joints shall be installed in the locations indicated on the drawings and shall be manufactured of ductile iron conforming to the material requirements of ASTM A536 and ANSI/AWWA C153/A21.53. Foundry certification of material shall be readily available upon request.
 - 2. Each flexible expansion joint shall be pressure tested prior to shipment against its own restraint to a minimum of 250 PSI. A minimum 2:1 safety factor, determined from the published pressure rating, shall apply.
 - 3. Each flexible expansion joint shall consist of an expansion joint designed and cast as an integral part of a ball and socket type flexible joint, having a minimum per ball deflection of: 25°, 4" - 8"; 20°, 10" - 12"; 15°, 14+" and 6-inches minimum expansion. The flexible expansion fitting shall not expand or exert an axial imparting thrust under internal water pressure. The flexible expansion fitting shall not increase or decrease the internal water volume as the unit expands or contracts.

4. All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating and gaskets shall meet ANSI/NSF-61.
5. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.
6. Polyethylene sleeves, meeting ANSI/AWWA C105/A21.5, shall be included for direct buried applications.

C. Manufacturers and Products:

1. FLEX-TEND Force Balanced manufactured by EBAA Iron, Inc. Eastland, TX., U.S.A.
2. Or equal.

2.5 MODULAR MECHANICAL SEAL

- A. Type: Interconnecting synthetic rubber links shaped and sized to continuously fill annular space between pipe and sleeve, blockout, or core-drilled opening in concrete slabs or walls.

B. Features:

1. Links: EPDM
2. Bolts and nuts: Type 316 stainless steel
3. Pressure plates: composite
4. Temperature range: -40 to 250 degrees Fahrenheit
5. Pressure rating: guaranteed by the manufacturer to provide a water-tight seal with a differential hydrostatic head of 40-feet of water

C. Manufacturers and Products:

1. PSI-Thunderline; Link-seal, Type S-316
2. Or equal

2.6 PIPE TO MANHOLE CONNECTORS

- A. Type: Resilient rubber male-to-female wedge-style flexible connector between a circular gravity pipe and a circular opening core-drilled into a precast or cast-in-place concrete structure.

B. Performance Requirements:

1. Able to hold 10 psi head pressure for 10 minutes with no leakage
2. Load Rating: 150 lbs per inch pipe diameter

C. Materials:

1. Body: resilient rubber material conforming to ASTM C923
2. Hardware: 300 Series Stainless Steel conforming to ASTM C923, ASTM A666 and ASTM A240

D. Manufacturer and Products

1. Trelleborg Pipe Seals Milford, Inc., Model Kor-N-Seal I – 106 Series for pipes up to 18" diameter and Kor-N-Seal II – 206 Series for pipes from 20" to 54" in diameter.
2. Or Equal

2.7 CHEMICAL CONNECTION

- A. Type: Lockable Male Cam-lock
 - 1. Materials:
 - a. Adapter and Cap: Glass-reinforced polypropylene
 - b. Gaskets and O-rings: Viton
 - c. Handles, Rings, and Pins: Stainless Steel
 - 2. Temperature Rating: 0 to 150 deg F
 - 3. Pressure Rating:
 - a. 0 deg F: 100 psi
 - b. 70 deg F: 125 psi
 - c. 150 deg F: 70 psi
 - 4. Adapter:
 - a. 2" FNPT x Male quick connect adapter
 - 5. Cap
 - a. 2" Lockable Type
- B. Manufacturers and Products:
 - 1. Banjo
 - a. Adapter: 200A with Viton gasket
 - b. Cap: 200CAP with Viton gasket
 - 2. Or equal

2.8 NON-METALLIC CORPORATION STOP WITH INJECTION QUILL

- A. Type: Complete assembly of corporation stop, injection quill, and safety chain, designed for use on process pipes 4" or larger. Construction shall be fully compatible with service conditions.
- B. Corporation Stop:
 - 1. Process Connection: 3/4" Male NPT.
 - 2. Rated 150 psi at 195 degrees F.
 - 3. ASTM D1784, Type I, Grade 1 chlorinated polyvinyl chloride body, ball, and stem, end entry.
 - 4. Threaded ends.
 - 5. Viton or Teflon seat.
 - 6. Viton O-rings and stem seals.
 - 7. Manufacturers
 - a. Jones
 - b. Mueller
 - c. Ford
 - d. AY McDonalds MFG Co
 - e. or approved equal
- C. Injection Quill:
 - 1. Process Connection: 1/2" female NPT.
 - 2. Dimensions:
 - a. Minimum 1/4" inside diameter.
 - b. Tapered injector tip, oriented to maximize chemical dispersion.
 - c. Select injection quill length such that tip of quill extends into process pipe between one-third and one-half of process pipe diameter. Minimum distance from pipe wall to injector tip shall be 2-inches.
 - 3. Materials:

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- a. Solution Tube Assembly: CPVC.
 - b. Ring, Sleeve and Capture Nut: PVDF.
- 4. Minimum Pressure Rating: 150 psi.
- D. Safety Chain:
 - 1. Designed to prevent injection quill withdrawal before corporation stop is closed.
- E. Manufacturers and Products:
 - 1. Hydro Instruments, CS-075-CPVC.
 - 2. Neptune, CS2-75-PVC.
 - 3. Or Equal

2.9 STRAINERS

- A. CPVC Y-STRAINER, 4" diameter and smaller
 - 1. Materials:
 - a. Body: CPVC
 - b. Hex Cleanout Cap: CPVC
 - c. Screen: CPVC
 - d. O-rings and gaskets: Viton
 - 2. 1/32" perforated screen
 - 3. Minimum Pressure Rating: 150 psi
 - 4. Size and connection as shown on the Drawings
 - 5. Manufacturer:
 - a. Hayward Flow Control Systems
 - b. Or Equal
- B. BRONZE Y-STRAINER, 4" diameter and smaller
 - 1. Material:
 - a. Body: Bronze
 - b. Hex Cleanout Cap: Brass or Bronze
 - c. Screen: 304 stainless steel, 1/32" perforations
 - d. O-rings and gaskets: PTFE or Teflon
 - 2. Minimum Pressure Rating: 300 psi
 - 3. Size and connection as shown on the drawings
 - 4. Manufacturer:
 - a. Apollo 59 series
 - b. Or equal

2.10 WATER METERS:

- A. General: Purchase water meters through environmental utilities department, water division.
- B. Meter Idlers:
 - 1. Manufacturers:
 - a. Ford; Idler #3-ML, #4-ML, 889-0900-NL, Idler #6-NL
 - b. Jones; E-2208
 - c. Spears; 884-017, 885-107
 - 1) No lead
 - d. Or approved equal
- C. Meter Setters

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1. Manufacturers:
 - a. Ford; 40 series
 - b. Jones
 - c. Mueller; B-24118-2N, B-2423-99000N
 - d. AY McDonald; 718 412JC
- D. Meter Spud Couplers
 1. Manufacturers:
 - a. Ford; C38-33-NL, CF31-66-NL, CF31-77-NL
 - b. Jones; E-129, E-130
 - c. AY McDonalds MFG Co; 718412JC
 - d. Mueller; H-10890N, 10-H90-99029N

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General
 1. Follow all manufacturer's directions
- B. Flexible Couplings (FC)
 1. Follow all manufacturer's directions
 2. No more than 1-inch gap between pipe ends
 3. Center flexible coupling in joint
 4. Tighten bolts in an alternating pattern to provide even tension around the coupling
 5. Tighten bolts to specified torque
 6. In buried installations, wrap coupling with plastic fastened to pipe to protect bolts and coupling from backfill material
- C. Flanged Coupling Adapters (FCA)
 1. Follow all manufacturer's directions
 2. No more than 1-inch gap between pipe plain end and flange face
 3. Tighten flange bolts prior to tightening coupling bolts
 4. Tighten bolts in an alternating pattern to provide even tension around the coupling
 5. Tighten bolts to specified torque
 6. In buried installations, wrap coupling with plastic fastened to pipe to protect bolts and coupling from backfill material
- D. Restrained Mechanical Joint Glands (RMJ)
 1. Follow all manufacturer's directions
 2. Tighten mechanical joint gland bolts before tightening restraint lugs
 3. Tighten restraint lugs until torque head breaks off
 4. In buried installations, wrap joint with plastic fastened to pipe to protect bolts and coupling from backfill material
- E. Pressure Gages
 1. Follow all manufacturer's directions
 2. Install diaphragm seals where process liquid would be detrimental to gage life (wastewater, chemical service, etc.)
 3. Check gage accuracy
- F. Victaulic Couplings

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1. Install in accordance with manufacturer's latest recommendations. Follow the instructions listed in the latest Victaulic I-300 assembly manual.
2. Pipe ends shall be clean and free from indentations and projections in the area from pipe end to groove.
3. The gasket style and elastomeric material (grade) shall be verified as suitable for the intended service as specified.
4. Provide on site training for contractor's field personnel in the proper use of grooving tools, application of groove, and product installation.
5. Gaskets used on potable water systems shall be UL classified in accordance with ANSI/NSF-61.
6. Victaulic's factory trained representative shall periodically visit the job site and review installation. Contractor shall remove and replace any improperly installed products.

+ + END OF SECTION + +

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SECTION 15200

VALVES AND OPERATORS

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings:
 - 1. Product data sheets for make and model.
 - 2. Complete catalog information, descriptive literature, specifications, and identification of materials of construction.
 - 3. Certificate of Compliance for: Butterfly valves; full compliance with AWWA C504.
- B. Tests and inspection data.
- C. Operation and Maintenance Data as specified in Section 01330, SUBMITTAL PROCEDURES.

1.2 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. In accordance with manufacturer's directions.

PART 2 - PRODUCTS

2.1 GENERAL

- A. All valves shall be the same size as the pipe in which they are installed, unless specifically noted otherwise on the Drawings.
- B. All valves shall include all appurtenant parts (operators, chainwheels, handwheels, valve stems, floor stands, gear boxes, operating nut, etc.) for a complete operating valve.
 - 1. Valve shall be, as much as practical, fully factory assembled.
- C. All valves shall open by turning counter-clockwise. Maximum force required for operation shall be 40 lbs.
- D. Where Lead-Free Bronze or Brass is specified, materials shall be in compliance with California Health & Safety Code Section 116875. Not more than a weighted average of 0.25 percent of the wetted surface of the valve shall be lead. Valve shall be provided with a "hang tag" or other marking that easily identifies the valve as Lead-Free.
- E. Coatings and Linings:
 - 1. Provide factory-applied coatings as described herein.
 - 2. Where liquid epoxy coatings are specified, coatings shall conform to AWWA C550.
 - 3. Field coat the exterior of all valve bodies with the same coating as is required for the adjacent pipe in Section 09900, PAINTING and Section 15100, PIPE AND FITTINGS, unless otherwise specified.
- F. Nuts, Bolts and Washers
 - 1. Hex Bolts: ASTM A320/A320M, Type 304 stainless steel, Grade B8, Class 2

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2. Nuts: ASTM F594, Type 304 stainless steel, Grade B8, Class 2
3. Washers: Type 304 stainless steel

2.2 BALL VALVES

A. **BAV-01LF:** Lead-Free Ball Valve, 3 inches and smaller:

1. Service: Potable Water
2. Features:
 - a. Two-piece, end-entry type
 - b. Lead-Free Brass & Bronze Materials in compliance with California Health & Safety Code Section 116875. Not more than a weighted average of 0.25 percent of the wetted surface of the valve shall be lead. Valve shall be provided with a "hang tag" or other marking that easily identifies the valve as Lead-Free.
 - c. Lead-Free Bronze (Alloy C89836, C89833 or C69300) body
 - d. Chrome-plated lead-free brass (Alloy C27450 or C69300) ball
 - e. RTFE or PTFE seats and packing
 - f. Zinc-coated steel hand lever operator with vinyl grip
 - g. Rated 600-psig WOG, 150-psig SWP.
3. Manufacturer and Products:
 - a. Threaded:
 - 1) Apollo 70LF100 Series
 - 2) Milwaukee; UPBA100
 - 3) Nibco T-685-80-LF
 - 4) Or Equal
 - b. Soldered:
 - 1) Apollo 70LF200 Series
 - 2) Milwaukee; UPBA150
 - 3) Nibco S-685-80-LF
 - 4) Or Equal

B. **BAV-03:** Stainless Steel Ball Valve, 3 Inches and Smaller

1. Service: Water, air.
2. Features:
 - a. Threaded ends
 - b. Rated minimum 800 psig WOG (Water-Oil-Gas)
 - c. Stainless steel body
 - d. Polished stainless steel ball
 - e. Teflon seat
 - f. Stainless steel lever-type handle
3. Manufacturers and Products:
 - a. Apollo, Type 76
 - b. Watts Type S-FBV-1
 - c. Or Equal

C. **BAV-06:** CPVC Ball Valve 4 Inches and Smaller:

1. Service: Water, Chemical Duty.
2. Features:
 - a. Rated 150 psi at 73 degrees F
 - b. ASTM D1784, Type I, Grade 1 chlorinated polyvinyl chloride body, ball, and stem, end entry
 - c. Double union design
 - d. Flanged-end if noted in Valve Schedule, otherwise solvent-weld socket ends
 - e. Viton or Teflon seat

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- f. Viton O-rings and stem seals
 - g. Vented ball
 - 3. Manufacturers and Products:
 - a. Nibco; Chemtrol Tru-Bloc.
 - b. ASAHI/America; Type 21/21A.
 - 4. Or Equal.
- D. **CRP-01:** Ball Corporation Valve 3/4 Inch to 2 Inch:
 - 1. Features:
 - a. Rated 300 psi at 73 degrees F
 - b. Brass alloys C89520 or C89833 with a maximum lead content of 0.25% by weight. Brass alloys shall meet AWWA C800, paragraph 4.1.2.
 - c. Full round-port ball valve, no reduced port permitted
 - d. Ends as required
 - e. Double O-ring stem seals
 - f. Key operator
 - 2. Manufacturers and Products:
 - a. Mueller Company; 300N Series Ball Corporation Valves
 - b. Ford Meter Box Company; FB-NL Series Ballcorp Ball Corporation Valves
 - c. Or Equal.

2.3 BUTTERFLY VALVES

- A. **BFV-10:** Butterfly Valve 4 Inches to 72 Inches:
 - 1. Service: Water.
 - 2. Features:
 - a. Flanged end, short body type.
 - b. AWWA C504, Class 150B.
 - c. Features:
 - 1) Body:
 - a) Cast iron
 - 2) Disc:
 - a) Cast or ductile iron disc
 - b) On valves 24-inch and larger, provide non-hollow discs
 - 3) Shaft:
 - a) Type 304 stainless steel shaft,
 - b) Self-adjusting V-type or O-ring shaft seals.
 - 4) Seat:
 - a) Valves 3- to 20- inch:
 - 1. Buna N or NBR rubber seat bonded or molded in body only.
 - 2. Elastomer seats which are bonded or vulcanized to the body shall have adhesive integrity of bond between seat and body assured by testing, with minimum 75-pound pull in accordance with ASTM D429, Method B.
 - b) Valves 24-inch and larger:
 - 1. Buna N or NBR rubber seat retained within a dovetail groove in the valve body and mechanically locked in place by use of an epoxy filler.
 - 2. Valve to be adjustable from either side
 - 3. Valves using seat fasteners or retaining rings are not allowed
 - c) Provide stainless steel seating surface.
 - 5) Coatings and Linings:
 - a) Liquid epoxy, 12 mil minimum, for valve interior and exterior.
 - b) For potable water applications, epoxy lining shall be NSF 61 approved.

- c) Epoxy to be holiday free
- d. Valve shall be suitable for throttling operations and infrequent operation after periods of inactivity.
- e. Valve shall be bubble-tight with rated pressure applied from either side.
- f. Smooth flow stream on valve body interior
 - 1) No travel stops for disc on interior of body.
 - 2) Isolate metal-to-metal thrust bearing surfaces from flowstream.
- 3. Manufacturers and Products:
 - a. Henry Pratt Company
 - 1) 3" to 12": Model 2FII
 - 2) 16" to 72": Groundhog
 - b. Mueller
 - 1) 16" to 72": Lineseal III
 - c. Or Equal.

2.4 CHECK VALVES

- A. **CKV-06:** CPVC Ball Check Valve 4" and smaller
 - 1. Service: Water, Chemical Duty.
 - 2. Features:
 - a. Materials:
 - 1) CPVC body and ball, conforming to ASTM D1784 Cell Classification 23567-A.
 - 2) FPM (FKM) uni-seats and seal
 - b. Connections: True union or flanged as shown on the Drawings
 - c. 150 psi minimum pressure rating
 - d. 5 psi minimum shutoff
 - 3. Manufacturers and Products:
 - a. Asahi/America Inc.
 - b. Nibco, Chemtrol True Union Ball Check (3" and smaller)
 - c. Or Equal
- B. **CKV-10:** Swing Check Valve (2" to 24")
 - 1. Service: Water.
 - 2. Style: Swing Check, outside lever and spring, flanged-end connections
 - 3. General: Valves shall comply with AWWA C508.
 - 4. Body: Valve body and cover shall be fabricated with cast iron conforming to ASTM A 126 with flanged ends conforming to ANSI B16.1.
 - 5. Disc: The valve disc shall be fabricated of cast iron or ductile iron and rubber faced.
 - 6. Seat and Rings: The valve seat and rings shall be fabricated of bronze conforming to ASTM B62 or B148 or of Buna-N.
 - 7. Disc Bolt: A307 Steel
 - 8. Hinge: Ductile Iron
 - 9. Hinge Pin: The hinge pin shall be fabricated of stainless steel.
 - 10. Provide check valve with limit switch.
 - 11. Coatings and Linings:
 - a. Liquid epoxy, 12 mil minimum, for valve interior and exterior.
 - b. For potable water applications, epoxy lining shall be NSF 61 approved.
 - 12. Manufacturer:
 - a. M&H; Style 259-02, Lever and Spring
 - b. Milliken; Figure 8001, Lever and Spring
 - c. Or equal.
- C. **CKV-30:** Globe-Style Silent Check Valve

1. Service: Water
2. Working Pressure: 150 psi
3. Features:
 - a. The operation of the valve shall not be affected by the position in the pipeline.
 - b. The valve disk shall be concave to the flow in the pipeline and guided by center shaft.
 - c. The check valve shall have an open area equal to or greater than the pipe diameter.
 - d. Valves 10" and smaller shall be capable of mounting directly to a butterfly valve.
 - e. Check valve shall be spring-loaded, normally-closed by means of a heavy-duty center-guided, stainless steel spring. Flow from the pumps shall cause the valve to open and upon pump shut down, the torsion spring will shut the valve before reverse flow starts and at a point of zero velocity of non-slam closure.
 - f. Ends: ANSI B16.1 Class 125 flanged
4. Materials:
 - a. Body: cast or ductile iron.
 - b. Seat and disk/plug: lead-free bronze or Type 316 Stainless Steel.
 - c. Seating shall be resilient and watertight. The sealing element shall be Buna-N.
 - d. Torsion spring: stainless steel.
 - e. All component parts shall be field replaceable.
5. Manufacturer:
 - a. Apco Series 600
 - b. Valmatic Type 1800.1
 - c. Golden Anderson Model 280
 - d. Or Equal

2.5 GATE VALVES

A. **GAV-01LF:** Lead Free Gate Valve, 3 Inches and Smaller

1. Service: Potable Water
2. Features:
 - a. Lead-Free Brass & Bronze Materials in compliance with California Health & Safety Code Section 116875. Not more than a weighted average of 0.25 percent of the wetted surface of the valve shall be lead. Valve shall be provided with a "hang tag" or other marking that easily identifies the valve as Lead-Free.
 - b. Screwed bonnet
 - c. Single solid wedge gate
 - d. Non-rising stem
 - e. Rated 200-pound WOG.
3. Manufacturers and Products:
 - a. 2" – 2 ½" Threaded:
 - 1) Nibco-113 bronze, threaded end.
 - 2) Or Equal
 - b. Soldered:
 - 1) Stockham; LFB-104, soldered end.
 - 2) Crane; LF1320, soldered end.
 - 3) Or Equal

B. **GAV-10:** Resilient-Seated Gate Valve, 2 Inches to 24 Inches:

1. Service: Water.
2. Features:
 - a. Conforms to AWWA C509 (2") or AWWA C515 (3" to 24")
 - b. Iron body

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- c. Resilient seat, bronze mounted
- d. Full port
- e. Valve Ends:
 - 1) Mechanical joint ends for buried service, unless shown otherwise on drawings or valve schedule
 - 2) Flanged ends for exposed service
- f. Non-rising stem
- g. Actuator for Buried Service:
 - 1) Stem extension, as required, to bring operating nut to within 12" of ground surface.
 - 2) 2-inch operating nut
- h. Actuator for Exposed Service:
 - 1) Handwheel
- i. Design working water pressure: 250 psig
- j. Coatings and Linings:
 - 1) Liquid epoxy, 12 mil minimum, for valve interior and exterior.
 - 2) For potable water applications, epoxy lining shall be NSF 61 approved.
- 3. Manufacturers and Products:
 - a. Mueller 2360 RS
 - b. M&H Valve; 4067R W
 - c. Clow: AFC
 - d. Or Equal.

2.6 PLUG VALVES

- A. **PLV-10:** Eccentric Plug Valve, 3 Inches to 20 Inches:
 - 1. Service: Water, sewage.
 - 2. Features:
 - a. Non-lubricated type.
 - b. Drip-tight shutoff with pressure from either direction.
 - c. Features:
 - 1) Body: Cast iron Type ASTM A126 Class B.
 - 2) Plug:
 - a) Cast iron or 316 stainless steel.
 - b) Round or rectangular port of no less than 80 percent of connecting pipe area.
 - c) Coated with Buna-N, Chloroprene, or Hycar.
 - 3) Seats: Type 316 stainless steel or nickel.
 - 4) Stem:
 - a) Bearing: Self-lubricating stainless steel or reinforced Teflon.
 - b) Seal:
 - 1. Multiple V-rings, U-cups, or O-rings of nitrile rubber.
 - 2. Externally adjustable and re-packable without removing the bonnet or actuator from the valve under pressure.
 - c) Provide upper and lower grit seals on stem.
 - 5) Ends:
 - a) Exposed service: Flanged per ANSI B16.1 or grooved, as shown on Drawings or indicated on Valve Schedule.
 - b) Buried service: Mechanical joint per ANSI A21.11.
 - 6) Actuators:
 - a) Exposed:
 - 1. Valves 3 Inches through 6 Inches: Wrench lever manual actuator.

- 2. Valves 8 Inches through 20 Inches: Totally enclosed, geared, manual actuator with handwheel
 - b) Buried: 2-inch nut per Valve Schedule.
- 7) Coatings and Linings:
 - a) Liquid epoxy, 12 mil minimum, for valve interior and exterior.
 - b) For potable water applications, epoxy lining shall be NSF 61 approved.
- d. Pressure Rating:
 - 1) Valves 3 Inches through 12 Inches: 175 psi.
 - 2) Valves 14 Inches through 20 Inches: 150 psi.
- 3. Manufacturers and Products:
 - a. DeZurik; Style PEC.
 - b. Pratt; Ballcentric.
 - c. Milliken; Millcentric.
 - d. Or Equal.

2.7 HOSE VALVES

- A. **HSV-01:** ¾" Angle-Pattern Hose Valve, non frost-proof
 - 1. Service: Water.
 - 2. Features:
 - a. ¾-inch NPT female inlet,
 - b. ¾-inch male hose thread outlet,
 - c. Heavy rough brass body rated 125 psi,
 - d. Removable handle,
 - e. Atmospheric vacuum breaker conforming to ASSE Standard 1011 and IAPMO code
 - 3. Manufacturers and Products:
 - a. Acorn; 8131
 - b. Or Equal.
- B. **HSV-03:** Non-Freeze Post Hydrant, ¾" through 2"
 - 1. Features:
 - a. Bronze Non-Freeze Post Hydrant with valve and drain hole below grade and stem extension to 30-inch high post so that hose connection is 30" above grade
 - b. Provide NPT threaded drain hole where drawings show a piped drain.
 - c. Cast Iron Casing Guard
 - d. T-handle key
 - e. Threaded ends, Female NPT inlet and male hose connection outlet
 - f. Atmospheric vacuum breaker conforming to ASSE Standard 1011 and IAPMO code on ¾" size
 - 2. Manufacturers and Products
 - a. Jay R Smith, Figures 5910, 5911, 5912, 5913, 5914
 - b. Zurn, Figures Z1385, Z1390
 - c. Or Equal
 - 3. Manufacturers and Products:
 - a. Jay R Smith, Figure 5509QT
 - b. Zurn, Figure Z1330-C
 - c. Or Equal.

2.8 FIRE HYDRANTS

- A. **HYD-20:** WET-BARREL FIRE HYDRANT
 - 1. Service: Water.
 - 2. Features:

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- a. Hydrant shall be manufactured in accordance with AWWA Standard C-503
- b. Hydrant head shall be made of gray cast iron, meeting ASTM A126 Class B specifications. It shall be capable of withstanding a hydrostatic test pressure of 4 (four) times the working water pressure without stressing the material beyond its yield point per Section 4.6.3.2 of AWWA C503.
- c. Valved Ports:
 - 1) Wet-barrel fire hydrants shall feature independently-valved ports. The working parts shall be engineered to function as a unit and to give trouble-free service over 200 pounds working pressure and tested to 400 pounds hydrostatic pressure.
 - 2) Fire hydrants shall be provided with two outlet ports: one 2-1/2" diameter and one 4-1/2" diameter.
- d. All hydrants shall be permanently marked to identify the model number of the hydrant, the manufacturer and the year in which the hydrant was manufactured.
- e. Hose and pumper nozzle threads shall be in conformance with the standard for fire hose connections, NFPA 1963, unless otherwise specified.
- f. Protector caps shall be grey cast iron unless otherwise specified by the purchaser. They shall be securely chained to the hydrant barrel and furnished an inner gasket.
- g. Standard nut size of valve/stem and protector caps shall be of pentagonal shape and furnished with a nut of 1 1/8" measured from point to flat of the pentagon.
- h. Coatings and Linings:
 - 1) Liquid epoxy lining, 12 mil minimum, for fire hydrant interior.
 - 2) For potable water applications, epoxy lining shall be NSF 61 approved.
 - 3) Exterior of hydrants shall receive a primer coat and be furnished with a traffic yellow enamel finish coat for potable water, or a purple enamel finish coat for recycled water.
- 3. Manufacturers and Products
 - a. Jones, Model 4040
 - b. Clow Valve Company, Model 850
 - c. Or equal
- 4. Hydrant Bury:
 - a. South Bay Foundry, MJ
 - b. Clow, MJ
 - c. Or approved equals
- 5. Hydrant Bury Extensions:
 - a. South Bay Foundry, MJ
 - b. Clow; Model CW-EXT-BO
 - c. Tyler
 - d. Or approved equal

2.9 CONTROL VALVES

- A. **PRV-01LF:** Lead-Free Pressure Regulator, 1/2" to 1"
 - 1. Service: Potable Water
 - 2. Type: Type: Adjustable spring-loaded, self-contained pressure regulator
 - 3. Materials:
 - a. Body: Lead-Free Brass & Bronze Materials in compliance with California Health & Safety Code Section 116875. Not more than a weighted average of 0.25 percent of the wetted surface of the valve shall be lead. Valve shall be provided with a "hang tag" or other marking that easily identifies the valve as Lead-Free.
 - b. Trim, Valve Seat and Spring: Stainless Steel
 - c. Diaphragm: Reinforced Buna-N

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4. Pressures:
 - a. Maximum Inlet Pressure: 300 psig
 - b. Outlet Pressure Range: 15 to 70 psig.
 5. Manufacturer/Model:
 - a. Watts Model LF223
 - b. Or Equal.
- B. **ALT-01:** Electronic Control Valve (Altitude Valve with Pressure Relief):
1. Service: Water.
 2. Design Conditions:
 - 1) Valve Size: 16-inch.
 - 2) Flow: 4,000 - 11,000 gpm
 - 3) Inlet Pressure: 50 – 90 psi
 - 4) Outlet Pressure: 0 – 20 psi
 - 5) Initial Pressure Relief Setting: 100 psi (field adjustable)
 3. Warranty:
 - a. The Control Valve manufacturer shall warrant the valve to be free of defects in material and workmanship for a period of three years from date of shipment provided the valve is installed and used in accordance with all applicable instructions. Electrical components shall have a one-year warranty.
 4. Function:
 - a. The Electronic Control Valve shall be capable of controlling downstream pressure, rate of flow, upstream pressure sustaining, tank level control (altitude and modulating), valve position, blending, pressure management or select combinations of any of these applications. Solenoid pilot controls equipped onto the electronic control valve are actuated by electrical signals received from the PLC and/or a local VC-22D electronic valve controller (see Electrical Drawings). The solenoid pilots either add or relieve line pressure from the cover chamber of the control valve, causing it to open or close, ensuring the process variable signal follows the set-point command signal. This enables remote control over the electronic control valve operations. The process variable signal would come from a flow meter, pressure sensor or other rapid fluctuating process. The electric solenoid pilot controls will also be combined with hydraulic Relief Override and electronic fail-safe valve closure upon loss of power. Upon receiving the remote setpoint command from the PLC or a local command from the electronic valve controller, the electronic valve shall modulate and maintain the desired setpoint value. When the feedback signal deviates from the setpoint, the appropriate opening or closing solenoid on the valve will pulse. As the feedback signal approaches the setpoint, this on/off pulse time will gradually decrease to smoothly modulate the valve to setpoint. When the feedback signal is within a programmable dead band, the opening and closing solenoids will lock the cover and the electronic valve will maintain position.
 5. Materials:
 - a. Body and Cover: Ductile Iron-ASTM A536.
 - b. Main Valve Trim: Stainless Steel.
 - c. Seat: Stainless Steel.
 - d. Stem, Nut and Spring: Stainless Steel.
 - e. Seal Disc: Buna-N.
 - f. Diaphragm: Nylon Reinforced Buna-N.
 - g. Internal Trim Parts: Stainless Steel, Bronze and Brass.
 - h. Pressure Rating: Class 150 (250 psi max).
 - i. Temperature Range: Water to 180-deg F.
 - j. Any other wetted metallic parts: Stainless Steel, Bronze and Brass.

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- k. Coating and Lining:
 - 1) Fusion Bonded Epoxy (interior and exterior) per AWWA C116-03.
 - 2) For potable water applications, epoxy lining shall be NSF 61 approved.
- 6. Accessories:
 - a. Position Indicator.
 - b. Analog valve position status transmitter, 4-20 mA to indicate 0-100% of open position to PLC.
 - c. Anti-Cavitation Trim Package.
 - d. Externally mounted wye strainer with flush valve on supply line.
 - e. Nameplates:
 - 1) Each Control Valve and associated pilot(s) shall be provided with an identifying nameplate.
 - 2) Nameplates, depending on type and size of control valve, shall be mounted in the most practical position possible, typically on the inlet side of the valve body.
 - 3) Nameplates shall be brass and a minimum of 3/32" thick, 3/4" high and 2-3/4" long, unless otherwise approved by Engineer.
 - 4) Pertinent control valve data shall be etched or stamped into the nameplate. Data shall include control valve Catalog number, function, size, material, pressure rating, end-connection details, type of pilot controls used and control adjustment range.
- 7. Manufacture:
 - 1) Main Valve:
 - a) The main valve shall be hydraulically operated, single diaphragm actuated, globe or angle pattern as shown on the Drawings. The valve shall consist of three major components; the body with seat installed, the cover with bearing installed and the diaphragm assembly. The diaphragm assembly shall be the only moving part and shall form a sealed chamber in the upper portion of the valve, separating the operating pressure from line pressure. Packing glands, stuffing boxes and/or rolling diaphragm technology will not be permitted and there shall be no pistons operating the main valve or pilot controls. No fabrication or welding shall be used in the manufacturing process. Y-pattern valves shall not be permitted. Main valve shall be certified by NSF/ANSI Standard 61 as a safe drinking water system component.
 - 2) End Connections:
 - a) End Connections for control valve shall be flanged per ASME/ANSI B16.42, Class 150.
 - 3) Main Valve Body:
 - a) No separate chamber(s) below the diaphragm shall be allowed between the main valve cover and body. No fabrication or welding shall be used in the manufacturing process.
 - b) The valve shall contain a resilient, synthetic rubber disc with a rectangular cross-section contained on three- and one-half sides by a disc retainer and forming a tight seal against a single removable seat insert. No O-ring type discs (circular, square, or quad type) shall be permitted as the seating surface. The disc guide shall be of the contoured type to permit smooth transition of flow and shall hold the discs firmly in place. The disc retainer shall be of a sturdy one-piece design capable of withstanding opening and closing shocks. It must have straight edge sides and a radius at the top edge to prevent excessive diaphragm wear as the diaphragm flexes across this surface. No hours-glass shaped disc retainers shall be permitted, and no V-type or slotted-type disc guides shall be used.

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- c) The diaphragm assembly containing a non-magnetic stainless-steel stem; of sufficient diameter to withstand high hydraulic pressures and shall be fully guided at both ends by a bearing in the main valve cover and an integral bearing in the valve seat. The valve seat shall be a solid, one-piece design and shall have a minimum five-degree taper on the seating surface for a positive, drip-tight shut off. No center guides shall be permitted. The stem shall be drilled and tapped in the cover end to receive and affix such accessories as may be deemed necessary. The diaphragm assembly shall be the only moving part and shall form a sealed chamber in the upper portion of the valve, separating the operating pressure from the line pressure. No bolts or cap screws shall be permitted for use in the construction of the diaphragm assembly.
 - d) The flexible, non-wicking, FDA approved diaphragm shall consist of nylon fabric bonded with synthetic rubber compatible with the operating fluid. The diaphragm's center hole for the main valve stem must be sealed by the vulcanized process or a rubber grommet sealing the center stem hole from the operating pressure. The diaphragm must withstand a Mullins Burst Test of a minimum of 600 X per layer of nylon fabric and shall be cycled tested 100,000 times to insure longevity. The diaphragm shall not be used as the seating surface. The diaphragm shall be fully supported in the valve body and cover by machined surfaces which support no less than one-half of the total surface area of the diaphragm in either the fully opened or fully closed position. Bellofram type rolling diaphragms shall not be permitted.
 - e) The main valve seat and stem bearing in the valve cover shall be removable. The cover bearing and seat in the 6" and smaller size valve shall be threaded into the cover and body. The valve seat in the 8" and larger size valves shall be retained by flat head machine screws for ease of maintenance. The lower bearing of the valve stem shall be contained concentrically within the seat and shall be exposed to the flow on all sides to avoid deposits. To insure proper alignment of the valve stem, the valve body and cover shall be machined with a locating lip. No "pinned" covers to the valve body shall be permitted. Cover bearing, disc retainer and seat shall be made of the same material. All necessary repairs and/or modifications other than replacement of the main valve body shall be possible without removing the valve from the pipeline. The valve shall be designed such that both the cover assembly and internal diaphragm assembly can be disassembled and lifted vertically straight up from the top of a narrow opening/vault. Y-pattern valves shall not be permitted. The seat shall be of the solid one piece design. Two piece seats or seat inserts shall not be permitted. Packing glands and/or stuffing boxes shall not be permitted.
- 4) Pilot Control System:
- a) The pilot control shall be through two direct acting two-way solenoid pilot valves controlled by an external power source. The pilot control system shall include strainers and solenoid manual by-pass valves. The pilot control system shall utilize Stainless Steel control tubing and fittings. The solenoid pilot valves either add or relieve line pressure from the cover chamber of the main valve, causing it to open or close as directed by the electronic controller. Solenoids shall have NEMA IV enclosures.
 - b) Materials for Solenoid Pilot Controls:
 - 1. Body: Stainless Steel.
 - 2. Pilot Trim: Stainless Steel.

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3. Seals and Disc: NBR.
 4. Core and Plugnut: 430F Stainless Steel.
 5. Core Springs: 302 Stainless Steel.
 6. Shading Coil: Copper.
 7. Disc-Holder: CA.
 8. Core Guide: CA.
 9. Connections: FNPT.
 10. Pressure Rating: 400 psi max.
 11. Temperature Range:
AC: Water to 125 deg-F max.
DC: Water to 104 deg-F max.
 12. Power Supply: 120 VAC, 60 Hz.
 13. Enclosure: NEMA Type1
 14. Control Tubing: Stainless Steel.
 15. Control Fittings: Stainless Steel.
8. Factory Assembly:
 - a. Each control valve shall be factory assembled.
 - b. For all control valves, the factory assembly shall include the complete main valve, pilot valve(s), and all associated accessories and control equipment.
 - c. During factory assembly the control valve manufacturer shall make all necessary adjustments and correct any defects.
 9. Factory Testing:
 - a. Each control valve shall be factory tested.
 - b. Tests shall conform to approved test procedures.
 - c. The standard factory tests shall include a valve body and cover leakage test, seat leakage test and a stroke test. Control valves and pilot valves, in the partially open position, with both ends closed off with blind flanges (valves) and pipe plugs (pilots), shall be subject to an air test. The applied air pressure shall be 90 psi minimum. All air pressure tests shall be applied for a minimum of 15 minutes. No visible leakage is permitted through the valve seat, the pressure boundary walls of the valve body, valve cover, pilot body, pilot cover or the body-cover joint.
 - d. Control valve manufacturer shall, upon request, offer additional testing, such as high-pressure hydrostatic testing, positive material inspection testing, ferrite testing, liquid penetration inspection testing, magnetic particle examination testing and radiographic examination testing.
 10. Field Testing:
 - a. A direct factory representative shall be made available by the equipment supplier for start-up service, inspection and necessary adjustments.
 11. Manufacturers and Products:
 - a. Cla-Val Company Model 131-17 Electronic Interface Control Valve, Equipped to close on Power Failure and Pressure Relief Override as manufactured by Cla-Val Co., Newport Beach, CA 92659-0325
 - b. Or Equal.

2.10 AIR RELIEF AND VACUUM VALVES

- A. **AVV-01:** Air/Vacuum Valve, ½" to 3"
 1. Service: Water.
 2. Features:
 - a. Automatically exhausts large amounts of air during pipeline filling and allows large quantities of air to enter pipeline during pipeline draining to break vacuum.

- b. Once air has been exhausted, uses water pressure to close valve. In CLOSED position, seat against resilient seat to prevent water leakage.
 - c. Rated 200 psi working pressure.
 - d. Provide vent hose or piping and route discharge line to nearest drain/structure.
 - e. Cast iron, ductile iron, or semi-steel body and cover with stainless steel float and trim.
 - f. Model determined by size indicated in Valve Schedule or on Drawings.
 - 3. Manufacturers and Products:
 - a. APCO Valve and Primer Corp.; 140 Series.
 - b. Val-Matic Valve; 104S/38 Series.
 - c. Or equal.
- B. AVV-02: Air/Vacuum Valve for Vertical Turbine Pumps**
- 1. Service: Water.
 - 2. Features:
 - a. Automatically exhausts large amounts of air when pump starts and allows large quantities of air to re-enter the pump column when pump stops to break vacuum.
 - b. Once air has been exhausted, uses water pressure to close valve. In CLOSED position, seat against resilient seat to prevent water leakage.
 - c. Discharge orifice shall be fitted with a double-acting throttling device to automatically regulate and restrict air venting and to establish pressure loading on rising suction column of water to minimize air surging. On pump stop, throttling device shall automatically open to allow full line unrestricted air re-entry to prevent vacuum from forming in the pump column.
 - d. Rated 200 psi working pressure
 - e. Cast iron, ductile iron, or semi-steel body and cover with stainless steel float and trim.
 - f. Includes butterfly isolation valve, surge check valve, air release valve with ball isolation valve, and mushroom vent.
 - g. Model determined by size as indicated in Valve Schedule or on Drawings.
 - 3. Manufacturers and Products:
 - a. APCO Valve and Primer Corp.; Series 1204 with 200A series air release valve.
 - b. Val-Matic Valve; 100ST Series.
 - 4. Or equal.
- C. CARV-01: Combination Air Release and Vacuum Valve, Water Service up to 150 psi:**
- 1. Service: Water.
 - 2. Features:
 - a. Combines the operating features of both an air vacuum valve and air release valve, allowing to vent or re-enter system freely in either direction.
 - b. Once air has been exhausted, uses water pressure to close valve. In CLOSED position, seat against resilient seat to prevent water leakage.
 - c. Single-body type
 - d. Rated 150 psi working pressure, orifice size by manufacturer (minimum orifice size 3/32-inch).
 - e. Cast iron, ductile iron, or semi-steel body, cover with stainless steel float and trim.
 - f. 2-inch inlet, 2-inch outlet.
 - g. Provide No. 16 Mesh 316SS screen on inlets and outlets.
 - h. Provide vent hose or piping and route discharge line to nearest drain/structure.
 - i. Coatings and Linings:
 - 1) Liquid epoxy, 12 mil minimum, for valve interior and exterior.
 - 2) For potable water applications, epoxy lining shall be NSF 61 approved.

3. Manufacturers:
 - a. APCO Valve and Primer Corp., Model 145C
 - b. Val-Matic Valve; Model VM-202C.2
 - c. Or equal.

2.11 BACKFLOW PREVENTERS

- A. **BFP-01:** Reduced-Pressure Principle Backflow Prevention Assembly:
 1. Service: Water.
 2. Materials:
 - a. Body: lead-free bronze materials or epoxy-coated cast/ductile iron.
 - b. Test cocks: lead-free bronze
 - c. Ball valves: lead-free bronze
 - d. Valve Seats: stainless steel or Noryl
 3. Features:
 - a. Two check valves with an independent relief valve between the valves,
 - b. Two resilient-seated isolation gate valves or ball valves
 - c. Test cocks, in accordance with AWWA C511
 - d. Rated 175 psi maximum working pressure,
 - e. Meets requirements of USC Foundation For Cross-Connection Control and Hydraulic Research.
 - f. Ends: as required for installation as shown on Drawings
 - g. Coatings and Linings (steel and cast iron):
 - 1) Liquid epoxy, 12 mil minimum, for valve interior and exterior.
 - 2) For potable water applications, epoxy lining shall be NSF 61 approved.
 4. Backflow assembly color: Forest Green
 5. Manufacturers and Products:
 - a. Watts; Model 099, 909, 709 DCDA, 909 RPDA
 - b. Wilkins; Model 975, 375ASt, 375 ASTR, 350ASTDA
 - c. Ames; Model 300 DCDA stainless, 4000RP stainless or epoxy, 4000B, 5000 RPDA epoxy
 - d. Conbraco/Appollo: Model 40-200 series
 6. Backflow Assembly Support Stands
 - a. Placer Waterworks Series PW/PS
 - b. Or approved equal
 7. Backflow Assembly Support Stands Saddle
 - a. Placer Waterworks series PW/SDL
 - b. Or approved equal
 8. Blocking for Boxes:
 - a. Slump Block
 - b. Or approved equal

2.12 OPERATORS

- A. General:
 1. Operator force not to exceed 40 pounds under any operating condition, including initial breakaway. Gear reduction operator when force exceeds 40 pounds.
 2. Operator self-locking type or equipped with self-locking device.
 3. Provide position indicator on all valves.
 4. Worm and gear operators one-piece design worm-gears of gear bronze material. Worm hardened alloy steel with thread ground and polished. Traveling nut type operators threaded steel reach rods with internally threaded bronze or ductile iron nut.

5. Valve handles, wheels, etc. to be designed to accommodate a padlock.

B. Manual Operator:

1. Galvanized and painted handwheels.
2. Lever operators allowed on quarter-turn valves 8 inches and smaller.
3. Cranks on gear type operators.
4. For all valves above 5'-0" above adjacent working surface (finished floor or finished grade), provide chain wheel operator with tiebacks
5. For all exposed valves below adjacent working surface (finished floor or walkway), provide extension stem, floor stands, and other accessories to permit operation from 2'-6" above adjacent working surface.
6. For all buried valves 3" and larger, provide stem extension, valve bonnet, valve box and 2" AWWA operating nut such that operating nut is within 12" of adjacent finished grade.
 - a. For small-diameter buried valves, provide cross-shaped handle for operating with forked key.
7. Valve Extension Manufacturer:
 - a. Placer Waterworks Extension
 - b. Or approved equal

2.13 ACCESSORIES

A. T-Handled Operating Wrench:

1. One each galvanized operating wrench, 4 feet long.
2. Manufacturers and Products:
 - a. Mueller; No. A-24610.
 - b. Clow No.; F-2520.
 - c. Or Equal.

B. Cast Iron Valve Box: Designed for traffic loads, sliding type, with minimum of 6-inch ID shaft.

1. Box: Cast iron with minimum depth of 9 inches.
2. Lid: Cast iron, minimum depth 3 inches, marked WATER.
3. Extensions: Cast iron.
4. Manufacturer:
 - a. Christy (H-20)
 - b. Or approved Equal

PART 3 - EXECUTION

3.1 VALVE SCHEDULE

- A. A Valve Schedule has been attached to this Specification and is incorporated herein by reference. Provide valves in accordance with Valve Schedule.
- B. For valves that are not referenced in Valve Schedule, provide the valve type and size called for on the Drawings.

3.2 PREPARATION

A. Cleaning:

1. Clean all mating faces of valve (threads, flange faces, etc.) prior to assembly.

2. Remove all debris from valve body prior to assembly.
 3. Take extra care to clean mating faces of existing pipe and fittings which may have corrosion, dirt, debris and mineral build-up which should be removed for a proper fit.
- B. Apply joint compound, lubricant, etc. as recommended by valve manufacturer for proper installation prior to installation.
- C. Install valves in accordance with the following schedule and as noted on the Drawings:

3.3 INSTALLATION

- A. Install valves per manufacturer's recommendations.
- B. Install valves so handles operate from fully open to fully closed without encountering obstructions.
- C. Install valves in location and orientation for easy access for routine operation and maintenance. Access should be such that an operator can operate the valve by reaching a handle, chain, etc. at a height between 2'-6" and 5'-0" above adjacent work surface (for buried valves, this is accomplished with a t-handle wrench and the operating nut being within 12" of finished grade).
- D. Install plug valves with the seat side as indicated on the drawings. If manufacturer's recommendations differ from indicated seat direction on the drawings, or if no seat side is indicated, install plug valves with seat side as recommended by the manufacturer after obtaining approval from the ENGINEER.

3.4 TESTS AND INSPECTION

- A. Valve may be either tested while testing pipelines, or as a separate step.
- B. Test that valves open and close smoothly under operating pressure conditions. Test that two-way valves open and close smoothly under operating pressure conditions from both directions.
- C. Inspect air release and vacuum valves as pipe is being filled to verify venting and seating is fully functional.
- D. Count and record number of turns to open and close valve; account for any discrepancies with manufacturer's data.
- E. Set, verify, and record set pressures for all relief and regulating valves.
- F. Automatic valves to be tested in conjunction with control system testing. Set all opening and closing speeds, limit switches, as required or recommended by the ENGINEER.

3.5 SUPPLEMENTS

- A. The following supplements are attached to this Specification section and incorporated herein by reference:
1. 15200 VS – Valve Schedule

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SECTION 15200 VS

VALVE SCHEDULE

1.1 DESCRIPTION

- A. General:
 - 1. This schedule is provided for the convenience of the CONTRACTOR. Some valves may be shown on the drawings, but not listed here.
 - 2. Valve specifications are given in Section 15200, Valves and Operators.
- B. Valve Tag Number:
 - 1. Tag numbers are as noted in the Drawings.
- C. Valve Type:
 - 1. Valve types are as described in 15200, Valves and Operators
- D. Valve Ends:
 - 1. FLG – Flanged
 - 2. GRV – Grooved End
 - 3. LUG - Lugged
 - 4. MJ – Mechanical Joint
 - a. Where the surrounding piping system is installed with restrained joints, MJ valves shall be installed using RMJ (restrained mechanical joint) glands per 15120, Piping Specialties.
 - 5. SLV – Solvent Welded Socket
 - 6. SLD – Soldered Socket
 - 7. THR – Threaded
 - 8. W – Wafer
- E. Installation Codes
 - 1. Ex – Exposed
 - 2. Un – Underground
- F. Valve Actuators, as described in 15200, Valves and Operators
 - 1. HW – Handwheel
 - 2. L – Lever
 - 3. N – 2” Nut
 - 4. T – T Handle Key
 - 5. N/A – Not Applicable

1.2 VALVE SCHEDULE

VALVE TAG NUMBER	VALVE TYPE	ENDS	DIAMETER	INSTALLATION	ACTUATOR
GENERAL/YARD PIPING					
WD00_VALV_54001	GAV-10	MJ	6"	Un	N
BOOSTER PUMP STATION					
General Piping					
WD24_VALV_54001	BFV-10	FLG	30"	Ex	HW
WD24_VALV_54002	CARV-02	THD	2"	Ex	N/A
WD24_VALV_54003	BFV-10	FLG	16"	Ex	HW
WD24_VALV_54004	ALT-01	FLG	16"	Ex	N
WD24_VALV_54005	BFV-10	FLG	16"	Ex	HW
WD24_VALV_54006	BFP-01	THD	2"	Ex	N
Pump No. 1					
WD24_VALV_54101	BFV-10	FLG	24"	Ex	N
WD24_VALV_54102	AVV-01	THD	1"	Ex	N/A
WD24_VALV_54103	AVV-02	FLG	4"	Ex	N/A
WD24_VALV_54104	CKV-10	FLG	16"	Ex	N/A
WD24_VALV_54105	BFV-10	FLG	16"	Ex	HW
Pump No. 2					
WD24_VALV_54201	BFV-10	FLG	24"	Ex	N
WD24_VALV_54202	AVV-01	THD	1"	Ex	N/A
WD24_VALV_54203	AVV-02	FLG	4"	Ex	N/A
WD24_VALV_54204	CKV-10	FLG	16"	Ex	N/A
WD24_VALV_54205	BFV-10	FLG	16"	Ex	HW
Pump No. 3					
WD24_VALV_54301	BFV-10	FLG	24"	Ex	N
WD24_VALV_54302	AVV-01	THD	1"	Ex	N/A
WD24_VALV_54303	AVV-02	FLG	4"	Ex	N/A
WD24_VALV_54304	CKV-10	FLG	16"	Ex	N/A
WD24_VALV_54305	BFV-10	FLG	16"	Ex	HW
Pump No. 4					
WD24_VALV_54401	BFV-10	FLG	24"	Ex	N
WD24_VALV_54402	AVV-01	THD	1"	Ex	N/A
WD24_VALV_54403	AVV-02	FLG	4"	Ex	N/A
WD24_VALV_54404	CKV-10	FLG	16"	Ex	N/A
WD24_VALV_54405	BFV-10	FLG	16"	Ex	HW
Future Pump No. 5					
WD24_VALV_54501	BFV-10	FLG	24"	Ex	N
HYDROPNEUMATIC TANK					
WD25_VALV_54001	BFV-10	FLG	12"	Ex	HW
WD25_VALV_54002	BAV-01	THD	2"	Ex	L
WD25_VALV_54003	HSV-03	THD	1 ½"	Ex	T

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VALVE TAG NUMBER	VALVE TYPE	ENDS	DIAMETER	INSTALLATION	ACTUATOR
TANK VALVE VAULT					
WD44_VALV_54001	HSV-03	THD	1 ½"	Ex	T
WD44_VALV_54101	BFV-10	FLG	24"	Ex	N
WD44_VALV_54102	CKV-30	FLG	24"	Ex	N/A
WD44_VALV_54103	BFV-10	FLG	24"	Ex	N
WD44_VALV_54104	BFV-10	FLG	30"	Ex	N
WD44_VALV_54201	BFV-10	FLG	24"	Ex	N
WD44_VALV_54202	CKV-30	FLG	24"	Ex	N/A
WD44_VALV_54203	BFV-10	FLG	24"	Ex	N
WD44_VALV_54204	BFV-10	FLG	30"	Ex	N
WD44_VALV_54205	BFV-10	FLG	24"	Ex	N
WD44_VALV_54206	BFV-10	FLG	30"	Ex	N
WATER STORAGE TANKS					
WD45_VALV_54101	GAV-10	FLG	8"	Un	N
WD45_VALV_54102	PLV-10	FLG	6"	Ex	HW
WD45_VALV_54201	GAV-10	FLG	8"	Un	N
WD45_VALV_54202	PLV-10	FLG	6"	Ex	HW

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SECTION 15400
PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Shop Drawings:
1. Catalog information and rough-in dimensions for plumbing fixtures, products, and specialties.

PART 2 - PRODUCTS

2.1 PLUMBING FIXTURES

- A. Tankless Water Heater (**IWH-02**)
1. Type: Instant water heater designed specifically to provide tepid water to emergency shower and eyewash systems.
 2. Construction:
 - a. Enclosed in powder-coated, cold rolled steel NEMA 4 rated cabinet.
 - b. Manufactured from NSF-61 listed materials.
 - c. Parabolic heat design tankless water heater.
 3. Electrical Requirements:
 - a. 480 volt, 3 phase, 60 hz
 - b. 126 kW
 4. 1 1/4" inlet and outlet connections.
 5. Rated to 150 psi.
 6. ANSI/UL 499 listed.
 7. Standard temperature setting: 90-degrees Fahrenheit
 8. Maximum Flow Rate: 40 gpm.
 9. Manufacturer and Product:
 - a. Haws Model 9326
 - b. Or Equal
 - c.
- B. Emergency Eyewash and Shower (**EWSS**)
1. Deluge Shower:
 - a. ABS plastic shower head.
 - b. Instant action, stay open, self-draining ball valve.
 - c. Pull-rod.
 - d. Steel stanchion.
 - e. Floor flange.
 - f. Interconnecting piping.
 2. Eyewash:
 - a. Aerated eye wash with stainless steel receptor.
 - b. Stay open, self-draining ball valve.
 - c. Push handle control.
 - d. Foot treadle control if available.
 - e. Plastic anti-surge eyewash heads.
 - f. Supply line strainer.

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3. Accessories:
 - a. Scald Protection Bleed Valve: Set to open when internal water temperature rises above 95 degrees F and close when internal temperature drops below 87 degrees F.
 - b. Freeze Protection Bleed Valve: Set to open when the internal water temperature drops below 35 degrees F and close when the internal water temperature rises above 42 degrees F.
 - c. Corrosion-resistant coating.
4. Manufacturers and Products:
 - a. Haws; Model 8300 with SP157B and SP158B
 - b. Speakman
 - c. Or Equal.

2.2 DRAINAGE PRODUCTS

A. Floor Drain with Funnel (**FD-02**)

1. Features:
 - a. Cast Iron body and grate
 - b. Funnel top, 4 inch diameter and 4-1/4 inch tall, attached to grate with concealed screws
 - c. Trap primer connection
 - d. Threaded outlet designed for use with PVC drain waste and vent pipe
2. Manufacturers:
 - a. Jay R. Smith Manufacturing Co.; Model 3510T
 - b. Or equal.

B. Trench Drain (**TD-01**)

1. Design Load Class C, Heavy Duty.
2. Width and length as shown on the Drawings.
3. Features:
 - a. Drain channel shall be constructed of high-density polyethylene composite, polyvinyl chloride, precast polymer concrete, fiberglass reinforced plastic, or equal material.
 - b. Pre-sloped: 0.6% minimum.
 - c. Bottom outlet, designed for use with PVC drain waste and vent pipe.
 - d. Flat grated trench cover.
 - 1) Material shall be cast or ductile iron, galvanized steel, stainless steel, resin composite, pultruded fiberglass, or other suitable material.
 - 2) Ferrous metals shall have corrosion resistant coating.
 - e. Closed-end construction
 - f. Lap joints to connect the sectional units
4. Manufacturer and Product:
 - a. Jay R. Smith Manufacturing Co.
 - b. Or Equal

PART 3 - EXECUTION

3.1 DETAILING

- A. Contract Drawings and specifications do not detail all requirements for installation of plumbing fixtures. CONTRACTOR shall provide all required materials to provide a

complete installation of all plumbing fixtures which is fully functional and compliant with all applicable codes and regulations.

3.2 PLUMBING FIXTURE INSTALLATION

- A. General:
 - 1. Install all plumbing fixtures plumb, level and per the manufacturer's instructions.
- B. Plumbing Fixtures, Mounting Heights:
 - 1. Standard rough-in catalogued heights, unless shown otherwise on Drawings.
 - 2. Caulk fixtures in contact with finished walls with waterproof, white, non-hardening sealant which will not crack, shrink, or change color with age.
- C. Fixture Trim: Install fixture trim where applicable on fixtures.
- D. Water Heater:
 - 1. Install water heater and all appurtenances in accordance with the local plumbing code.
 - 2. Route the drains from the relief valve, drip pan, and hot water tank drain to the nearest floor drain. Provide an air gap.
- E. Drains and Cleanouts:
 - 1. Install top flush with finished floor elevation.
 - 2. Install PVC p-traps at each floor drain.
 - 3. Provide cleanouts where shown and where required by code.

+ + END OF SECTION + +

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SECTION 15500

HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Complete specifications, descriptive drawings, catalog cuts, and descriptive literature that include make, model, dimensions, weight of equipment, horsepower, and electrical schematics for products and control system components specified.
- B. Complete performance data that indicates full compliance with the Specifications.
- C. Recommended procedures for protection and handling of equipment and materials prior to installation.
- D. Manufacturer's standard finish color selection for cabinet finishes.
- E. Operation and maintenance manuals.
 - 1. List of recommended spare parts for equipment and materials specified.
 - 2. Manufacturer's Certificate of Conformance for the heat pumps.

1.2 QUALITY CONTROL

- A. Furnish 2-year warranty for all equipment.
- B. Furnish special warranty of 5 years for refrigeration section compressor(s).

PART 2 - PRODUCTS

2.1 HVAC EQUIPMENT

- A. See equipment schedule shown on the Drawings for evaporative cooler, air conditioning system, and exhaust fan.

2.2 FIXED LOUVERS

- A. The following described fixed louvers. Owner may prefer louvers with gravity or automatic dampers to close when not in use to minimize dust intrusion when HVAC systems not in use. Coordinate final louver design with Design-Assist Team.
- B. Furnish storm class fixed blade louvers where shown and with the dimensions and shapes shown on Drawings. Louvers shall be designed for intake and exhaust while providing maximum resistance to water penetration due to wind-driven rain.
- C. Fixed Louver Construction:
 - 1. Louver shall be constructed from extruded aluminum, alloy 6063-T5.
 - 2. Louver shall be 7 inches thick.
 - 3. Frame and blades shall be 0.081" thick.
 - 4. Louver shall be shaped and dimensioned as shown on the Drawings.

5. Install aluminum louver screen on interior side of the louver.
 6. Finish: Kynar 500 fluorocarbon coating, dark brown color, or equal.
- D. Fixed Louver Design:
1. Free Area: Minimum 45% net free area. Provide AMCA test data to show a 4'x 4' unit with a minimum of 7.3-square feet free area.
 2. Pressure Loss: AMCA certified rating of no greater than 0.30-inch WC at 750 fpm.
 3. Provide louver supports designed to carry 30 psf wind load.
 4. Louvers to be designed for air flow in either direction.
 5. Louvers to provide protection from water penetration due to wind-driven rain. Provide test results, per AMCA standard 500L, which show that the louver being provided has the following performance characteristics:
 - a. 99% effectiveness at preventing water penetration of 3 inches per hour of wind driven rain at a wind speed of 29.1 miles per hour directed to the face of the louver
- E. Manufacturers and Products:
1. Construction Specialties; Model RS-7315.
 2. Airolite; Model SCH7.
 3. Or equal.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install equipment and systems in accordance with manufacturers' instructions.
- B. Evaporative Coolers:
1. Pipe drain pan connection as recommended by manufacturer.
 2. Locate units to provide access spaces required for filter changing; motor, drive, and bearing servicing; and fan shaft removal.
 3. Lubricate nonsealed bearings prior to startup.
 4. Seismic Restraints:
 - a. Use lateral and vertical motion limiters described in the latest edition of SMACNA "Guidelines For Seismic Restraints of Mechanical Systems."
 - b. Restraint Snubbers: Rubber-faced, securely anchored to the structure, and installed with sufficient clearance so that unit isolators are not restricted for proper free isolation, but do limit movement in all directions.
 - c. Restrain as described in the latest edition of ASHRAE "HVAC Applications," chapter on Seismic Restrain Design.

+ + END OF SECTION + +

SECTION 15501

DUCTWORK AND ACCESSORIES

PART 1 - GENERAL

1.1 SERVICE CONDITIONS

- A. All ductwork shall be aluminum.

1.2 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Engage a single firm, with undivided responsibility for performance and other requirements and components of the ductwork.
2. Engage a firm which can show successful experience in the fabrication and erection of ductwork systems of scope and type similar to the required Work.

B. Installer Qualifications:

1. Engage a single installer regularly engaged in ductwork installation and with experience in the installation of the types of materials required; and who agrees to employ only tradesmen with specific skill and experience in this type of Work. Submit name and qualifications to ENGINEER
2. Engage a single installer for the entire ductwork system with undivided responsibility for performance and other requirements.

C. Requirements of Regulatory Agencies:

1. Building Codes: Comply with the:
 - a. Uniform Building Code, as supplemented by the authorities having jurisdiction.
 - b. Uniform Mechanical Code, as supplemented by the authorities having jurisdiction.
2. Permits: CONTRACTOR shall obtain and pay for all required permits, fees and inspections by authorities having jurisdiction.

D. Reference Standards: Comply with applicable provisions and recommendations of the latest editions of the following, except as otherwise shown or specified. Specific provisions of this Contract shall supersede the Standards in case of conflict:

1. American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE).
2. Sheet Metal and Air Conditioning Contractors National Association (SMACNA).
 - a. HVAC Duct Construction Standards.
 - b. Round Industrial Duct Construction Standards.
 - c. Rectangular Industrial Duct Construction Standards.
 - d. Fire Damper Guide for Air Handling Systems.
3. American Conference of Governmental Industrial Hygienists
4. ASTM A 774, As-Welded Wrought Austenitic Stainless-Steel Fittings for General Corrosive Service at Low and Moderate Temperatures.
5. ASTM A 778, Welded, Unannealed Austenitic Stainless-Steel Tubular Products.
6. NFPA 91, Blowers and Exhaust Systems for Dust, Stock and Vapor Removal or Conveying.

1.3 SHOP DRAWINGS

- A. Shop Drawings: Submit for approval the following:

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1. 1/4-inch scale duct layouts.
 2. Dimensions.
 3. Details of construction.
 4. Details of installation.
 5. Manufacturer's literature, illustrations, specifications and engineering data.
 6. Ceiling diffusers and registers. Provide schedule of air outlets indicating location and quantity.
 7. Fire Dampers:
 - a. Closing mechanisms.
 - b. Fusible link operating temperature.
 - c. Installation details.
 - d. Access Doors (UL Listed).
 8. Access doors.
 9. Flexible connections.
 10. Duct sealants.
 11. Deviations from Contract Documents.
- B. Test Reports: Submit the following test reports for approval.
1. UL Label, Fire Dampers.
 2. Damper leakage tests from an AMCA approved testing laboratory.

1.4 OPERATION AND MAINTENANCE MANUALS:

- A. Submit complete manuals including copies of all approved Shop Drawings, test reports, maintenance data and schedules, description of operation and spare parts information.

1.5 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Store equipment and materials so as to keep free from moisture, damage, and deterioration.
- B. Manufacturer shall protect all flange faces and the more fragile appurtenances of the sub-assemblies, with padding between pieces in order to prevent one piece from impacting with another, and by crating or other means for shipment.
- C. Duct sub-assemblies shall be unloaded with care and stored in a location where they will be free from damage. Impact of a tool or other heavy object may result in a fracture of the inner lining and affect the service life of the duct or equipment.
- D. Large sub-assemblies shall be supported during unloading to prevent excessive deflection and overstressing.
- E. Ductwork shall be protected, by padding or bracing, from banding or ropes used in shipment. No chains are to be used to secure any ductwork during transportation.

1.6 GENERAL REQUIREMENTS

- A. The Drawings show general arrangement and extent of Work to be done, but the exact location and arrangement of all parts shall be determined as the Work progresses, to conform in the best possible manner with its surroundings. The exact location of all parts of the Work must be governed by the general building plans and the actual building conditions. Piping, equipment, ducts, etc. found to interfere with the construction of the building, plumbing apparatus and piping, electrical wiring or other obstructions, etc. shall

be located to clear such obstructions. Connections shown to the various units are intended as an indication only. The actual connections shall be made and to best suit each particular case, provide for expansion, circulation and minimize the amount of space required.

- B. Drawings do not show all offsets, fittings, accessories and details which may be required. CONTRACTOR shall field survey all conditions which may affect the installation of the Work, and shall arrange the Work accordingly. Provide all required items to complete the systems to the extent required by the Contract Documents.
- C. If ductwork can be run to better advantage, CONTRACTOR, before proceeding with the Work, shall prepare and submit complete drawings showing all details of the proposed rearrangement for written approval.

PART 2 - PRODUCTS

2.1 METALLIC RECTANGULAR DUCTWORK

- A. Type:
 - 1. Aluminum (Alloy 3003 - H-14).
 - a. All accessories and hardware shall be aluminum, unless otherwise noted.
 - b. All fasteners shall be Type 304L stainless steel, unless otherwise noted.
- B. Construction: Conform to the latest edition of SMACNA (Sheet Metal and Air Conditioning CONTRACTOR's National Association, Inc.) Standards.
 - 1. All sheet metal construction shall conform to a minimum pressure classification of 2-inches of water gauge (positive and negative pressure), unless otherwise shown or specified, and shall be in accordance with the construction details and installation details in the latest edition of the SMACNA HVAC Duct Construction Standards. This standard is hereinafter referred to as HVAC DS.
 - a. All ductwork served by ADM-LEF-1 and ADM-AHU-2 shall conform to a minimum pressure classification of negative and positive 4-inches of water gauge.
 - 2. Duct construction alternatives (duct gage in relation to reinforcement spacing) selected by the CONTRACTOR from HVAC DS tables shall be identified by duct system and shall be submitted in schedule form to the ENGINEER prior to beginning installation of ductwork. CONTRACTOR shall construct ductwork to meet the requirements of the HVAC DS tables in conjunction with the minimum thickness schedule below.
 - 3. Longitudinal seams shall be Pittsburgh type with permanently elasticmatic sealant applied continuously within the seam.
 - 4. Aluminum ductwork minimum thicknesses:

Duct Dimension (maximum side):	Thickness:
Under 12 inches	0.040 in. (No. 18 B&S Gage)
Between 12 and 30	0.050 in. (No. 16 B&S Gage)
Between 31 and 54	0.064 in. (No. 14 B&S Gage)
Between 55 and 84	0.071 in. (No. 13 B&S Gage)
Above 84	0.090 in. (No. 11 B&S Gage)
 - 5. Ductwork shall be connected by a mechanical joining system manufactured by Ductmate Industries, Inc., or equal except where otherwise noted. Manufacturers' installation instructions will be followed, except where otherwise noted.

- a. Rectangular Ductwork: SMACNA T-24 flange type connectors formed from the duct edge will NOT be allowed. All connectors shall meet or exceed the functional criteria outlined in SMACNA.
 - 1) Aluminum Ductwork Connectors:
 - a) Angle: .04-inch thick Type 3003H14 aluminum.
 - b) Corner: .10-inch thick Type 5052H34 aluminum.
 - c) Cleat: .07-inch thick PVC.
 - d) Gasket: Butyl.
 - 6. Stiffener angles shall be constructed of the same material as the duct or transverse connector.
 - 7. Turning Vanes, Splitter Dampers, Transitions, Offsets, Branch Take-offs and Elbows::
 - a. Reference: SMACNA.
 - b. Construction: Same material as ductwork.
 - c. Vanes: Double thickness.
 - d. Branch Take-offs: 45 degrees, NO straight taps unless specifically shown.
 - e. Elbows shall be the radius type with R'1.5, unless specifically shown otherwise.
 - f. Where space limitations prevent the use of a radius elbow provide a square throat elbow with turning vanes.
- C. Seal Class B.
- D. Leakage:
- 1. Not to exceed 5 percent.
- E. Flexible duct or duct constructed of fiberglass duct board shall not be permitted on the job, except where specifically shown on the Drawings.

2.2 METALLIC ROUND DUCTWORK

- A. Type:
 - 1. Aluminum (Alloy 3003 - H-14).
 - a. All accessories and hardware shall be aluminum, unless otherwise noted.
 - b. All fasteners shall be Type 304L stainless steel, unless otherwise noted.
- B. General: Conform to the latest edition of SMACNA (Sheet Metal and Air Conditioning Contractor's National Association, Inc.) Standards.
 - 1. All sheet metal construction shall conform to a minimum pressure classification of 2-inches of water gauge (positive and negative pressure), unless otherwise shown or specified, and shall be in accordance with the construction details and installation details in the latest edition of the SMACNA HVAC Duct Construction Standards. This standard is hereinafter referred to as HVAC DS.
 - a. All ductwork served by ADM-LEF-1 and ADM-AHU-2 shall conform to a minimum pressure classification of positive and negative 4-inches of water gauge.
 - 2. Duct construction alternatives (duct gage in relation to reinforcement spacing) selected by CONTRACTOR from HVAC DS tables shall be identified by duct system and shall be submitted in schedule form to the ENGINEER prior to beginning installation of ductwork. CONTRACTOR shall construct ductwork to meet the requirements of the HVAC DS tables in conjunction with the mini-mum thickness schedule below.
 - 3. Ductwork shall be manufactured by United McGill Corporation series UNI-SEAL or equal.
 - 4. Ductwork fittings shall be manufactured by United McGill Corporation series LOLOSS or equal.

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5. Round, single wall, spiral lock seam ductwork.
6. Aluminum Ductwork Minimum Thicknesses:

<u>Duct Diameter:</u>	<u>Minimum Thickness:</u>
Under 26 inches:	0.040 inches
27 thru 36 inches:	0.050 inches
37 thru 50 inches:	0.063 inches
7. Ductwork shall be provided in continuous unjoined lengths where ever possible, except when interrupted by fittings and dampers.
8. Fittings: Elbows shall be die-stamped with a bend radius of 1.5 times the elbow diameter. Converging flow fittings shall be constructed with a radiused entrance to all branch taps and with no excess material projecting from the body into the branch tap entrance. Conform to the following requirements:
 - a. All branch entrances shall be by means of factory fabricated fittings or factory fabricated duct tap assemblies.
9. Connections: Ductwork and fittings shall be connected using flanged joints in accordance with the manufacturers installation procedures and duct sealant recommendations.

C. Seal Class: B

D. Leakage: Not to exceed 5 percent.

2.3 METALLIC DUCT ACCESSORIES

A. Hangers:

1. All ductwork shall be supported from trapeze type hangers. Hanger rods shall be minimum 3/8-inch for all ducts with half perimeter up to 72-inches, and 1/2- inch diameter for all ducts with half perimeter larger than 72-inches. A pair of rods shall be provided at each duct support point. Maximum hanger spacing shall be 8 feet for ducts with half perimeter up to 72-inches and 6 feet for ducts with half perimeter larger than 72-inches.
2. Provide structural steel supports as required to mount hangers from building.
3. All hangers, rods, supports, bolts, nuts, washers, inserts, supports, and appurtenances located in corrosive areas shall be Type 316 stainless steel and those located in non-corrosive areas shall be galvanized steel.
4. Hanger Construction and installation shall conform to SMACNA Standards, except as specified. No sheet metal duct hangers or straps will be allowed.

B. Duct Liner:

1. 2-inch thick, 3-pound density. Minimum .70 NRC, minimum 0.24K at mean temperature of 75 degrees F. NFPA-90A approved black coating on one side.
2. U. L. Ratings:
 - a. Flame Spread Max: 25.
 - b. Fuel Contribution: 50.
 - c. Smoke Developed: 50.
3. Product and Manufacturer: Provide one of the following:
 - a. Mansville Microlite.
 - b. PPG Textrafine.
 - c. Or equal.

C. Supply Registers:

1. Rectangular aluminum construction.
2. Individually adjustable horizontal face and vertical rear louver fins.

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3. Gang-operated opposed-blade horizontal volume control damper.
4. Continuous sponge rubber gasket at face flange.
5. 1-inch flat aluminum frame.
6. Prime coat finish.
7. Manufacturers and Products:
 - a. Krueger; Model 5880H-OBD.
 - b. Carnes; Type RNDAAH.
 - c. Or equal.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. All ductwork shall conform accurately to the dimensions shown, the ducts shall be straight and smooth inside with joints neatly finished. Ductwork shall be installed so as to preclude the possibility of vibration under all operating conditions.
- B. Tape and seal all joints in accordance with SMACNA Standards.
- C. Fire/Smoke dampers shall be provided and installed where indicated on the Drawings and where required by U.L. and authorities having jurisdiction and shall be approved by local building codes and in accordance with the requirements of the NFPA.
- D. Install all ductwork and accessories to provide a system free from buckling, warping, breathing or vibration.
- E. All ducts at expansion joints and flexible connections shall be suitably supported at each end within 12-inches of joint.
- F. Coordinate all air outlets for compatibility with ceiling system.
- G. Install ductliner in roof mounted supply, return and outside air ductwork stick clip duct liner to inside walls of ductwork.

3.2 ADJUSTMENT

- A. Set volume control devices for approximate positions in preparation for final testing and balancing.
- B. Start fan system and check for excessive leaks and vibration and correct.

3.3 CLEANING

- A. Remove all loose materials and obstructions from interior of ducts.
- B. Remove debris and waste materials resulting from installation.

+ + END OF SECTION + +

SECTION 15600

TESTING, ADJUSTING AND BALANCING OF HVAC SYSTEMS

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

1. Provide all labor, materials, equipment and incidentals as shown on the Drawings, specified and required to perform the testing, adjusting and balancing of HVAC systems.

1.2 QUALITY ASSURANCE

A. Balancer's Qualifications:

1. Submit biographical data on employee proposed to directly supervise the testing, adjusting and balancing Work.
2. Submit proof of certification by NEBB (National Environmental Balancing Bureau), AABC (Associated Air Balance Council), or SMACNA (Sheet Metal and Air Conditioning Contractors' National Association), proof of registration in the State of Arizona and a record of at least five years experience in the testing and balancing contracting industry, engaged in heating, ventilating and air conditioning (HVAC) Work.

1.3 SUBMITTALS

A. Data Forms:

1. Submit data forms on each item of testing equipment required. Include name of device, manufacturer's name, model number, latest date of calibration, and correction factors.
2. All field data pertaining to each item of equipment being tested must be tabulated and submitted on the standard forms of NEBB, AABC, or SMACNA.
3. Testing agency shall sign and date each form in the space provided and proof of certification shall accompany the final report.

B. Report Forms:

1. Submit example copies of report forms for ENGINEER'S approval.
2. Forms shall be 8-1/2 by 11-inch paper for loose-leaf binding, with blanks for listing of the required test ratings and for certification of report.
3. Reports shall be on the organizations approved forms imprinted with the company's name.
4. Certified report outlining procedure used to balance the system and the types of measuring devices used.

C. Test results shall be submitted on approved forms in a typed format.

D. Submit certified copies of required test reports to the ENGINEER for approval.

1.4 JOB CONDITIONS

- A. Heating, ventilating and air conditioning equipment shall be completely installed and in continuous operation as required to accomplish the testing, adjusting and balancing Work specified.
- B. Testing, adjusting and balancing shall be performed when outside conditions approximate design conditions indicated for heating and cooling functions.

1.5 OPERATING INSTRUCTIONS

- A. Reports shall be certified by CONTRACTOR verifying that the methods used and the results achieved are as specified.

1.6 CORRECTIVE ADJUSTMENTS

- A. Should corrective measures caused by faulty installation require retesting, adjusting and balancing, such Work shall be performed by CONTRACTOR, at no additional cost to the OWNER.
- B. Inspections:
 - 1. Fan Belt Deflection: No less than 1/4-inch or more than a 1/2-inch.
 - 2. Finned Coils: Fins shall be combed out with a fin comb for appropriate fin spacing. Helical fins shall be straightened with blunt bladed instrument.

PART 2 - PRODUCTS

2.1 BALANCING INSTRUMENTATION

- A. Provide all necessary instrumentation, tools, ladders, etc. to complete all air balancing, tests and adjustments.
- B. Instrumentation shall be in accordance with NEBB, AABC, or SMACNA requirements and shall be calibrated to the accuracy standards stipulated by these organizations.
- C. Flow-measuring hoods (manufactured, not fabricated) shall be acceptable for measurement of ceiling diffuser performance only.
- D. Assume full responsibility for safe keeping of all instrumentation during the course of the Work.

PART 3 - EXECUTION

3.1 GENERAL

- A. Testing, adjusting, and balancing of air systems shall be performed in compliance with the standard procedure manual published by the testing, adjusting, and balancing organization affiliated with CONTRACTOR. Submit one copy of the standard procedure manual to the ENGINEER for record purposes only.

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- B. Sole responsibility for the protection and safeguarding of the Work and providing every protection against accidents, injury, and damage to persons and property belongs to CONTRACTOR.
- C. Keep dust, dirt, and debris to an absolute minimum and reinstall all removed ceiling components to their original positions at the end of each day.
- D. Full responsibility for removal and reinstallation of ceiling system and replacement of any component damaged belongs to CONTRACTOR.
- E. Install additional access panels, at no additional cost to the OWNER, as required to gain access to equipment concealed above ceilings, behind walls, or any other concealed space.
- F. Air systems shall be tested, adjusted, and balanced with clean filters.
- G. Provide final air balancing report to Maricopa Building Official prior to notifying Maricopa County for final inspection of mechanical work. (IMC, Section 107)

3.2 INSPECTION

- A. Pre-Startup Inspection:
 - 1. Verify proper equipment mounting and setting.
 - 2. Verify that control, interlock and power wiring is complete.
 - 3. Verify alignment of motors and drives.
 - 4. Verify proper piping connections and accessories.
 - 5. Verify that lubrication is completed.
- B. First Run Observations:
 - 1. Verify direction of rotation.
 - 2. Verify setting of safety controls.
 - 3. Monitor heat build up in bearings.
 - 4. Check motor loads against manufacturer's nameplate data.
- C. Equipment Check:
 - 1. Verify proper overload heater sizes.
 - 2. Verify function of safety and operating controls.
 - 3. Verify proper operation of equipment.
 - 4. Report on inspection, observation and checking procedures.

3.3 AIR SYSTEMS

- A. Preliminary:
 - 1. Identify and list size, type and manufacturer of all equipment to be tested, including air terminals.
- B. Central Systems:
 - 1. Test rpm for all equipment, including adjustment to each fan and air handling unit, and air conditioning unit to design requirements within the limits of mechanical equipment provided.
 - 2. Adjust or change drive sheaves as required to adjust actual cfm to scheduled cfm.

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3. Test and record motor voltages and running amperes, including motor manufacturer's nameplate data, and starter heater ratings for each unit as listed above.
 4. Make Pitot tube traverse of main supply, exhaust and return ducts, determine cfm at all fans and units and adjust fans and units to within five percent of design requirements.
 5. Test and record system suction and discharge static pressure.
 6. Test and adjust system for design outside air, cfm.
 7. Test and adjust system for design recirculated air, cfm.
 8. Test and record heating apparatus outdoor entering air temperatures, dry bulb.
 9. Test and record heating apparatus return air temperatures, dry bulb.
 10. Test and record heating apparatus mixed air temperatures, dry bulb.
 11. Test and record heating apparatus leaving air temperatures, dry bulb.
 12. Test and record cooling apparatus outdoor entering air temperatures, dry bulb and wet bulb.
 13. Test and record cooling apparatus return air temperatures, dry bulb and wet bulb.
 14. Test and record cooling apparatus mixed air temperatures, dry bulb and wet bulb.
 15. Test and record cooling apparatus leaving air temperatures, dry bulb and wet bulb.
 16. Record all fan and air handling unit speeds.
 17. Record air quantity delivered by each fan and air handling unit.
- C. Distribution:
1. Adjust volume dampers, control dampers, splitter dampers, air extractors, etc. to proper design cfm in main ducts, branch ducts, and zones.
- D. Air Terminals:
1. Identify each air terminal as to location and determine required flow reading.
 2. Test and adjust each air terminal to within tolerance of design requirements as listed below:
 - a. Diffusers and Supply Registers: 0 percent to +10 percent.
 - b. Return Registers: 0 percent to -10 percent.
 - c. Exhaust Registers: 0 percent to -10 percent.
 3. Test procedure on air terminals shall include recording comparison of required cfm and observed cfm, adjustment of terminal, and recording of final cfm.
 4. Adjust flow patterns from air terminal units to minimize drafts to extent design and equipment permits.
- E. Verification:
1. Prepare summation of readings of observed cfm for each system, compared with required cfm, and verify that duct losses are within specified allowable range.
 2. Verify design cfm at fans as described above.
 3. If the air systems are not properly balanced, rebalance and recheck all data in the presence of ENGINEER and as approved by the ENGINEER.

3.4 AUTOMATIC CONTROL SYSTEM

- A. In cooperation with the control manufacturer's representative, set and adjust automatically operated devices to achieve required sequence of operations.
- B. Verify all controls for proper calibration and operation and list those controls requiring adjustment by control system installer.

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3.5 MANUFACTURER'S SERVICES

- A. A factory trained representative shall be provided for installation supervision, start-up and test services and operation and maintenance personnel training services. The representative shall make a minimum of 2 visits, minimum 4 hours on-site for each visit, to the site. The first visit shall be for assistance in the installation of equipment. The second visit shall be for checking the completed installation and start-up of the system and instruction of Operations and Maintenance Personnel. Manufacturer's representative shall test operate the system in the presence of the ENGINEER and verify that the equipment and controls conform to requirements. Representative shall revisit the job site as often as necessary until all trouble is corrected and the installation is entirely satisfactory.
- B. All costs, including travel, lodging, meals and incidentals, shall be considered as included in CONTRACTOR'S bid price.

+ + END OF SECTION + +

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SECTION 15990

TESTING OF PRESSURE PIPING SYSTEMS

PART 1 - SUBMITTALS

1.1 TESTING PLAN

- A. Testing Plan: Submit prior to testing and include at least the information that follows.
 - a. Testing dates.
 - b. Piping systems and section(s) to be tested.
 - c. Test type.
 - d. Method of isolation.
 - e. Calculation of maximum allowable leakage for piping section(s) to be tested.
2. Certifications of Calibration: Testing equipment.
3. Certified Test Report.

1.2 REFERENCE

- A. Reference Section 15100 PS for test pressure.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 NOTIFICATION

- A. Notify ENGINEER in writing 5 days in advance of testing. Perform testing in presence of ENGINEER.

3.2 PRESSURE TESTING

- A. General:
 1. Complete installation of piping system, including all thrust restraint, prior to pressure testing.
 - a. If thrust blocking is specified, wait 5 days minimum after concrete thrust blocking is installed to perform pressure tests. If high-early strength cement is used for thrust blocking, wait may be reduced to 2 days.
 2. Prior to test, remove and replace with pipe spools or suitably isolate appurtenant instruments or devices that could be damaged by pressure testing.
 3. New Piping Connected to Existing Piping: Isolate new piping with grooved-end pipe caps, spectacle blinds, blind flanges, or as acceptable to ENGINEER.
 4. Piping to be Pressure Tested and Test Pressure: as indicated on Piping Schedule.
- B. Testing with Water (non-HDPE2 pipe):
 1. Fluid: Clean, potable water.
 2. Pipeline Protection:
 - a. Maximum Filling Velocity: 0.25 foot per second, applied over full area of pipe.
 - b. Vent piping during filling. Open vents at high points of piping system or loosen flanges, using at least four bolts, or use equipment vents to purge air pockets.

3. Exposed Piping:
 - a. Perform testing on insulated piping prior to application of insulation
 - b. Maintain hydrostatic test pressure continuously for 60 minutes, minimum, and for such additional time as necessary to conduct examinations for leakage.
 - c. Examine joints and connections for leakage.
 - 1) Correct visible leakage and retest as specified.
 - 2) Empty pipe of water prior to final cleaning or disinfection.
4. Buried Piping:
 - a. Test after backfilling has been completed.
 - b. Expel air from piping system during filling.
 - c. Apply and maintain specified test pressure with hydraulic force pump. Valve off piping system when test pressure is reached.
 - d. Maintain hydrostatic test pressure continuously for 2 hours minimum, reopening isolation valve only as necessary to restore test pressure.
 - e. Determine actual leakage by measuring quantity of water necessary to maintain specified test pressure for duration of test.
 - f. Maximum Allowable Leakage:

$$L = \frac{SD(P)^{1/2}}{133,200}$$

where:

- L = Allowable leakage, in gallons per hour.
 S = Length of pipe tested, in feet.
 D = Nominal diameter of pipe, in inches.
 P = Test pressure during leakage test, in pounds per square inch.

- g. Correct leakage greater than allowable, and retest as specified.

C. Testing with Water (15100 PSDS HDPE2) per ASTM F2164:

1. Fluid: Clean, potable water.
2. Pipeline Protection:
 - a. Maximum Filling Velocity: 0.25 foot per second, applied over full area of pipe.
 - b. Vent piping during filling. Open vents at high points of piping system or loosen flanges, using at least four bolts, or use equipment vents to purge air pockets.
3. Allow the test section and test liquid to equalize to a common temperature.
4. Pressurizing (initial expansion phase):
 - a. Once test section is completely filled and void of all air pockets, gradually increase pressure in the test section to the specified test pressure.
 - b. Test section shall not exceed 1.5 x design pressure at systems lowest point.
 - c. Should test pressure not be obtainable, examine pipe for leaks, air pockets or other faults prior to continuing test.
 - d. Once test section has achieved stable test pressure, add make-up water as necessary to maintain test pressure for four (4) hours.
5. Test Phase
 - a. Reduce test pressure by 10 psi and monitor pressure for one (1) hour. Do not increase pressure or add make-up water.
 - b. If no visual leakage is observed and pressure during the test phase remains steady (within 5% of the test phase pressure) for the one (1) hour test period, a passing test is achieved.
6. Retesting
 - a. If retesting is necessary, depressurize the test section by releasing test liquid at a controlled rate. Sudden depressurization can cause water hammer.

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- b. Do not attempt to correct faults or make repairs while test section is pressurized.
- c. Allow the test section to relax for a period of eight (8) hours before restarting the pressurization step of testing.

3.3 PIPE PRESSURE TESTING LOG

- A. All pressure tests shall be witnessed by ENGINEER. CONTRACTOR shall keep a pipe pressure testing log to document the pressure testing and ENGINEER's approval of such.
 - 1. Specific details of the contents and format pipe pressure testing log shall be determined by the CONTRACTOR and approved by the ENGINEER.
 - 2. At a minimum, pipe pressure testing log shall record, on a daily basis for any day when pipe pressure testing is performed:
 - a. Test Report Documentation:
 - 1) Test date.
 - 2) Description and identification of piping tested.
 - 3) Test fluid.
 - 4) Test pressure.
 - 5) Remarks, including:
 - a) Leaks (type, location).
 - b) Repair/replacement performed to remedy excessive leakage.
 - 3. Pipe pressure testing log shall be kept on-site. Pipe pressure testing log shall be signed on a daily basis, for any day when pipe pressure testing log work is performed, by the supervisor of the CONTRACTOR's field crew and by the ENGINEER.
 - 4. Any piping system which was pressure tested, but which was not recorded in the pipe pressure testing log shall be re-tested at the ENGINEER's discretion.

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SECTION 15995

DISINFECTION OF POTABLE WATER SYSTEMS

PART 1 - GENERAL

1.1 SUBMITTALS

- A. Informational Submittals:
 - 1. Plan describing and illustrating conformance to appropriate AWWA standards and this Specification.
 - 2. Procedure and plan for cleaning system.
 - 3. Procedures and plans for disinfection and testing.
 - 4. Proposed locations within system where Samples will be taken.
 - 5. Type of disinfecting solution and method of preparation.
 - 6. Certification that employees working with concentrated chlorine solutions or gas have received appropriate safety training.
 - 7. Method of disposal for highly chlorinated disinfecting water.
 - 8. Independent Testing Agency: Certification that testing agency is qualified to perform bacteriological testing in accordance with AWWA standards, agency requirements, and this Specification.
 - 9. Certified Bacteriological Test Results:
 - a. Facility tested is free from coliform bacteria contamination.
 - b. Forward results directly to ENGINEER.

1.2 QUALIFICATIONS

- A. Independent Testing Agency: Certified in the State of California with 10 years' experience in field of water sampling and testing. Agency shall use calibrated testing instruments and equipment, and documented standard procedures for performing specified testing.

PART 2 - PRODUCTS

2.1 WATER FOR DISINFECTION

- A. Clean, uncontaminated, and potable.
- B. CONTRACTOR shall make arrangements for water supply and convey water in disinfected pipelines or containers.

2.2 CONTRACTOR'S EQUIPMENT

- A. Furnish chemicals and equipment, such as pumps and hoses, to accomplish disinfection.
- B. Water used to fill pipeline may be supplied using a temporary connection to existing distribution system. Provide protection against cross-connections as required by AWWA C651.

PART 3 - EXECUTION

3.1 GENERAL

- A. Conform to AWWA C651 for pipes and pipelines, C652 for tanks and reservoirs, C653 for water treatment plants and filters, and C654 for wells, except as modified in these Specifications.
- B. Disinfect the following items installed or modified under this Project, intended to hold, transport, or otherwise contact potable water:
 - 1. Pumps.
 - 2. Tanks.
 - 3. Pipelines: Disinfect new pipelines that connect to existing pipelines up to point of connection.
- C. Disinfect surfaces of materials that will contact finished water, both during and following construction, using one of the methods described in AWWA C652 and C653. Disinfect prior to contact with finished water. Take care to avoid recontamination following disinfection.
- D. Prior to application of disinfectants, clean pump, tank, filters, and pipelines of loose and suspended material.
- E. Allow freshwater and disinfectant solution to flow into pipe or vessel at a measured rate so chlorine-water solution is at specified strength. Do not place concentrated liquid commercial disinfectant in pipeline or other facilities to be disinfected before it is filled with water.

3.2 PIPING

- A. Cleaning:
 - 1. Before disinfecting, clean all foreign matter from pipe in accordance with AWWA C651.
- B. If the continuous feed method or the slug method of disinfection, as described in AWWA C651 are used, flush pipelines with potable water until clear of suspended solids and color. Provide hoses, temporary pipes, ditches, and other conduits as needed to dispose of flushing water without damage to adjacent properties.
- C. Flush service connections and hydrants. Flush distribution lines prior to flushing hydrants and service connections. Operate valves during flushing process at least twice during each flush.
- D. Flush pipe through flushing branches and remove branches after flushing is completed.
- E. Disinfecting Procedure: In accordance with AWWA C651, unless herein modified.

3.3 PUMPS

- A. Disinfecting Solutions: Minimum free chlorine concentration of 100 ppm.
- B. Application:

1. Inject disinfecting solution into pump and associated piping and circulate for a minimum 3-hour period of time. At end of 3-hour period, solution shall have a strength of at least 50 ppm free chlorine.
2. Operate valves and pump appurtenances during disinfection to ensure that disinfecting solution is dispersed into all parts of pump and lines.
3. If disinfecting solution contained in pump has a residual free chlorine concentration less than 50 ppm after the 3-hour retention period, reclean pump, reapply disinfecting solution, and retest until a satisfactory test result is obtained.
4. After chlorination, flush water from pump until water through the unit is chemically and bacteriologically equal to permanent source of supply.

3.4 TANKS

- A. Potable Water Storage Tanks: Disinfection procedures are described in section 03314.
- B. Cleaning:
 1. Clean interior surfaces using water under pressure before sterilizing. Isolate tanks from system to prevent contaminating materials from entering the distribution system. Cleaning shall:
 - a. Remove all deposits of foreign nature.
 - b. Remove all biological growths.
 - c. Clean the slopes, walls, top, and bottom.
 - d. Avoid damage to the structure.
 - e. Avoid pollution or oil deposits by workers and equipment.
 2. Dispose of water used in cleaning in accordance with applicable regulations before adding disinfecting solution to tank.
- C. Disinfecting Procedure: In accordance with AWWA C652, unless herein modified. Parts of structures, such as ceilings or overflows that cannot be immersed, shall be spray or brush disinfected.

3.5 DISPOSAL OF HEAVILY CHLORINATED WATER

- A. Do not allow flow into a waterway without neutralizing disinfectant residual.
- B. See the appendix of AWWA C651, C652, C653, and C654 for acceptable neutralization methods.

+ + END OF SECTION + +

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SECTION 16010
ELECTRICAL GENERAL

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. The following list of components and areas of work is a summary of the work required in the drawings and specifications. The list is not comprehensive of the total work required nor is it in any specific order. It is merely being provided as an aid to the bidder. Work not listed herein, but described in the plans or specifications, is also part of the overall scope of work.
1. Outdoor Utility Metering with Main Disconnect, Generator Breaker, and Transition Sections to accommodate rear entry Automatic Transfer Switch in NEMA 3R weatherwrap.
 2. Indoor Automatic Transfer Switch with Transition Section and Power Distribution Sections. Custom ATS rear entry compartment.
 3. VFD Motor Control Panels.
 4. Soft Starter Motor Control Panels.
 5. Generator with sound attenuating enclosure, load bank and remote fuel tank.
 6. SCADA View Node
 7. Site access control and security
 8. PLC Control panel(s).
 9. PLC and SCADA.
 - a. Configuration and programming of the PLC is by Application Programmer – a person or entity further defined in this section.
 - b. Configuration and programming of the SCADA System is by Owner.
 10. Communications system. Contractor to coordinate, configure, test, and place communications system(s) into operation.
 11. Instrumentation
 - a. Mounting supports or other accessories as detailed and as recommended by the instrument manufacturer for the application.

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- b. Contractor shall calibrate, configure and test all instrumentation and document results.
- 12. Coordination and timely installation of critical path equipment and services such that construction may be facilitated. The Electrical Contractor and System Integrator should not assume that submittals, manufacturing, installation, start-up will be based on their own schedule. The Electrical Contractor and System Integrator scope of work is part of a much larger project and will need to be coordinated. Expect that additional cost in time and labor will be required beyond normal optimistic projections.
- 13. Conduit – support systems, wire, and grounding system, for equipment interconnection, and operation.
- 14. All necessary process piping, shut off, sample and calibration valves, drains, pressure reducers and calibration equipment for connection of instrumentation.
- 15. Trenching, backfilling, compaction and resurfacing for all new underground conduit routes, concrete pads, and pull boxes.
- 16. Coordination and equipment for connection of power utility and telephone services per utility drawings and standards.
- 17. Site electrical devices, lights and receptacles.
- 18. Seismic Anchorage Design Calculations and conforming installation.
- 19. System startup, calibration, testing and documentation.
 - a. The Application Programmer (defined in Electrical Specifications [Electrical General].), Owner and/or Construction Manager will be actively engaged in Operational Testing and Commissioning. These efforts shall be combined efforts of the Application-Programmer/Construction-Manager/Engineer, Contractor and Owner.
 - b. The Contractor shall facilitate test as outlined herein such that hardware, software and application programming are tested completely and all applicable test documentation is completed.
 - c. The Contractor shall assume that a minimum of 80 hours will be required to assist in this task.
 - d. Sufficient time shall be allocated in the construction schedule for troubleshooting, testing, startup, and verification of application programming in front of associated construction milestones. For instance, if a pump station is required to be operational prior to a date certain, then the schedule shall allocate time for these activities. The time necessary depends on the system to be started and shall be coordinated with the Owner Representative or Application Programmer during

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construction scheduling early in the project.

- B. Electro-mechanical equipment to be installed in this project may be specified in other divisions but will interface to equipment provided under Electrical Specifications. Obtain submittals for those devices, review, coordinate and provide all interfacing equipment, software, communications, I/O, and testing to integrate the equipment to the extent possible and as intended.
- C. Install electrical and control portion of electro-mechanical equipment specified in other sections. Reference those specifications, pertinent details, and follow all manufacturer instructions to erect, install and commission equipment. Furnish all electrical equipment, interconnecting wire, and make connections to place equipment in operation.
- D. All electrical equipment and materials, and methods - including installation, calibration, and testing - shall conform to the applicable codes and standards listed in this and other Sections. All electrical materials and work shall conform to published standards of the National Electric Code (NEC) current issue, Institute of Electrical and Electronic Engineers (IEEE), and Underwriters Laboratories Inc (UL).

1.02 RELATED SPECIFICATIONS

- A. The following specification sections are part of the [Electrical Specifications].

Section	Description
16110	Conduit and Boxes
16120	Low Voltage Wire and Data Cable
16210	Engine Generator
16250	Automatic Transfer Switch
16430	Low Voltage Switchboard
16450	Grounding
16470	Panelboard and Power Transformer
16481	Variable Frequency Drive
16482	Solid State Soft Starter
16600	Factory and Field Testing
16905	Control Panels
16910	PLC Hardware
16931	Security System
16932	Access Control System
16933	Video Monitoring System
16940	Instrumentation

- B. Owner, Engineer, Construction Manager, Application Programmer, and City are used within Electrical Specifications and are interchangeable. They are all representatives of the Owner, in this case, the City of Roseville.

1.03 QUALIFICATIONS AND REQUIRED WORK SCOPE

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A. Electrical Contractor

1. Management and installation of the entire electrical and control system) required for this project shall be by an Electrical Contractor meeting qualifications as defined herein.
 - a. Contractor shall be capable of looking at electrical equipment submittals, prior to installation, comparing hookup requirements to the drawings, and noting any deficiencies.
2. Electrical Contractor shall select, furnish, and install all commodity electrical materials (conduit, wire, supports, fittings, ductbanks, etc) that are generally not "custom" or uniquely manufactured for this project. Custom electrical panels, controls, and instrumentation shall be furnished by Systems Integrator.
3. Shall be competent in and familiar with management and subcontracting of specialty electrical and instrumentation supply and engineering work as requires of a Systems Integrator as described herein.
4. Electrical Contractor must be competent in performance, supervision and coordination of work required and performed by equipment suppliers and Systems Integrator (Subcontractors).
5. The Electrical Contractor (EC) shall meet the following minimum qualifications:
 - a. Has a current C10 Electrical Contractor's License issued by the State of California Department of Consumer Affairs.
 - b. EC shall be regularly engaged in similar industrial power and controls electrical contracting for the Water and Wastewater Industry.
 - c. EC shall have successfully performed work of similar or greater complexity (as measured in contract value on industrial power and controls projects) on at least three (3) previous projects.
 - d. EC shall carry all insurances as defined and required by the special provisions and as required by law.
 - e. EC shall be competent in methods and materials execution and selection associated in the type of electrical and instrumentation work specified in this Division.
 - 1) EC shall be familiar with and understand codes and requirements from NFPA70, NFPA110, and all other governing national or local codes as required for work scope as described in the drawings and specifications.
 - 2) EC shall know and understand common terms and abbreviations used in this Industry. Not all terms and abbreviations will be defined in the drawings and specifications.

B. System Integrator

1. Systems Integrator shall be a supplier to the Electrical Contractor and

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must be competent in performance, supervision and coordination of work required in this contract.

2. This includes, but is not limited to, all work necessary to select, furnish, construct, supervise installation, configure, calibrate, test, and place into operation all transmitters, instruments, programmable controllers, control panels, motor controls, alarm equipment, communications, monitoring equipment, and accessories.
3. The System Integrator shall have on staff a Project Engineer with three years prior experience on similar sized projects. This Project Engineer shall coordinate the technical aspects of this project and prepare the submittals and drawings. The Project Engineer shall attend all coordination meetings when specifically requested by the Engineer.
4. The System Integrator (SI) shall meet the following minimum qualifications:
 - a. SI shall be regularly engaged providing electrical and control systems for the Municipal Water and Wastewater Industry.
 - b. SI shall have an Electrical Engineer on staff registered in the State of California as a Professional Engineer.
 - c. SI shall be capable of labeling all electrical panels as manufactured or customized by the System Integrator with appropriate UL label prior to factory testing or shipment to project site.
 - d. SI shall have successfully completed work of similar or greater complexity and on similar facilities on at least ten previous projects under the present company name.
 - e. SI shall be actively engaged in the following disciplines for the last 5 consecutive years.
 - 1) Design and manufacturing of custom Control Panels, Motor Controls Centers, and associated devices and equipment as specified in this division.
 - 2) Programming and commissioning of SCADA, PLC and Operator Interface hardware.
 - 3) Instrumentation - selection, purchase, calibration, start-up and commissioning.
 - 4) Testing, calibration, start-up, and commissioning of control systems as applied to the Water and Wastewater industry.
 - f. SI shall employ personnel on this project who have successfully completed ISA or equal training courses on general purpose instrumentation.
 - g. SI shall have a permanent, fully staffed and equipped service facility within 200 miles of the project site for a minimum of 1 year prior to bid date with personnel and equipment required to maintain, repair and calibrate the instrumentation system.

C. Application Programmer

1. The Applications Programmer will be a part of the construction management team. The Applications Programmer will be a

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subconsultant of the Owner.

2. The Application Programmer work is limited to programming and configuration, and associated startup and testing services of the PLC and SCADA system. All other work is by Contractor.

1.04 CONTRACT DOCUMENTS

- A. The resolution of conflicting information within the contract electrical documents shall put precedence on electrical drawings over that of electrical specifications.
- B. The Drawings and specifications are intended to be descriptive of the type of electrical system to be provided with sufficient detail to construct. Minor omission of detail shall not relieve a qualified contractor from the obligation to provide a complete operational system if it can be determined that the particular detail is usual and customary for similar systems.
- C. The following specifications may incorporate specific equipment or materials that do not have equal equipment listed. These items are standards because of their familiarity, serviceability, and/or spare parts inventory. However, equal alternate equipment or materials (noted in the submittal cover letter) will be considered for use on this project if submitted. The Engineer may reject said equipment for the purpose of adherence to standards.
- D. Contract drawings are diagrammatic and indicate general arrangement of systems and equipment, except when specifically dimensioned or detailed. Exact locations and layouts of electrical products shall be defined during submittal, assembly, or field fit during construction. Field measurements take precedence over dimensioned drawings. Drawing intent is to show initial size, capacity, approximate location, orientation, and general relationship of equipment in area shown but not exact detail or arrangement. The requirements or descriptions in the drawings shall take precedence in the event of conflict.
- E. The Contractor shall examine the architectural, mechanical, structural, and electrical and instrumentation submittals and equipment furnished under other specifications divisions in order to determine conduit routing, stub-up locations, and final terminations for all conduits and cables. Conduits shall be stubbed up as near as possible to equipment electrical terminals. The exact locations and routing of cables and conduits shall be governed by structural conditions, physical interferences, and the physical location of wire terminations on equipment. If the Contractor installs equipment conflicting with the architectural, mechanical, structural, instrumentation or electrical equipment provided under this and other specifications sections, the Contractor shall replace without additional cost.
- F. All equipment shall be installed and located so that it can be readily accessed for operation and maintenance. If accessibility appears to be compromised, the location of equipment or stub ups shall be modified to the extent possible.
- G. Where conduits are shown on the Drawings, or stated to be furnished but not explicitly shown, as part of the scope of work; the Contractor shall provide all

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fittings, boxes, wiring, etc. as required for completion of the raceway system in compliance with the NEC and the applicable specifications in this Section.

- H. No changes from the Drawings or specifications shall be made without written approval of the Engineer. Should there be a need to deviate from the Contract documents, submit written details and reasons for all changes to the Engineer for review.
- I. The Contractor shall maintain a neatly and accurately marked full size set of Contract Drawings recording the as built locations and layout of all electrical and instrumentation equipment, routing of raceways, junction and pull boxes, and other diagram or drawing changes. Drawings shall be kept current weekly, with all "change orders", submittal modifications, and construction changes shown. Drawings shall be subject to the inspection by the Engineer at all times, progress payments or portions thereof may be withheld if drawings are not accurate or current.
- J. When documents are changed, they shall be marked with erasable colored pencils using the following coloring scheme:

Additions - red
Deletions - green
Comments - blue
Dimensions - black
- K. Prior to acceptance of the work, the Contractor shall deliver to the Engineer one set of record full size drawings neatly marked accurately showing the information required above.

1.05 UTILITY COORDINATION AND FEES

- A. All fees and charges of the Power Utility, Roseville Electric Utility, for design and final connection will be paid by others.
- B. Coordinate all work with the Utility for the work shown on Contract Drawings.
 - 1. Unless already completed, apply for electric service within 10 working days from Notice to Proceed.
 - 2. Coordinate and meet with the Utility's Representative at the project site(s) within 30 days after award of contract.
 - 3. Discuss specific installation and comply with Utility requirements. Contact Engineer in the event that Utility requirements far exceed allowances in the plans and specifications. Provide an itemized list of deviations and potential costs or credits.
 - 4. Coordinate and obtain required inspections prior to backfill. Make corrections to installation as required.
 - 5. Coordinate connection and date of service with Utility. Utility back-charges due to mis-coordination or installation problems will be Contractor responsibility to pay and correct.

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- C. Furnish and install electric service in accordance with the serving Utility's requirements.
 - 1. The contract plans show the preliminary design for the Utility installation. Slight changes required by the Utility do not constitute extra work unless cost impacts in material and labor exceed \$5000. In that event, the agreed excess amount will be allowed as a contract change.
 - 2. The Contractor shall provide and install service entrance equipment, all material, conduits, wiring, pull ropes, pole risers, transformer pads, bollards, etc. as shown on Utility design drawings and standards for new power service. Utility standards are available upon request from the Utility or for download from the Utility's website.
- D. Following award of Contract, schedule all service installations and connections with utilities. Construction or start-up delays as a consequence to lack of documented effort by the Contractor which delay the project completion due to lack of Utility services will not be considered valid and Contract liquidated damages may be assessed.

1.06 PROJECT COORDINATION

- A. Prior to submittal, the Electrical Contractor shall coordinate with equipment suppliers to verify sizes, mounting, connections, storage, and delivery of equipment. If there are any issues whereby the solution will be in conflict with plans and specifications, or that are undefined and need direction, they shall be brought to the attention of the Engineer or Construction Manager via the RFI process.

1.07 SUPERVISION

- A. The Contractor shall schedule all activities, manage all technical aspects of the project, coordinate submittals and drawings, and attend all project meetings associated with this Section. The Contractor shall coordinate and confirm that the project schedule is being adhered to and all work is being completed within the scheduled time frames.
- B. The Contractor shall supervise all work in this Section, including the electrical system general construction work, from the beginning to completion and final acceptance.
- C. The Contractor shall coordinate, obtain, prepare, and/or complete the documentation required within this division. All documentation shall be complete and delivered prior to final acceptance.

1.08 INSPECTIONS

- A. General
 - 1. Contract work or materials shall be subject to inspection at any time by the Engineer. If equipment, material, or installation method does not conform to the Contract documents, or does not have a favorably

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reviewed submittal status and has been determined to be unsatisfactory by the Engineer, then the Contractor shall remove said material from the premises; and if said material has been installed, the entire expense of removing and replacing same, including any cutting and patching that may be necessary, shall be borne by the Contractor.

2. The Engineer may inspect and test the fabricated equipment at the factory before shipment to job site. See Electrical Specifications [Factory and Field Testing] for requirements.
3. Work shall not be closed in or covered over before inspection and approval by the Engineer. All costs associated with uncovering and making repairs where non-inspected work has been performed shall be borne by the Contractor.
4. The Contractor shall cooperate with the Engineer and provide assistance at all times for the inspection of the electrical system under this Contract. The Contractor shall remove covers, provide access, operate equipment, and perform other reasonable work which, in the opinion of the Engineer, will be necessary to determine the quality of the work.

B. Milestones requiring inspection and signoff.

1. Underground conduit and grounding system complete. Do not cover any portion of conduit prior to inspection. Conduits must be labeled with temporary tags per Electrical Specifications [Conduit and Boxes] and [Grounding].
2. Factory testing. Coordinate test date with Engineer 2 weeks prior to test scheduled date.
3. Installation of electrical equipment. Equipment is anchored in place, conduit connections are complete, no wire is yet pulled into conduit. Permanent conduit tags must be in place per Electrical Specifications [Conduit and Boxes] and [Grounding].
4. Wire termination complete. Do not energize equipment. All wire tags must be installed and wires terminated per Electrical Specifications [Low Voltage Wire and Data Cable]. Pre-energization testing to commence after inspection.
5. Testing per Electrical Specifications [Factory and Field Testing]. All testing per Electrical Specifications [Factory and Field Testing] shall be witnessed unless specifically declined by the Engineer. Schedule tests with Engineer 2 weeks prior to test date.
6. Start-up per Electrical Specifications [Factory and Field Testing]. Schedule tests with Engineer 2 weeks prior to test date.
7. Punch list – final inspection. Schedule final walkthrough with Engineer one week prior to intended project completion date. All items on punchlist must be complete prior to scheduling walk-through.

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1.09 JOB CONDITIONS

A. Construction Power and Telephone Service

1. The Contractor shall coordinate, furnish and install, temporary utility services required during construction of the project, such as temporary electrical power and telephone service. Temporary services shall be installed in accordance with the applicable codes and regulations of the serving utilities.
2. Upon completion of the project, remove temporary services. All equipment and material shall be the property of the Contractor.

B. Equipment Storage

1. The Contractor shall provide adequate protection for all equipment and materials during shipment, storage and construction.
2. Equipment and materials shall be completely and sufficiently sealed and covered and set on a pallet above grade so that they are protected from weather, wind, dust, water, or construction operations.
3. Equipment shall not be stored outdoors. Where equipment is stored or installed in an area with susceptibility to moisture, such as unheated buildings, untested piping, etc., provide an acceptable means to prevent moisture damage, such as plastic cover and a uniformly distributed heat source to prevent condensation.

- C. The project site is located where outside temperatures vary between 10 deg F. to 110 deg F. Humidity in this area will range from 10% to 100%.

1.10 AREA CLASSIFICATIONS

- A. Area classifications are shown on the site electrical plans. The area enclosed by walls or the entire drawing area shall be classified as shown unless otherwise described in notes.
- B. All electrical equipment, enclosures, conduit, and supports shall be formally rated for or, at minimum, meet the intent of the rating as interpreted by Engineer.
- C. If no area classification rating is shown on the drawings, classification shall default to a NEMA 12 rating for indoors, and NEMA 4 rating for outdoors (non corrosive) and NEMA 4X for corrosive areas both indoors and outdoors.

1.11 SUBMITTAL REQUIREMENTS

A. General

1. Requirements described herein are specific to electrical submittals and are secondary to those described in other general specifications sections. Any additional requirements described here that are beyond those described in those sections shall be provided as described.

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Conflicts shall be resolved by giving priority to general specifications.

2. The Contractor shall ensure that the System Integrator and/or equipment suppliers provide the submittal documentation required in this section. Submittals shall be neat, orderly, complete (without unneeded parsing), and indexed.
 - a. Like equipment shall be submitted complete in a single submittal. For instance, all general electrical materials shall be in a single submittal. All instrumentation, all control panels, or all MCCs and so on shall be submitted complete where possible.
 - b. Submittals that are broken down without sufficient cause will be rejected for future inclusion into a combined submittal.
 - c. Do not separate submittals by area.
 - d. Do not separate submittals by specification division unless agreed to in advance.
 - e. Submittals for work scope covered in this contract are expected to be as follows. This list is intended to be a guideline and not to be specific of all submittals required. Project circumstances or leadtimes or availability will each impact the order and division of submittals.
 - 1) General electrical materials – conduit, wire, labels, etc.
 - 2) Lighting
 - 3) Power Distribution and Motor Controls
 - 4) PLC and Control Panels
 - 5) Engine Generator
 - 6) Seismic Calculations
 - 7) Instrumentation
 - 8) Security System
 - 9) Video Surveillance system
 - 10) Factory and Field Testing forms and procedures
 - 11) Interconnection Diagrams
 - 12) Installation details or procedures
 - 13) O&M Manuals
3. The Contractor shall coordinate submittals with the work so that project will not be delayed. This coordination shall include scheduling the different categories of submittals, so that one will not be delayed for lack of coordination with another. Time extensions will not be allowed due to failure to properly schedule submittals.
4. No material or equipment shall be delivered to the job site until the submittal for such items has been reviewed by the Engineer and marked "no exceptions noted" or "make corrections noted".
5. The equipment specifications have been prepared on the basis of the equipment first named in the Specifications. The Contractor shall note that the second named equipment, if given, is considered acceptable and equal equipment, but in some cases additional design, options, or modifications may be required to meet Specifications or functional

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installation.

6. Exceptions to the Specifications or Drawings or equipment or procedures submitted as "equal" to specified equipment shall be clearly identified in a letter at the front of the submittal. Submittal data for "equal" equipment or procedures shall contain sufficient details so a proper evaluation may be made by the Engineer. The Contractor is responsible for verifying proper application/operation of substituted equipment.
 7. The opinion of the Engineer will be the final determination whether a substitution request meets the design intent.
 8. Deviations from the Contract documents shall **not** be incorporated into the work without prior written approval of the Engineer. A "Change Order" directive from the Engineer is required prior to incorporating any deviation from the Contract documents that has costs associated. The cost differential associated with this change order must be negotiated with the Engineer to amend the Contract to reflect the costs or savings.
- B. Electrical Equipment -- Submittal data shall be grouped by equipment type. Each submittal shall be as complete as possible covering the entire project and scope of supply. Drawings or equipment submitted individually that are not on the critical path will not be accepted for individual review. The electrical submittals shall include (as a minimum):
1. Table of Contents
 2. Comment Letter: The Project Engineer of the System Integrator shall note all deviations from Contract Documents and the reason(s) for the deviation. They may use this forum to inform the Engineer or installing Contractor of important information related to the project. RFIs must be submitted separately. Re-submittals shall include written responses to every comment provided by the engineer during the previous review.
 3. Bill of Materials: The Contractor and System Integrator each shall provide Bill of Material for electrical components formatted as shown below. Generic names or part numbers as defined by a distributor or Integrator are not acceptable. Only the originating manufacturer's name and part number shall be listed. Provide separate bill of materials for each panel, MCC, instrument list, etc.

Bill of Material

Item #	Qty	Tag#	Description	Manufacturer	Part #

4. Shop Drawings:
 - a. Equipment elevations with enclosure details drawn to scale or dimensioned with relative scale.

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- b. Electrical One-line, Elementary, and wiring diagrams
 - c. PLC I/O wiring diagrams
 - d. Interconnection diagrams
- 5. Catalog Data shall include the following: (features and options shall be highlighted, circled, or "arrowed.")
 - a. Instrumentation data summary sheets (by Contractor)
 - b. Manufacturer's technical information brochure
 - c. Physical size and mounting details and illustrations
 - d. Calibration Range
 - e. Input/output signals
 - f. Electric power, air, and/or water supply requirements.
 - g. Options selected and available (Cross out items not included)
 - h. Materials of construction of components
- C. Shop Drawings - Shop drawings shall be furnished for each electrical panel even if one was not shown explicitly on the Drawings. Shop drawings shall be numbered in sequence. Blank drawings or drawings that contain no specific project data will not be accepted for review.

All drawings shall be generated with a computer utilizing AutoCAD or similar drafting program. Drawings shall be no smaller than 11" x 17". The lettering shall be legible and no smaller than 0.75 inch in height.

Drawings shall be custom prepared for this project and shall have borders and a title block identifying the project, manufacturer, system or location, drawing number, drawing title, AutoCAD file name, project engineer, date, revisions, and type of drawing. Diagrams shall carry a uniform and coordinated set of wire colors, wire numbers, and terminal block numbers. The shop drawings shall include the following as a minimum:

- 1. Electrical one-line diagrams detailing all devices associated with the power distribution system. The following applicable information or data shall be shown on the one- or three- line diagram: location, size and amperage rating of bus; size and amperage rating of wire or cable; breaker ratings, number of poles, and frame sizes; power fail and other protective devices; fuse size and type.
- 2. Detailed analog and digital I/O diagrams showing the wiring requirements for each instrument or device connection. Reference the Drawings for an example of each I/O card drawing requirements. If one is not included in the Drawings, then one may be obtained from the Engineer upon request.
- 3. Elementary (wiring) diagrams shall be provided for all relay logic, programmable logic controls, motor controls, power supplies, and other wiring. All elementary (wiring) diagrams shall be drawn in JIC EMP/EGP format and standards showing ladder rung numbers and coil and contact cross referencing numbers.
- 4. Equipment exterior and interior scaled drawings of front, side, elevation, deadfront, front panel devices, and backpan components. Show fabrication methods and details; including material of

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construction, paint color, door latch and lock, and ventilation system. Show shipping split locations and offloading information. Submit base plan showing allowed conduit entrance areas and bolt hole locations.

5. Drawings shall show UL required information as needed to UL label the equipment in accordance with UL procedures for label applied.
 6. Submit full size drawing of all nameplates and tags, as specified herein, to be used on project. Submittal to include the following:
 - a. Dimensions of nameplate.
 - b. Exact lettering and font for each nameplate.
 - c. Color of nameplate.
 - d. Color of lettering.
 - e. Materials of construction.
 - f. Method and materials for attachment.
 - g. Drawing showing location of nameplates on each, panel and enclosure.
- D. Interconnection Diagrams - Interconnection diagrams shall be furnished for each electrical and instrumentation system, even if one was not shown explicitly on the Drawings. Reference the Drawings for an example of interconnection drawing requirements. If one is not included in the Drawings, then one may be obtained from the Engineer upon request. Each interconnection diagram shall include the following as a minimum:
1. The diagrams shall show connection point descriptions and field routing only. This includes, but is not limited to, terminal blocks, field wiring with numbers, junction boxes, conduit material with sizes, and conduit numbers.
 2. Each conduit in the Conduit and Wire Schedule shall be shown on at least one interconnection diagram. Multiple conduits may be shown on a single interconnect and a conduit may appear on multiple interconnects.
 3. Interconnect diagrams shall be based on connected equipment, ie. Interconnection diagram for Pump 1. All components connected to the MCC cubicle for Pump 1 shall be shown on a single interconnect.
 4. All terminations points on the diagram shall be shown with the actual equipment identification terminal number or letter.
 5. Interconnections between equipment shall be shown terminal to terminal with conduit lines in between. Wires within the same conduit shall be bundled and shown as a single line and labeled with the conduit name and wire fill. If not all wires within a conduit are used on a particular interconnection diagram, then the fill shall be noted as XX of XXX wires.
 6. Conduit shall be shown as routed through junction boxes and pull boxes. Wire fill leading into a pull box shall be equal to the combined outgoing conduit wire fill.

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7. Each wire and color code shall be shown connected to a terminal block. Spare wires may be shown as a list of wire numbers located near the end point of the wire.
8. Schematic symbols shall be used for field devices showing electrical contacts. Circuit polarities shall be shown where applicable.
9. The diagrams shall show all other Contract and shop drawing numbers, for reference, that are associated with each device that is interconnected. Attached with each interconnect, a copy of all the support documents used in preparing interconnects. This includes current issues of panel schematics, connection diagrams, terminal block diagrams, submittals, contract drawings, vendor drawings and all other data used to develop the interconnection diagram as noted in the "Reference Documents" corner of interconnect drawings.
10. Provide a notes section on each interconnect drawing. In the note section list any variances from the Contract conduit schedule necessary for completing the interconnections. Change orders regarding wire fill, conduit schedule and errors in plans regarding conduits and wires may not be processed until interconnect drawings have been received for such work.
11. The interconnection drawings shall be As-Built by the Contractor after start-up and prior to project completion. All deletions and additions of equipment, wire and cables shall be clearly shown. Interconnects shall include list of all applicable field instructions and change orders.
12. The diagrams shall be utilized by the electrician during all phases installation and connection of all conductors to ensure coordination of equipment interconnect.
13. Field wiring shall not start before the interconnection drawing have been submitted by the Contractor and approved by the Engineer.
14. The Contractor shall not pull in any wires into conduits that do not have approved interconnects. If the Contractor pulls and/or terminates wire without approved interconnect drawings, the Contractor will not be reimbursed for labor for re-pulling/replacing wires even if there was an error in wire fill or sizing in the "Wire and Conduit Schedule". If the Contractor pulls and/or terminates wire without approved associated interconnect drawings, then all progress payments for that particular area of work will be withheld until approved interconnect drawings are in use.

E. Seismic Anchor Design Calculations

1. All switchgear, motor controls centers, transformers, cabinets, raceways, supports, and electrical materials shall be so installed as to remain in a secure and captive position when subjected to a horizontal force in accordance with the current, applicable, and more stringent of California Building Code (CBC) or International Building Code (IBC) requirements. Method of securing shall constrain equipment against

both vertical and horizontal forces and overturning forces.

2. Calculations as prepared by a structural engineer registered in the State of California shall be submitted in accordance with code requirements for earthquakes forces on all specified equipment. Calculations shall include wind loading forces for equipment installed outdoors.

1.12 OPERATING AND MAINTENANCE INFORMATION

A. Operations and Maintenance Manuals

1. Provide Operation and Maintenance manuals per specifications as described in "Submittal Requirements" in this section with the following additional requirements:
 - a. A comprehensive index.
 - b. A complete "Record" set of favorably reviewed electrical submittals as provided under subsection "Submittal Requirements" illustrating all components, piping, and electrical connections.
 - c. A complete list of the equipment supplied, including serial numbers, ranges, catalog cuts, and pertinent data.
 - d. Full specifications on each item.
 - e. Detailed service, maintenance and operation instructions for each item supplied. Schematic diagrams of all electronic devices shall be included. A complete parts list with stock numbers shall be provided for the components that make up the assembly. All of these shall be originals, no copies.
 - f. Special maintenance requirements particular to this system shall be clearly defined, along with special calibration and test procedures.
2. Submit electronic readable PDF file format (CD disk copies (2) or email with attachments or download links) of the proposed O&M manuals for review by the Engineer. Submittals shall be delivered timely to the Engineer to allow for review period, corrections, and re-submissions as necessary.
 - a. General Contractor supervision must not be circumvented by sending submittals direct to Engineer.
 - b. O&M Submittals shall be published 1st electronically and 2nd on hard copy paper stock.
 - c. Electronic Submittals shall be transmitted with the hard copy submittals and be viewable using a PDF reader.
 - d. Electronic submittals shall be assembled in accordance with the specifications for hard copy submittals with table of contents, bookmarks, tabs, subtabs, etc. utilizing the electronic

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bookmarks feature available in the PDF assembler.

- e. Electronic (PDF) submittals must follow all applicable requirements for hard copy submittals including indexing, item selection indication, bookmarks, etc.
- 3. Provide four (4) hard copy O&M manuals per specifications as described in SUBMITTALS REQUIREMENTS in this section.
 - a. Deliver approved hard-copy O&M manuals to the project site and Owner prior to pre-operational testing or equipment start-up.
- B. At the end of the project hard copy and soft copy electronic PDF files, shall be updated to "as-built" conditions.
- C. Provide two (2) sets of compact disk (CD) containing all shop drawings, application programs, configurations, calculations, documents or other computer electronic files prepared for this project in native file format and updated to reflect as-built conditions.

PART 2: PRODUCTS

2.01 QUALITY

- A. All equipment and materials shall be new, in current production, and the products of reputable suppliers having adequate experience in the manufacture of these particular items. For uniformity, only one manufacturer will be accepted for each type of product.
- B. Products specified that have become obsolete (out of current manufacturing, or have been superseded by another product) shall be cross-referenced to a replacement product(s) and provided in lieu of the specified product(s) for no additional cost. Under no conditions, shall products be submitted or furnished that are known (on manufacturer's list of obsolescence) and expected to be removed from current production within 12 months after project submittal. Products found to have been furnished this way will be removed and replaced at Contractor's expense.
- C. All equipment shall be designed for the service intended and shall be of rugged construction, of ample strength for all stresses which may occur during fabrication, transportation, erection, and continuous or intermittent operation. All equipment shall be adequately braced and anchored and shall be installed in a neat and workmanlike manner. Appearance and safety, as well as utility, shall be given consideration in the design of details. All components and devices installed shall be standard items of industrial grade, unless otherwise noted, and shall be of sturdy and durable construction suitable for long, trouble free service. Light duty, fragile and competitive grade devices of questionable durability shall not be used.
- D. The Contractor should expect that there will be occasional freezing conditions at the project site in outdoor locations. Instrument valves, tubing, instrumentation, and other components, etc. which are outdoors and

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susceptible to damage if frozen, must be provided with internal or external protection. Freeze protection can consist of internal or external active heaters with thermostats and/or passive insulation systems. Active systems can be powered from a nearby receptacle or via the conduit intended for the device.

- E. Products that are specified and include a manufacturer, trade name or catalog number are intended to establish a standard of quality, performance, warranty and service. Products that are specified "or equal," do not prohibit the use of equal products of other manufacturers provided they are submitted, identified and promoted as equal, and favorably reviewed by the Engineer prior to procurement and installation.
- F. Products submitted as "equal" to the named products will be reviewed for conformance with the specifications and in comparison with the first named product. If the equal product meets specifications, but does not have a feature or performance characteristic that is available with the first named product, and that feature or performance is required for this project, then the submitted equal product may be rejected on those grounds.
- G. In the event that some claims of the manufacturer of submitted "equal" product are called into question by the Engineer, the Contractor, may be required to prove those claims either prior to installation or during startup of product. If the product does not meet the claims made or specifications, the product may be rejected by the Engineer and a replacement product must be submitted by the Contractor in its place. All cost for the rejected product, installation, testing, and removal will be the responsibility of the Contractor.
- H. Underwriters Laboratories (UL) listing is required for all substituted equipment when such a listing is available for the first named equipment. Extra parts, labor, panel space, power supplies, GFIC devices shall be provided as necessary for incorporation of specified non-UL components.
- I. When required herein or requested by the Engineer, the Contractor shall submit equipment or material samples for test or evaluation. The samples shall be furnished with information as to their source and prepared in such quantities and sizes as may be required for proper examination and tests, with all freight and charges prepaid. All samples shall be submitted before shipment of the equipment or material to the job site and in ample time to permit the making of proper tests, analyses, examinations, rejections, and resubmissions before incorporated into the work.

2.02 NAMEPLATES & TAGS

- A. Equipment exterior nameplates - Nameplate material shall be rigid laminated black plastic with beveled edges and white lettering; except for caution, warning, and danger nameplates the color shall be red with white lettering. The size of the nameplate shall be as shown on the drawings. No letters are allowed smaller than 3/16". All nameplates located outdoors shall be UV resistant. Securely fasten nameplates in place using two stainless steel screws type, 316L, if the nameplate is not an integral part of the device. Epoxy cement or glued on nameplates will not be acceptable. Engrave the nameplates with the inscriptions as approved by the Engineer in the

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submittal.

1. For each major piece of electrical equipment provide a manufacturer's nameplate showing the Contract specified name and number designation, and pertinent ratings such as voltage, # of phases, ratings, etc.
 2. For each device with a specific identity (pushbutton, indicator, instrument, etc.) mounted on the exterior or deadfront of a piece of equipment provide a nameplate with the inscription as shown on the Drawings and described herein.
 3. Where no inscription is indicated on the Drawings or described herein, furnish nameplates with an appropriate inscription providing the name and number of device.
 4. Install Safety Signs in accordance with the latest OSHA requirements.
 - a. Entrances to electrical rooms and stations: Danger Sign requirements, ELECTRICAL ROOM, HIGH VOLTAGE (define voltage, example 480 VAC) KEEP OUT, AUTHORIZED PERSONNEL ONLY.
 - b. Equipment enclosures, cable tray and wireway where 120 VAC or higher and 50 V DC and higher exist: Danger Sign requirements, HIGH VOLTAGE (define voltage, example 480 VAC) AUTHORIZED PERSONNEL ONLY.
 - c. Equipment such as motor control centers, control panels, etc., where more than one source may be present in an enclosure or cubicle: Danger Sign requirements, VOLTAGE (define voltage, example 120 VAC control voltage or 480 VAC power) FROM MULTIPLE SOURCES IN THIS ENCLOSURE.
 - d. Equipment such as switchboards, switchgear, panelboards and motor control centers: Warning Sign requirements, WARNING, SERVICE ENTRANCE DISCONNECT FOR 1 OF ____ (define quantity) SERVICES TO THIS BUILDING. OTHER SERVICE ENTRANCE DISCONNECTS ARE LOCATED AT (define locations).
 5. Caution, warning and danger nameplates shall be red with white lettering
- B. Equipment Interior Nameplates - Nameplate material shall be clear plastic with black machine printed lettering as produced by a KROY or similar machine; except caution, warning, and danger nameplates shall have red lettering. The size of the nameplate tape shall be no smaller than 1/2" in height with 3/8" lettering unless otherwise approved by the Engineer. Securely fasten nameplates in place on a clean surface using the adhesion of the tape. For each device with a specific identity (relay, module, power supply, fuse, terminal block, etc.) mounted in the interior of a piece of equipment provide a nameplate with the inscription as shown on the Drawings and described herein. Where no inscription is indicated on the

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Drawings or described herein, furnish nameplates with an appropriate inscription providing the name and number of device used on the submittal drawings. Stamp the nameplates with the inscriptions as approved by the Engineer in the submittal.

- C. Equipment Tags - When there is no space or it is impractical to attach an engraved plastic nameplate with screws, as is the case with most field devices and instruments, the Contractor shall attach a tag to the equipment with the same inscriptions as specified above in paragraph A. The tag shall be made from stainless steel material and the size of the nameplate shall be no smaller than 3/8"h x 2"w with 3/16" machine printed or engraved lettering unless otherwise approved by the Engineer. The tag shall be attached to the equipment with stainless steel wire of the type normally used for this purpose.

2.03 FASTENERS

- A. Fasteners for securing equipment to walls, floors, or ceilings, shall be stainless steel. The minimum size fastener shall be 3/8 inch diameter.

2.04 COMPONENTS

A. Switches and Pushbuttons

1. Switches (HS) and pushbuttons (HC) for general purpose applications shall be water and oil tight as defined by NEMA 4X, corrosion resistant as defined by NEMA ICS 6-110.58, U.L. listed, standard 30 mm diameter, with plastic holding nut.
2. Switches and pushbuttons shall have contacts rated NEMA A600 or 10 amperes continuous and 600 VAC. Provide NO and NC contacts as required.
3. Engraved black legend plates shall be provided to define each switch and pushbutton function.
4. Selector switch handles and pushbutton caps shall be black unless otherwise noted on drawing. Emergency Stop caps shall be red.
5. Selector switches for hand-off-auto (HOA) applications shall have the hand position to the left, off in center, and auto in the right position.
6. Pushbuttons and selector switches in hazardous locations shall have hermetically sealed contacts or explosion proof enclosures.
7. Lockout stop pushbuttons shall include padlocking attachment. Pushbutton type shall be coordinated with padlock attachment type.
8. Switches and pushbuttons shall be Allen-Bradley 800H, or equal.

B. Indicating Lights

1. Indicating Lights for general purpose applications shall be NEMA 4X,

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corrosion resistant as defined by NEMA ICS 6-110.58, U.L. listed, 30 mm diameter, with plastic lens, plastic holding nut, and miniature bayonet lamp base.

2. Lamp shall be full voltage 120 VAC with 28 chip (min) High Intensity LED.
3. Indicating lights shall have contacts rated NEMA A600 or 10 amperes continuous and 600 VAC. Provide NO and NC contacts as required.
4. Engraved black legend plates shall be provided to define each lights function.
5. Indicating light type and color of lens shall as follows or as otherwise shown on the Drawings:
 - a. Open/On Red
 - b. Closed/Off Green
 - c. Alarm Amber or Blue
 - d. Power On White
6. Indicating lights designated "PTT" on wiring diagram or shown with push-to-test wiring shall be provided with a push-to-test switch and wiring.
7. Indication lights shall be Allen-Bradley 800H, or equal.

C. Relays and Timers

1. General: Relays and timers shall be provided with N.O. or N.C. contacts as shown on the Drawings. All spare contacts shown shall be provided. Contacts shall be rated 10 amps minimum at 120 VAC, 60 Hz unless otherwise shown on the Drawings. Coil voltage shall be 120 VAC unless otherwise described or shown on the Drawings. Relays and timers shall be designed for continuous duty. All relays shall be U.L. listed. All relays and sockets shall be the product of a single manufacturer. The following is a summary of abbreviations associated with relays and timers:

CR	– Control relay
TR	– Timing relay
TDOE	– Time delay on energization
TDOD	– Time delay on de-energization
PR	– Power Relay

2. Sockets for plug-in relays and timers shall be standard industrial type din rail mount with barrier type pressure plate screw terminals. Sockets shall be rated 300 VAC, 10 amps minimum.
 - a. Blade 8 or 11 pin for coil voltage above 90 volts AC or DC.
 - b. Octal 8 or 11 pin for coil voltage below 90 volts AC or DC.

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3. Control relays (CR) shall be plug-in type with neon indicating lights and clear see-through sealed housing to exclude dust. Provide IDEC Type RR, or equal. Two form-C contacts (minimum) shall be provided on each relay.
4. Time delay relays on energization (TR-TDOE) shall be solid state plug-in relays with adjustable timer ranges from 1 second to 10 hours selectable unless other ranges are shown. Provide LED timer energized indicator lamp. Time delay relays shall be IDEC RTE, or equal.
5. Time Delay Relays (TR-TDOD)
 - a. Time delay relays on de-energization (TR-TDOD) (continuous power control input) shall be solid state plug-in relays with a timer adjustable range from 1 second to 10 hours selectable unless other ranges are shown. Provide LED timer energized indicator lamp. Time delay relays shall be IDEC RTE, or equal.
 - b. Time delay relays on de-energization (TR-TDOD) (true off) shall be solid state plug-in relays with a timer adjustable range from 1 second to 10 minutes unless other ranges are shown. True off time delay relays shall be IDEC GT3F-2, or equal.
6. Power relays (PR) shall be plug-in type and clear see-through sealed housing to exclude dust. Provide Magnecraft Type 389FXCXC-120A, or equal. 3PDT contacts rated 20A or 1 HP at 240 VAC (minimum) shall be provided on each relay. Furnish compatible blade type relay socket model 70-788EL11-1 or equal.

D. Amperage Transducer:

1. Amperage transducer shall produce 4-20mA DC output directly proportional to measured current (utilizing integral CT) of the power feed. Transducer range shall be selected for the load to be measured with expected load current between 50% and 75% of available measurement range. Transducer shall measure true RMS current and have an accuracy of 5% and repeatability of 1/2% of full scale (minimum). Operating temperature range shall be -20 deg C to 50 deg C. Transducer shall have separate zero and span adjustments. Insulation between output and case shall be rated at 1000VAC. Amperage transducer shall be as manufactured by Neilsen-Kuljian (NK technologies) ATR series or equal.

2.05 MOLDED CASE CIRCUIT BREAKERS

A. GENERAL

1. Circuit breakers and motor circuit protectors shall be manufactured by Eaton Cutler-Hammer, Square D, G.E., Siemens, or equal.
2. Circuit breakers shall be the bolt-on type.

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3. Multiple-pole circuit breakers shall be designed so that an overload on one pole automatically causes all poles to open. The use of tandem or dual circuit breakers in a normal single-pole space to provide the number of poles or spaces specified are not acceptable.
4. Molded case circuit breakers shall be operated by a single toggle-type handle and shall have a quick-make, quick-break switching mechanism. An automatic trip of the breaker shall be clearly indicated by the handle position. Contacts shall be non-welding silver alloy and have flash reduction arc chutes. A push-to-trip button on the front of the circuit breaker shall provide a local manual means to exercise the trip mechanism.
5. Minimum interrupting capacity:
 - a. 480 volt circuit breaker shall have a minimum interrupting capacity of 42,000 amperes.
 - b. 120 or 208 or 240 volt breaker shall have a minimum interrupting capacity of 22,000 amperes
6. Circuit breakers shall be UL listed for series application.
7. Where indicated circuit breakers shall be current limiting.
8. Where indicated on drawings, provide UL listed circuit breakers for continuous duty at 100% of their ampere rating in the intended enclosure.
9. Furnish add-on features such as auxilliary position status contacts, trip indication contacts, shunt trip coils, etc, as shown in the drawings.

B. TRIP UNIT – Molded Case Circuit Breakers

1. Circuit Breakers less than 400 volt shall have thermal-magnetic (TM) trip units and inverse time-current characteristics. All other circuit breakers shall have trip units as defined herein.
2. The trip unit shall be Eaton type Digitrip 310+ or equal.
3. Each molded case circuit breaker microprocessor-based tripping system shall consist of three (3) current sensors, a trip unit and a flux-transfer shunt trip. The trip unit shall use microprocessor-based technology to provide the adjustable time-current protection functions. True RMS sensing circuit protection shall be achieved by analyzing the secondary current signals received from the circuit breaker current sensors, and initiating trip signals to the circuit breaker trip actuators when predetermined trip levels and time-delay settings are reached.
4. Interchangeable rating plugs shall establish the continuous trip ratings of each circuit breaker. Rating plugs shall non-adjustable. Rating plugs shall be interlocked so they are not interchangeable between frames, and interlocked such that a breaker cannot be closed and latched with the rating plug removed.
5. Furnish 24VDC power supply with terminal blocks and 0.5A miniature circuit breakers to distribute power to each circuit breaker trip unit

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that requires it. Circuit breaker trip units shall be operable and adjustable with zero current flowing through the circuit breaker. The power supply shall be connected after the main breaker and above any feeder circuit breakers.

6. System coordination shall be provided by the following microprocessor-based time-current curve shaping adjustments:
 - a. Adjustable long-time setting (set by adjusting the trip setting dial to an amount not to exceed rating plug)
 - b. Adjustable short-time setting and delay with selective flat or I^2t curve shaping,
 - c. Adjustable instantaneous setting
 - d. Adjustable ground fault setting and delay with selective flat or I^2t curve shaping.
7. The microprocessor-based trip unit shall have both powered and unpowered thermal memory to provide protection against cumulative overheating should a number of overload conditions occur in quick succession.
8. Furnish internal ground fault protection with adjustable settings. Provide neutral ground fault sensor for four-wire loads.
9. Breakers shall have built-in test points for testing the long-time delay, instantaneous, and ground fault functions of the breaker by means of a test set.

2.06 MOTOR CONTROL ACCESSORIES

A. Control Power Transformer:

1. Control power transformer shall be epoxy encapsulated for dust and moisture protection. The internal wiring shall be copper and have 105 deg. C insulation rating. The unit shall feature barriered screw terminals for connection to electrical circuits. Provide with time-delay, slow-blow secondary fuse rated to protect the transformer and interrupt 10,000 amperes at 120VAC. Two primary fuses rated for 480 VAC and AIC as shown in the drawings shall be provided. Transformer minimum size and voltage ratings shall be as shown on Contract drawings. Control power transformer shall be Micron Impervitran, Cutler Hammer MTE or equal.

B. Motor Starter:

1. Motor starters shall be NEMA rated of size shown on the Drawings. Coil voltage shall be 120 volts AC or as shown otherwise in elementary drawings. Provide auxiliary contacts as required per the elementary diagrams and/or as shown in the P&IDs. Motor starters shall include contactor and overload relay as a package unit or as separate pieces to accommodate for special switching requirements. Motor starters shall be Cutler Hammer Freedom, Square D, GE or equal.

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C. Motor Overload:

1. External motor overload protection shall be required per drawings. External overload shall use bimetallic heating strips and provide +/- 15% adjustment for full load amperage. Provide Cutler Hammer Freedom or equal.

D. Voltage monitor Relay (VMR)

1. The voltage monitor relay (VMR) shall continuously monitor the three phases for power loss, low voltage, phase loss, and phase reversal. The VMR shall interface to the control circuit with DPDT contacts rated for 4 Amps at 120 VAC. The VMR shall have a drop-out voltage adjustment, time delay adjustment, and status indicating LEDs. Voltage monitor relay shall be Time Mark 2652, or equal.

2.07 DEVICES

A. Switches

1. General purpose commercial grade switches shall be manufactured in accordance with UL 20. Switches shall be one pole, brown, 20 amps at 277 VAC, 1HP at 120 VAC, 2 HP at 240 VAC. Switches shall have copper alloy contact arm with silver cadmium oxide contacts. Switches shall have slotted terminal screws and a separate green grounding screw. Provide Leviton 1221, or equal.
2. Wall mount commercial grade motion detector switches (denoted with M next to switch symbol in drawings) shall utilize passive infrared detection with 180 deg field of view to determine if the space is occupied by personnel. The device shall be capable of switching incandescent (800W at 120V) and fluorescent (1200VA at 120V) lamps with electronic ballasts. The device shall feature a manual-off-auto switch. A delay off time adjustment shall be settable from 30 seconds to 30 minutes. The device shall incorporate a photocell with light intensity adjustment to keep the switch from activating when light levels are above setting. Provide Leviton ODS10, or equal.
3. Timer Switches (denoted with T next to switch symbol in drawings) shall provide a variable time range countdown of lighting circuit. Depressing touchplate turns lights on for the dial setting located behind the touchplate. Dial setting ranges of 1 minute to 18 hours shall be attainable. An illuminated LED indicates the load is on and blinking LED accompanied by annunciator sound indicates end of time cycle. Device shall be capable of switching incandescent (600W at 120V) and fluorescent (900W at 120V) lamps with electronic ballasts. Timer Switch shall be Leviton 6652, or equal.

B. Receptacles

1. General purpose receptacles shall be commercial grade, duplex and rated 20 amps, 120 VAC, 2 pole, 3 wire grounding, NEMA 5-20R configuration, specification grade, and side wired to screw terminals.

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Face color shall be brown when paired with stainless steel covers. General purpose receptacles shall be specification grade Leviton 5362-B or equal.

2. Ground fault circuit interrupter receptacles (denoted by GFI next to receptacle symbol on plan) shall be used where noted as GFI and in all boxes shown as weatherproof (WP). GFI receptacles shall be commercial grade, duplex, brown, 20A, 120V, back and side wired, with "test" and "reset" buttons. "Daisy Chain" connecting multiple receptacles from one GFI unit is not acceptable. GFI receptacles shall be Leviton 8898, Leviton MGNF2-B, Leviton 7899, or equal.

2.08 DISCONNECTS

A. Disconnect Switch:

1. Disconnect Switch shall be heavy duty, horsepower rated, three pole, single throw, fusible/non-fusible with quick make/break operating mechanism. The enclosure shall be 316 stainless steel and rated NEMA 4X. The enclosed switch shall be rated for 480 Volt, and 10HP (minimum) unless otherwise shown on the drawings. Provide fuses, auxiliary contacts, or indicators as required by the motor control or one-line diagram. The operator shall actuate the switch side mounted handle and have provisions for up to 3 padlocks. Disconnect switch shall be Cutler Hammer DH series, Square D or equal.

2.09 SPARE PARTS

- A. The Contractor shall supply all spare parts prior to start of field tests. All parts shall be sealed in plastic bags and delivered to the site in a heavy duty plastic storage bag. Bag shall be clearly labeled with part name & number and the corresponding equipment tagname.
- B. The Contractor shall make available any replacement parts that are not manufacturer's normal stock items for immediate service and repair of all the instrumentation equipment throughout the warranty period.
- C. The following spare parts shall be provided as part of this Contract:
 1. Ten fuses for each type of fuse below 31 amps, 3 of each type above
 2. Ten lamps for each type of light, two lamps per color if LED type.
 3. Two relays for each type of control, and time delay relay.
 4. One voltage monitoring relay or power fail relay.

PART 3: EXECUTION

3.01 CONSTRUCTION METHODS

- A. Equipment shall be assembled and wired by the manufacturer prior to shipment. Field modifications or changes are not allowed without a written "change order" to the Contract. Field changes, however large or small, shall be executed using the components, materials, wiring, labeling, and assembly methods identical to that of the original supplied equipment.

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- B. Electrical plugs, receptacles, cords, and connectors required to power or interface the equipment and panels shall be furnished and installed by the Contractor.
- C. Factory as-built drawings for each custom manufactured control panel or MCC shall be shipped with the equipment and placed inside in waterproof envelopes.

3.02 EQUIPMENT FABRICATION

- A. All electrical equipment, including custom manufactured equipment, shall meet the requirements of Underwriters Laboratories (UL) and bear the appropriate label. Panels shall be affixed with UL label prior to shipment and be built in accordance with the UL guidelines and procedure that corresponds to the UL label. Custom control equipment shall bear a UL-508 label, minimum, with additional UL labels as required per intended service.
- B. Panel cutouts for devices (i.e. indicating lights, switches) shall be cut, punched, or drilled and smoothly finished with rounded edges. Exposed metal from cutouts that are made after the final paint finish has been applied shall be touched up with a matching paint prior to installing device.
- C. Equipment doors shall swing freely and close and latch with proper alignment.
- D. Component within the electrical equipment shall be securely mounted on an interior subpanel or backpan and arranged for easy servicing. Mounting bolts and screws shall be front mounted for device removal without special tools or removal of entire mounting panel.
- E. A ground bus shall be provided in each enclosure or cabinet. It shall have provisions for connecting a minimum of ten grounding conductors. Screw type lugs shall be provided for connection of grounding conductors. All grounding conductors shall be sized as shown on plans or in accordance with NEC Table 250-95, whichever is larger.
- F. Bolts and screws for mounting devices on doors shall have a flush head which blends into the device or door surface. No fastening devices shall project through the outer surfaces of equipment.

3.03 WORKMANSHIP

- A. All work in this division shall conform to the codes and standards outlined herein.
- B. Installation shall be performed by qualified personnel providing first class workmanship per Electrical Specifications [Electrical General, Qualifications].
- C. Maintain equipment installed (or to be installed) in new condition. Protect equipment from damage while in Contractor care from dust, water, or mishaps that are typical to construction sites
- D. Confirm that equipment and materials are correct for their intended duty and will be installed per manufacturer guidelines. Equipment and components

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found to be installed inconsistent with manufacturer guidelines and/or these specifications will not be acceptable and subject to removal and replacement.

- E. Upon completion of daily work, remove excess materials, scraps, and debris from the work area and from the inside of equipment.
- F. Upon notification, stop work on any portion of the installation that is determined to be non-compliant with contract or being installed by unqualified personnel.
- G. Perform all work to correct improper installations at no additional cost to the owner.
- H. Equipment furnished under this contract or provided to Contractor for installation shall be installed in accordance with manufacturer's instructions, installation calculations, and contract documents.

3.04 EQUIPMENT SHIPMENT AND STORAGE

- A. Shipment -- Any equipment whose destination (jobsite) is more than 25 miles from the factory shall be carefully protected for shipping. All openings shall be protected by plywood securely fastened to the framework of the equipment. Equipment shall be adequately covered during local delivery.
- B. Storage -- From the time of receipt until the equipment is installed and energized, the equipment shall be considered in storage. While in storage, a 120V, 1 phase source of power shall be made available and connected to space heaters in all items of equipment so equipped. Equipment not provided with space heaters shall be provided with a light bulb or electric heater while in storage to prevent moisture condensation. Unless stored indoors, it shall be at least 1 foot above grade covered with at least 2 layers of heavy polyethylene plastic sheets and anchored to prevent damage by high winds. All equipment shall be protected from dust and moisture prior to and during construction.

3.05 DAMAGED PRODUCTS

- A. Damaged products that cannot be repaired to new condition shall be replaced with new products. All equipment and materials shall be in like-new condition at start-up and commissioning.
- B. Any equipment furnished outside of contract to the Contractor shall be repaired or replaced if damaged while in the Contractor's care. The Contractor shall pay for the parts and/or services of the original equipment manufacturer (OEM) to troubleshoot, assess, and repair damaged equipment.
- C. Minor cosmetic damage shall be repaired by spray painting, after properly preparing the surface, all scratches or defects in the finish of the equipment. Only identical paint furnished by the equipment manufacturer shall be used for such purposes.

3.06 INSTALLATION

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A. General

1. Install all products per manufacturer's recommendations and the Drawings.
2. Provide all necessary hardware, conduit, wiring, fittings, and devices to connect the electrical equipment provided under other Sections.
3. Protect wiring insulation from wear by installing rubber cushions, bushings, or strip insulation, or by fastening the wiring to a rigid surface with zip ties and anchors.
4. Provide additional devices, wiring, conduits, relays, signal converters, isolators to complete interfaces of the electrical and instrumentation system.
5. Changing normally open contacts to normally closed contacts or vice versa
6. Adding additional relays to provide more contacts as necessary.
7. All programmable devices (not specifically excluded herein) shall be programmed, set-up and tested by the Contractor prior to startup. Programming and set-up parameters shall be adjusted or changed as directed by the Engineer during start-up and throughout the warranty period.
8. Coordinate with the Engineer and setup all alarm, process, and operation setpoints.
9. Keep a copy of the manufacturer's installation instructions on the jobsite available for review at all times prior to and during the installation of the associated equipment.

B. Panels and enclosures:

1. Install panels and enclosures at the location shown on the Plans or approved by the Engineer.
2. Install level and plumb.
3. Seal all enclosure openings to prevent entrance of insects and rodents.
4. Clearance about electrical equipment shall meet the minimum requirements of NEC 110.26

C. Conduits and Ducts:

1. Install all conduits and ducts per Electrical Specifications [Conduit and Boxes] and [Grounding].
2. Minimum wire bending space at terminals and minimum width of wiring gutters shall comply with NEC tables 312-6 (a) & (b).

D. Wiring, Grounding, and Shielding:

1. Observe proper grounding and shielding practices as this application environment is generally noisy. The shield of shielded cables shall be terminated to ground at one end only, the origination end. The shield at the other end shall be encased in an insulated material to isolate it from ground.

E. Cutting and Patching:

1. The Contractor shall do all cutting and patching required for installing his work. Any cutting which may impair the structure shall require prior approval by the Engineer. Cutting and patching shall be done only by skilled labor of the respective trades. All surfaces shall be restored to their original condition after cutting and patching.

F. Cleaning and Touch up:

1. At the completion of the work, all parts of the installation, including all equipment, exposed conduit, and fittings, shall be thoroughly cleaned of grease and metal cuttings. Any discoloration or other damage to parts of the building, the finish, or the furnishings, due to the Contractor's failure to properly clean the system, shall be repaired by the Contractor.
2. The Contractor shall thoroughly clean any of his exposed work requiring same.
3. Vacuum and clean the inside of all electrical and instrumentation enclosures prior to applying power.
4. The Contractor shall paint scratched or blemished surfaces with the necessary coats of quick drying paint to match existing color, texture and thickness. This shall include all prime painted electrical equipment including but not limited to enclosures, poles, boxes, devices etc.

3.07 APPLICATION OF POWER

- A. The Engineer will direct the energization and de-energization of all existing and new equipment. The Contractor is not authorized to energize or de-energize any equipment unless they have been given written permission to do so or while in the presence of the Engineer.

1. Any equipment that is under repair, demolition or installation shall be locked off and tagged out of service with Contractor supplied padlocks and tags.
2. The Contractor is required to comply with NFPA 70E and specifically in regards to safety when working on live equipment. Obtain work permits when needed to do live work.

- B. The Contractor is responsible for grounding of high and medium voltage cabling and/or bus during installation and removal of equipment. The

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contractor is responsible for complying with all California Electrical Safety Orders (ESO) and Occupational Safety and Health Act (OSHA) safety requirements and procedures while working in or near medium voltage equipment.

3.08 WARRANTY

- A. The Contractor shall warrant all electrical and instrumentation equipment & software for a period of 1 year from date of final acceptance. Standard published warranties of equipment which exceed the preceding specified length of time shall be honored by the manufacturer or supplier.
- B. The Contractor shall have a staff of experienced personnel available to provide on-site warranty service on 2 working days notice during the warranty period. Such personnel shall be capable of fully testing and diagnosing hardware & software and implementing corrective measures.

3.09 FINAL ACCEPTANCE

- A. Final acceptance will be given by the Engineer after the equipment testing is complete, each deficiency has been corrected, final documentation has been provided, and all the requirements of Contract documents have been fulfilled.
- B. At the end of the project, following the completion of the field tests, and prior to final acceptance, the Contractor shall provide the following:
 - 1. Each "operation and maintenance" manual shall be modified or supplemented to reflect all field changes and as-built conditions.
 - 2. Two (2) disk copies of all final documentation to reflect as-built conditions.
- C. Keys: Submit two sets of all keys for locks supplied on this project. Wire all keys for each lock securely together. Tag and plainly mark with lock number or equipment identification, and indicate physical location, such as panel or switch number.

END OF SECTION

SECTION 16110

CONDUIT AND BOXES

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. Labor, materials, equipment, tools, safety gear, test equipment, incidentals, services, and transportation for a complete electro-mechanical installation as shown on the Drawings, included in these Specifications, or as can be reasonably implied from project descriptions.
- B. The scope of work includes:
 - 1. Furnish and install conduits, junction boxes, pull boxes, and associated hardware. Provide hardware, conduit, fittings, and other parts for a complete raceway installation.
 - 2. Furnish and install grounding system required by drawings, or if not shown or defined, as required by Article 250 of the NEC.
 - 3. Installations shall be designed and installed with components meeting the NEMA area designation.
- C. Work includes that specified in Electrical Specifications [Electrical General].

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Low Voltage Wire & Data Cable]
- C. Electrical Specifications [Grounding]
- D. Project Drawings

1.03 QUALIFICATIONS

- A. Material furnished under this specification shall be installed by qualified installers meeting requirements specified in Electrical Specifications [Electrical General, Qualifications].

1.04 SUBMITTAL REQUIREMENTS

- A. Provide submittals and drawings as specified in Electrical Specifications [Electrical General, Submittal Requirements].

PART 2: PRODUCTS

2.01 CONDUIT, RACEWAYS AND WIREWAYS

- A. GENERAL - Conduit, raceways, and wireways, wiring methods, materials, installation shall meet all requirements of the NEC, be UL labeled for the application, and meet the minimum following specifications.
1. All wiring shall be installed in conduits, raceways, or wireways when interconnecting equipment and devices.
 - a. The minimum size conduit shall be 3/4-inch unless indicated otherwise on the Drawings or for special connections to equipment.
 - b. Provide cords and cord seals for devices or instrumentation requiring waterproof seal to maintain NEMA 4 or 4X ratings. Example devices include lighting and pipe mounted instruments that are located below grade.
 2. Conduits may connect into junction boxes or wireways as shown in the drawings or as requested by Contractor and approved by Engineer. Junction boxes (circle with J in drawings) can be as simple as a conduit or JIC box, or larger box as determined by contractor and needed for the installation. Drawing may depict junction box requirements. Wireways or junction boxes shall be rated for area (as noted in the drawings), or furnish minimum NEMA 4 if not noted.
 3. The Contractor shall use conduit material types (SPEC per conduit schedule) as defined below or as otherwise shown in the contract drawings or as specifically called out in the conduit schedule.
 - a. Non-exposed underground portions of conduit run shall be PVC-40 for all signals and voltages unless otherwise shown in the conduit schedule.

- b. Exposed conduit material (not underground and beyond transition) shall be per the following table unless specifically noted otherwise in the plan drawings. The conduit schedule denotes the conduit type for non-exposed (under-ground, in-concrete, etc.) and does not apply or coordinate with this table. Exposed condulets, elbows, fittings, device boxes, and hardware shall be of the same material and finish as the adjacent conduit.

<u>Location</u>	<u>Material</u>
NEMA 1 or 12	Galvanized rigid steel (GRS)
NEMA 3R	PVC-Coated Steel (GRS-PVC)
NEMA 4	PVC-Coated Steel (GRS-PVC)
NEMA4X	PVC-Coated Steel (GRS-PVC)
Class 1 Div 1 or 2 hazardous	PVC-Coated Steel (GRS-PVC)

4. Conduit stubs and transitions:

- a. Conduit transitions shall be GRS-PVC for 6" on either side of the transition point (minimum) or as shown in drawing details. Conduit transition is defined as conduit sections emerging from or through concrete or earth or from below to above grade or through walls or vaults, non-exposed to exposed.
- b. Beneath pad mounted electrical equipment, where not exposed, shall be installed or trimmed to 2" or less above slab and have bushing or end bell installed. Overall height of conduit entering into the base of equipment shall be enough for bushings/bells to be installed but be high enough for conduit tags to be installed.
- c. Uniform in height for each panel or section. Conduits end bushings/bells shall not vary in height above slab more than ½" from lowest to highest.
- d. Conduits shall be spaced apart such that bushings and end bells may be installed without interfering with the adjacent conduits.
- e. Transitions to PVC shall include PVC coated locknuts to shield exposed steel pipe threads.
- f. Through walls – shall protrude approximately 2" and include end bell or bushing. Pack space around conduit with non-shrink grout if the thru-hole was core drilled.
- g. Conduits for future use shall be capped with coupling and plug. Identify each end with conduit labels.
- h. Existing conduits that are no longer able to be used due to removal of a section or shown demolished and that protrude above graded shall be cut flush and filled with grout.

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5. Conduit Tags

- a. All conduits listed in the "Conduit and Wire Routing Schedule" shall have conduit tags at both ends of each conduit run and within 3 feet of any pull box, panel board, switchgear or control panel with tag number from schedule identified. This shall include ends within underground pull boxes.
- b. All conduits shall have temporary tags during construction. Temporary tags may be made from duct tape with hand written ink marking or suitable equivalent. Temporary tags shall be removed by Contractor at time of installation of permanent tags.
- c. Conduit labels shall be stainless steel tape with pressure stamped letters and numbers. Stamped text shall not be less than ¼ inch high. Conduit labels shall be a minimum of 2 inches long and 1/2 inch wide and shall be attached with #18 304 stainless steel wire

6. Supports

- a. Cross section of a single channel shall be 1-5/8" x 1-5/8" and cross-section of a double channel shall be 1-5/8" x 3-1/4". The channel wall thickness shall be 12 gauge as applicable.
- b. One-Hole clamps shall be intended for pipe mounting on support channels and equipped with clamp-backs. The clamps shall be Efcor, Thomas and Betts, Appleton or equal
- c. Spacers, provided to support underground conduits in concrete encasements, shall be plastic. The spacers shall be Carlon, Johns-Manville, Underground Products or equal
- d. Anchors shall be expansion type for securing equipment to concrete foundations, floors and walls. Anchors shall have length identification mark on the exposed end of the bolt. Provide Hilti Kwik Bolt 3, or equal.
- e. Stanchions shall be provided as needed to mount equipment and electrical components. Stanchions shall be shop fabricated from welded 4" c-channel, 12" x 12" x ¼" steel base plate, coated with a rust inhibiting primer and top coat of gray polyurethane gloss paint. Attach equipment to the stanchion direct or on a ¼" aluminum sheet sized for the equipment supported.
- f. Conduit Hangers shall be trapeze construction, with double channel, 3/8-inch rods and nuts. Suspend from suitable structural support.
- g. Support material and finish shall be per the following table unless otherwise noted in the drawings. Brackets, fittings and

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hardware shall be of the same material and finish.

<u>Location</u>	<u>Material</u>
Indoors NEMA 12	Galvanized steel
Outdoors NEMA 3R	Galvanized steel
Outdoors NEMA 4	Stainless Steel type 316
Corrosive areas NEMA4X	PVC bonded, 40 mil, factory applied

- h. Equipment mounting racks shall be designed by installer for rigid equipment and conduit mounting. Racks shall be bolted or welded construction and sized for equipment or as shown on the drawings.
- i. Strut channels shall be used for mounting equipment to walls and for supporting conduit runs. Double strut channel type shall be used for fabricating equipment mounting racks as required and/or as detailed on the drawings. Add additional supports to rigid mounting locations as needed to prevent wobbling and to meet seismic requirements. All field cut surfaces of the strut channels shall be deburred and coated to prevent rust.

B. GALVANIZED RIGID STEEL CONDUIT - (GRS)

- 1. Manufactured from high-strength steel and hot dipped zinc galvanized inside and out. Conduit and fittings shall meet UL 514B, UL 6, and conform to NEMA RN 2. Conduit shall be capable of being used as an equipment grounding conductor per NEC 250.
- 2. Provide galvanized rigid steel factory sweeps and elbows for 90 degree transitions.
- 3. Cast fittings and device boxes shall be malleable iron or aluminum. Appleton type FS/FD or equal.
- 4. In hazardous locations, fittings shall meet and be listed UL 886.
- 5. All fittings, hubs, couplings, pulling elbows and connectors shall be threaded-type. Set-screw type and compression-type are not acceptable. All thread conduit is not allowed over 1/2" exposed length. Cover plates shall be cast iron with sealing gasket in NEMA 3R locations.
- 6. Conduits entering enclosures shall be fitted with insulated grounding bushing; O-Z "HBLG", Appleton "GIB", or approved equal. All grounding bushings shall be tied to the grounding system with properly sized bonding conductors per the NEC code.
- 7. Combination expansion-deflection fittings installed exposed shall be Type XD as manufactured by Crouse-Hinds Co.; Type DX as manufactured by O.Z. Gedney Co.; Type DF as manufactured by Appleton Electric Co., or equal

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C. GALVANIZED RIGID STEEL CONDUIT - PVC COATED (GRS-PVC)

1. Galvanized Rigid Steel conduit with a 40-mil thick polyvinylchloride exterior coating and a 2-mil urethane interior coating meeting NEMA RN-1, UL-6 and ETL PVC-001. The bond of the PVC to the zinc coated pipe must be stronger than the tensile strength of the PVC.
2. Provide PVC coated galvanized rigid steel factory sweeps and elbows for 90 degree transitions.
3. Cast fittings and device boxes shall be malleable iron or aluminum with a 40-mil thick PVC coating meeting the same
4. In hazardous locations, fittings shall meet and be listed UL 886.
5. Provide PVC coated threaded-type fittings, hubs, pulling elbows, couplings, and connectors; set-screw type and compression-type are not acceptable. Form 8 conduit fittings, ½" through 4", must have a tongue-in-groove gasket to effectively seal out the corrosive elements. Covers shall be supplied with plastic encapsulated stainless steel cover screws. Form 8 fittings shall be UL and type 4X and IP69 listed.
6. A "PVC Coated Sealing Locknut" shall be used on all exposed male threads transitioning into female NPT threads which do not have sealing sleeves, including transitions from PVC couplings/female adapters to PVC Coated GRC elbows in direct burial applications. "PVC Coated Sealing Locknuts" are not to be used in place of a myers hub
7. A PVC sleeve extending one pipe diameter or two inches, whichever is less, shall be formed at every female fitting opening except unions. The inside sleeve diameter shall be matched to the outside diameter of the conduit.
8. All junction and metal pull boxes shall be galvanized with exterior surfaces PVC coated to 40 mils thickness.
9. Unistrut, strut clamps, pipe straps, and clamp back spacers, shall have 40 mil thick PVC coating. All mounting anchors shall be stainless steel.
10. Conduits entering enclosures shall be fitted with insulated grounding bushing. All grounding bushings shall be tied to the grounding system with properly sized bonding conductors per the NEC code.
11. Installers of PVC Coated Conduit must be certified by the manufacturer and be able to present a valid, unexpired certified installer card.
12. GRS-PVC conduit to be Robroy Plasti-bond, Perma-Cote, KorKap, T&B OCAL or equal.

D. PVC CONDUIT, SCHEDULE 40 or 80 (PVC-40, PVC-80)

1. Shall be high impact schedule 40 or 80 polyvinylchloride suitable for use underground, direct burial and for use with 90 C wires, and shall

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conform to UL 651. Shall be UL listed and labeled for "direct" burial.

2. A copper bonding conductor shall be pulled in each raceway and bonded to equipment at each end with approved lugs.
3. Each underground run shall be placed in a trench with a five (5) inch sand bed evenly compacted on all sides, top and bottom unless otherwise noted.
4. Elbows, and risers shall be per exposed conduit transition detail. PVC conduit is not allowed above ground.
5. PVC fittings shall have solvent-weld-type conduit connections. Fittings and device boxes shall be PVC with factory fabricated conduit connections. Provide Carlon or equal.
6. Conduits entering enclosures shall be fitted with a glued male adapter, lock ring and bushing to prevent wire chafing. Conduits entering panels through concrete to an open bottom or entering a pull box shall have a glued end bell fitting.
7. PVC conduit shall be stored on a flat surface and shielded from the sun.

E. LIQUID TIGHT FLEXIBLE METAL CONDUIT (up to 2") - (FLEX)

1. Liquid Tight Flexible Metal conduit shall be highly flexible, moisture and oil-proof with black thermoplastic rubber cover that is extruded over a galvanized flexible steel conduit.
2. Liquid tight Flexible Metallic Conduit shall be sunlight, oil, and flame resistant and be manufactured for extreme temperature environments (-75 deg F to +302 deg F). Conduit shall be approved for the installation of electrical conductors in indoor and outdoor applications.
3. Liquid tight Flexible Nonmetallic Conduit shall be listed to UL standard UL 360.
4. Liquid tight flexible metallic conduit shall be installed in accordance with Article 351, Part B of the National Electrical Code (NEC) and other applicable sections of the NEC and/or local electrical codes.
5. Liquid tight Fittings shall be listed for the use with Liquid tight Flexible Metallic Conduit and conform to UL514B.
 - a. Outdoors when extension of GRS-PVC: PVC coated galvanized steel with insulated bushings.
 - b. Outdoors when extension of GRS: Galvanized steel with insulated bushings
 - c. Indoors: Galvanized steel with insulated bushings.

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6. Flexible Metallic Conduit shall be Anaconda HCX or equal.

F. LIQUID TIGHT FLEXIBLE METAL CONDUIT (above 2-1/2") - (FLEX)

1. Liquid Tight Flexible Metal conduit shall be moisture and oil-proof with PVC jacket extruded over a galvanized flexible steel conduit.
2. Liquid tight Flexible Metallic Conduit shall be sunlight, oil, and flame resistant and approved for the installation of electrical conductors in indoor and outdoor applications.
3. Liquid tight Flexible Nonmetallic Conduit shall be listed to UL standard UL 360.
4. Liquid tight flexible metallic conduit shall be installed in accordance with Article 351, Part B of the National Electrical Code (NEC) and other applicable sections of the NEC and/or local electrical codes.
5. Liquid tight Fittings shall be listed for the use with Liquid tight Flexible Metallic Conduit and conform to UL514B.
 - a. Outdoors when extension of GRS-PVC: PVC coated galvanized steel with insulated bushings.
 - b. Outdoors when extension of GRS: Galvanized steel with insulated bushings.
 - c. Indoors or outdoors when extension of stainless steel: 316 stainless steel with sealing ring and insulated bushing.
 - d. Indoors: Galvanized steel with insulated bushings.
6. Flexible Metallic Conduit shall be Amer-Tite type GP or equal.

2.02 DEVICE BOXES

A. BOXES

1. Device boxes shall be of zinc-galvanized malleable iron or cast aluminum with shape and size best suited for the particular application, rated for the location installed, and shall be supported directly to structure by means of screws, anchors, or bolts.
2. Box dimensions shall be in accordance with size, quantity of conductors, and conduit clearances per NEC articles 314 requirements.
3. Boxes exposed to the weather or in moist locations shall be weatherproof (WP) by means of gasketing under a weatherproof cover.
4. Boxes connected to GRS-PVC conduit runs shall be PVC coated with 40 mil coating.

B. DEVICE PLATES and COVERS

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1. Indoor general purpose device plates and covers shall be stainless steel. Plates or covers shall be attached with stainless steel screws. An engraved plastic label denoting circuit breaker number and panelboard name shall be affixed to each cover with #4 stainless steel screws.
2. Weatherproof switch, outlet, and receptacle boxes shall be fitted with gasketed covers rated for wet locations. Each access cover shall have a padlockable cover to maintain security and weatherproof integrity even when a plug is connected to the receptacle. Screws and hinge springs shall be stainless steel. Weatherproof access covers shall be Leviton 5977-CL, Cooper 4966, or equal.

2.03 PULL BOXES

A. JUNCTION BOXES

1. Where required for best installation or where specifically called out in the drawings, junction boxes shall have JIC type construction with hinged door, NEMA 4X rating, manufactured of type 304 stainless steel or as otherwise shown. Door shall be fastened with clamps and stainless steel screws. No devices, screws, rivets, or bolts shall protrude through the exterior surface unless specifically shown on the drawings. Boxes shall be Hoffman, Circle AW, or equal.

B. UNDERGROUND BOXES

1. Underground pull boxes shall be prefabricated "Christy Box" size and type as noted in the drawings or equal. Size shall be as shown or dimensioned on the Drawings. Provide larger boxes as needed to meet code or as determined in field to allow for adequate pull area at Contractor discretion. Extension sections shall be provided as necessary to reach the depth of underground conduits with maximum depth of 48". All boxes shall have galvanized steel hold down bolts and hardware. Boxes shall be H/20 loading rated and have traffic rated covers. Steel covers or lids shall be galvanized and grounded with bonding jumper to the local grounding circuit per NEC. Pull box covers shall be labeled electrical, signal, utility, and telephone, whichever applies. Pull boxes shall be Christy Concrete Products, Brooks or equal.

C. UNDERGROUND VAULTS:

1. BOX: Underground vaults shall be prefabricated 6" thick reinforced concrete (4000PSI), H/20 load rating, with the interior size (minimum) as shown on the Drawings.
 - a. Provide larger pull boxes when necessary to allow for adequate pull area or to accommodate the number of conduits entering box.
 - b. Vaults shall include 2" thinwall section knock out area for conduit entry on 4 sides. Provide hole in bottom corner for ground rod.

- c. Extension sections shall be provided as necessary to reach the depth of underground conduits.
 - d. Provide sloped bottom with 4" drain hole knockout in bottom center of vault.
- 2. LID: Provide hinged, torsion spring assist, traffic rated H/20, lid cover assemblies. Provide single leaf for 3 by 3 feet pull boxes. Provide double leaf for vaults with openings larger than 3 by 3 feet.
- 3. GROUND BUS: Provide a ¼" x 12" copper ground bus in each vault. Provide 8 - 3/8" diameter holes for multiple #4/0 terminal compression or crimp connectors. Connect ground conductors from duct banks to the ground bus. Connect ground terminals to ground bus using bronze or stainless steel hardware.
- 4. CABLE SUPPORTS: Provide heavy-duty, nonmetallic cable racks for support of wire and cable in vaults. Racks shall be UL listed glass-reinforced nylon consisting of slotted wall brackets supporting cable support arms. Arms shall be designed to support a 400-pound load, minimum. Arms shall be adjustable by moving up and down the bracket. Each support bracket shall extend all the way from the bottom of the handhole to the top of the handhole. Provide 1/2-inch stainless steel bolts, washers, and anchors to secure racks to handhole wall. Cable racks shall be Underground Devices Incorporated type RA arms with CR36 support brackets; Uni-strut Power-Rack F20N-STA33 Stanchions with F20N-ARM14 Arms; or equal. Provide racks to support conductors on 18-inch centers.
- 5. Underground vaults shall be Oldcastle Precast, Brooks, or equal.

D. PULL BOX AND VAULT IDENTIFICATION

- 1. Engrave or bead weld box covers with minimum thickness of ¼" x 1" lettering with pullbox name (i.e. PBX-XXX) and purpose (electrical, signal, fiber, telephone, etc.). Provide an additional identifier "high voltage" for boxes with 600 volts or higher.
- 2. Utility pull boxes shall be labeled per Utility Company standards.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in specified in Electrical Specifications [Electrical General, Workmanship].

3.02 INSTALLATION

- A. System:
 - 1. Install all products per Electrical Specifications [Electrical General,

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Installation].

B. Rigid Conduits and Ducts:

1. Exposed conduits shall be neatly arranged with runs perpendicular or level and parallel to walls. Bends shall be concentric.
2. Except as expressly indicated or approved, all conduits shall be surface mount on block walls, concealed behind gypsum walls, and buried to required depth below floor slabs.
3. Pipe threads shall be treated with conductive thread compound.
4. Installation of the GRS-PVC conduits must be in accordance with the manufacturer's installation procedures using recommended tools.
 - a. Apply touch up compound at each fitting sealing sleeve edge to improve watertight seal.
 - b. To ensure compliance, the installer(s) must be "manufacturer certified" before installation can proceed.
 - c. Certification available by contacting manufacturer's representative and attending a brief instructional course. Valid and unexpired certification card shall be available for review per installer.
5. Repair GRS-PVC coating utilizing a touch-up compound as provided by the manufacturer of the conduit of the same material as the coating. Overlap beyond the damaged area to cover the PVC coating. Contact from touchup compound to PVC is required to maintain integrity. The entire conduit shall be replaced if the repair exceeds 1" combined length.
6. A maximum of three equivalent 90 degree elbows are allowed in any continuous run. Install pull boxes where required to limit bends in conduit runs to not more than 270 degrees or where pulling tension would exceed the maximum allowable for the cable.
7. Route all above grade conduits parallel or perpendicular to structure lines and/or piping. Conduits installed above grade shall be braced in place with stanchions. Expansion joints shall be installed every 100 feet. Bends shall be concentric.
 - a. Combination expansion-deflection fittings installed exposed shall be Type XD as manufactured by Crouse-Hinds Co.; Type DX as manufactured by O.Z. Gedney Co.; Type DF as manufactured by Appleton Electric Co., or equal
8. Care shall be exercised to avoid interference with the work of other trades. This work shall be planned and coordinated with the other trades to prevent such interference. Process Pipe, mechanical and HVAC shall have precedence over conduits for routing and space

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requirements.

9. Seal each bottom entrance conduit into the MCC and other electrical enclosures with plugging compound sealant to prevent the entrance of gasses, insects and rodents. Plugging compound sealant shall be Gardner Bender Duct Seal or equal.
10. Exposed conduit stubs for future use shall be capped with coupling and plugged. Drill hole in plug for pull rope as necessary.
11. Explosion proof seal-off fittings shall be provided on all conduits that enter or leave hazardous areas per requirements of the National Electrical Code, Chapter 5 and UL 886. The seal-off fitting shall prevent hazardous gases and/or flames from passing from one type area to another through the conduit system. Ceramic or other non-asbestos fiber material and sealing compound shall be placed in the fitting to complete the seal.
12. Hazardous location conduit outlet boxes shall be used in hazardous locations for change in direction, access to conductors and as pull and splice boxes.
13. All spare conduits shall have 1/8" nylon pull ropes installed.

C. Flexible Conduit and Cords

1. Final connections to vibrating equipment such as motors, heaters and fans shall be made with liquid tight flexible conduit.
2. Flexible conduit lengths shall not be greater than 36 inches for sizes up to 2 ½" and 48 inches for 3" and larger conduit.
3. Flexible conduit shall include a ground conductor for equipment bonding in circuits over 30 VDC or as shown in the conduit schedule.
4. Flexible conduit shall only be installed in exposed or accessible locations.
5. Where equipment is cord connected, submersible rated, and conduit connections are not possible without modification, devices and equipment may be free-air cord connected in lieu of flexible conduit. Connection to adjacent rigid conduit shall be through liquid-tight cord connector fitting specifically designed for the purpose and sized appropriately for the cord. Cord connectors shall be rated similar to the adjacent conduit they are connected to: Stainless steel, galvanized or plastic.

D. Excavation and Back Filling:

1. Trenches for conduit below floor slabs and other underground electrical conduit shall be excavated to the required depths per utility requirements or specific detail. Conduits under floor slabs shall have minimum trench depth to contain bends without any portion of the

radius visible at finished grade.

2. Underground conduits outside of structures, excluding utility conduits, shall have a minimum cover of 24 inches except under roadways where minimum cover shall be 30 inches or as otherwise shown in the Contract Drawings. Back filling shall be done only after conduits have been inspected. Excavation and back fill of conduits shall conform to the requirements of other applicable Specifications sections unless modified on plans, and to other entities (Utilities, etc.) as required.
3. Install spacers to support underground conduits. Horizontal and vertical separation shall be maintained by plastic spacers set every four feet. Spacers shall be Carlon Snap-Loc or equal.
4. At all times during the installation of the electrical system, the Contractor shall provide barricades, fences, guard rails, etc., to safeguard all personnel, including small children, from excavated trenches.

E. Underground pullboxes:

1. Pullboxes shall be located in areas that will experience the least traffic loading and in the general vicinity as shown in the contract drawings. Boxes in pavement shall be set at final grade and boxes in planter areas shall be set 1" above final grade. Boxes shall not be buried by landscape material.
2. Steel pull box lids shall be grounded per NEC 250.4(A)(5) and 314.4.
3. Boxes shall be set on compacted base and base rock to minimize settling of the box over time. If the box is located in a paved traffic area, a 6" x 6" concrete ring shall be poured around the box below the pavement.

F. Device Mounting Heights:

1. Mounting heights of fixtures and devices shall be as follows unless otherwise indicated or when height has to be adjusted to be over or under counter tops.

Wall switches	=>	48 inches
Convenience outlets	=>	18 inches
Telephone outlets	=>	18 inches
Bracket fixtures	=>	7 feet 6 inches

G. Cutting, Coring, Patching and Repairing:

1. The Contractor shall do all cutting and patching required to install his work. Any cutting which may impair the structure will require prior approval. Cutting and patching shall be done only by skilled labor of the respective trades. Where it is becomes necessary to cut into existing work for the purpose of making electrical installations, locate existing post tension cables, rebar and electrical services prior to core

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drilling using ground penetrating radar or similar technologies. All surfaces shall be restored to their original condition after cutting and patching.

3.03 FIELD ASSISTANCE

- A. General: Provide all equipment and supplies necessary to perform all testing. The Owner Representative shall have the option to witness and participate in the on-site tests performed by the installer.
- B. Per Electrical Specifications [Factory and Field Testing].

3.04 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

END OF SECTION

SECTION 16120

LOW VOLTAGE WIRE & DATA CABLE

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. Labor, materials, equipment, tools, safety gear, test equipment, incidentals, services, and transportation for a complete electro-mechanical installation as shown on the Drawings, included in these Specifications, or as can be reasonably implied from project descriptions.
- B. The scope of work includes:
 - 1. Furnish and install wire, splices, lugs, or other miscellaneous devices as defined in this specification.
 - 2. Testing of conductors and completed wired systems.
 - 3. Installations shall be designed and installed with components meeting the NEMA area designation.
- C. Work includes that specified in Electrical Specifications [Electrical General].

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Conduit and Boxes]
- C. Electrical Specifications [Grounding]
- D. Project Drawings

1.03 QUALIFICATIONS

- A. Material furnished under this specification shall be installed by qualified installers meeting requirements specified in Electrical Specifications [Electrical General, Qualifications].

1.04 SUBMITTALS AND DRAWINGS

- A. Provide submittals and drawings as specified in Electrical Specifications [Electrical General, Submittal Requirements].

PART 2: PRODUCTS

2.01 WIRING AND ELECTRICAL DEVICES

A. GENERAL

1. General

- a. Provide wiring and electrical devices specified herein and install field and internal panel wiring as shown on the Contract Drawings.
- b. This section applies to all wires or conductors used internal (non-field) to electrical equipment or external for field wiring.
- c. Field wire quantity and size shall be per "Conduit and Wire Routing Schedule."

2. Analog Signals

- a. Analog signal transmission between electric or electronic instruments shall be 4-20 milliamperes and shall operate at 24 volts DC unless otherwise specified. Milliampere signals shall be current regulated and shall not be affected by changes in load resistance within the unit's rating.
- b. Provide powered current isolators wherever the loops' load resistance exceeds the originating current signal transmitter's rating. Associated shunt resistors shall be located on rail-mounted terminal blocks. Exposed resistor leads shall be insulated with heat-shrink tubing.

B. LOW VOLTAGE WIRE AND CABLE (through 600V except instrument signals)

1. General: Low voltage conductors shall be used for power, control, lighting and miscellaneous circuits. This Section applies to all wires or conductors used internal for all electrical equipment or external for field wiring. Wire shall be new, plainly marked with UL label, gauge, voltage, type of insulation, and manufacturer's name.
 - a. Conductors shall be copper with a minimum of 98% conductivity.
 - b. Class C stranding. Solid conductors may be used for lighting and receptacle circuits.
 - c. Wire shall be rated 600 volt (min).
 - d. Size all conductors per NEC minimum or as shown on the drawings.
 - 1) Minimum #12 AWG for wires used in power transmission

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circuits or as defined on the drawings.

- 2) Minimum #14 AWG for wires used in signal transmission circuits or as defined on the drawings.
2. Wire colors and sizes shall not change within the circuit.
3. Wire shall be properly fused or breaker protected at or below the maximum amperage rating allowed by the NEC.
4. Control and Power Wiring:
 - a. Field wire in conduit:
 - 1) Type XHHW-2, XLPE insulation, rated 90 °C in wet or dry locations, oil resistant.
 - i Use for power circuits carrying voltages higher than 200 volts phase to ground.
 - 2) Type THHN / THWN, PVC with nylon jacket insulation, rated 90 °C in dry locations and 75 °C in wet locations, oil resistant, UL83.
 - i Use for power circuits with voltages below 200 volts phase to ground, or control circuits.
 - 3) Minimum #12 AWG for wires used in power transmission circuits or as defined on the drawings.
 - i Minimum #14 AWG for wires used to power instrumentation.
 - 4) Minimum #14 AWG for wires used in signal transmission circuits or as defined on the drawings.
 - i Minimum #16 AWG for wires used to power instrumentation discrete signals.
 - b. Power cord
 - 1) Flexible wire cord shall be type SOW, SOOW, or G and be provided in 2, 3, or 4 conductor plus ground as required for connected load.
 - 2) EPR insulation, 90 deg C rating, oil and abrasion resistant, overall jacket plus individual conductor jackets. 600V rated
 - 3) Conductors shall be stranded copper.
 - 4) Cord shall be installed with cord grips on each end where it enters termination enclosures.

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c. VFD Motor Supply Cable

- 1) VFD motor supply cable shall be shielded and designed for use with AC variable frequency drives. The cable shall be used to interconnect a variable frequency drive to the controlled motor.
- 2) The VFD cable insulation shall disperse voltage spikes, harmonics, and power distortions associated with variable frequency drives. Cable shall be plainly marked with UL label, gauge, voltage, type of insulation, and manufacturer's name.
- 3) Conduits requiring VFD supply cable shall be specifically listed in the conduit schedule in "NOTES" column designation defined as VFD CABLE.
- 4) Power conductor size shall be as listed in the conduit schedule. Length shall be as required to extend from VFD to motor connection terminals. Conductor stranding shall be fine wire, three black conductors with white numbers and one green/yellow ground. Conductor stranding shall be class C or finer.
- 5) Insulation for conductors shall be rated for 1000 volts (min). Insulation shall be oil and UV resistant rated - 25°C to 90°C.
- 6) For Cable sizes 12 AWG to 2 AWG the cable construction shall be tinned copper with XLPE insulation under dual shielding of foil tape and copper braid construction, and outer PVC jacket. The VFD motor supply cable shall be Olflex/Lapp USA Wire and Cable Inc. OLFLEX Slim series, Belden 295xx or equal.
- 7) For cable sizes above 2AWG to 500MCM the cable construction shall utilize 3 symmetrical grounds next to 3 power conductors with XLPE insulation and foil and braid shield. The VFD motor supply cable shall be Olflex/Lapp USA Wire and Cable Inc. OLFLEX VFD Symmetrical series or equal.

d. Nonfield control panel or factory installed equipment internal wiring:

- 1) Insulation - Type MTW, NFPA standard 79, UL 1063 with tinned copper.
- 2) Minimum #16 AWG for wires used for individual conductor circuits 100 volts and above.
- 3) Minimum #18 AWG for wires used for individual conductor circuits below 100 volts.

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5. Instrument wiring:

- a. Field: Instrument cables shall have 600V tray cable rated insulation and 100% individual shielded twisted pair #16 conductors with drain wire. Single twisted shielded pair (TSPR) cables shall be Belden 9342, or approved equal. Three wire twisted shielded cables (#18 TS3W) shall be Belden 1119A or equal.
- b. Non-Field: Instrument cables shall have 300V rated insulation and 100% individual shielded twisted pair #18 conductors with drain wire. Single twisted shielded pair (TSPR.) cables shall be Belden 8760, or approved equal. Three wire shielded cable shall be Belden 8770 or equal.
- c. Field multi-pair instrument cable as required per conduit schedule shall have 300V rated insulation and 100% individual shielded twisted pair #18 conductors with drain wire. Multiple twisted shielded pair (T.S.PR.) cables shall be Belden 9773 thru 9777, or equal.
- d. Multi-pair cable is not allowed (unless specifically called out in conduit schedule or on plans) for use in field or non-field applications. One T.S.PR cable is required for each signal.

6. Manufacturer Supplied Cables

- a. Cables and wiring for special systems provided by the manufacturer with the equipment shall be installed per the manufacturer's recommendations.

7. Data Cable

- a. Data network category 6 cable (indoor) shall consist of 4 pair unshielded twisted pair #24 awg solid copper conductors. The cable shall be rated by IEEE for service intended – plenum and dry.
 - 1) Cable: IEEE Category 6, various manufacturers.
 - 2) Connectors: Standard RJ-45 with boot.
- b. Data network cable (outdoor) shall consist of 4 pair foil and braid shielded twisted pair #24 awg solid copper conductors with anti-crosstalk divider, and drain wire. Rated Level 2 Category 5e Outdoor Carrier by IEEE for use in plenum, conduit, wet or dry.
 - 1) Cable: IEEE Category 5e, Ubiquiti Tough Carrier, Belden, or equal
 - 2) Connectors: Grounded RJ-45 with drain wire crimp.

8. Fiber Optic Cable

- a. Each fiber continuous with no factory splices.
- b. Single-mode, graded index, solid glass wave guides with the following characteristics:
 - 1) Maximum attenuation (1310 nm) 0.4 dB/Km.
 - 2) Maximum attenuation (1550 nm) 0.3 dB/Km.
- c. FDDI compatible and meets requirements of ANSI X3T9.5 for FDDI cable.
- d. Attenuation tested, all fibers, with results provided on reel. Fiber attenuation, connector and splice losses shall not exceed 20% loss deviation between strands.
- e. All splices shall be fusion splices, mechanical splices are not allowed.
- f. Connector type shall match the installed equipment or patch panels. Single mode fibers shall be LC ceramic. Connectors shall be attached using heat cured epoxy. Crimp-on or UV-cured connectors are not acceptable.
- g. All fiber cables shall be terminated in an approved fiber patch panel, "wic", or other approved termination enclosure. The fiber run shall then be connected to electronic equipment using fiber patch cords.
- h. Spider fan out kit shall be used for field termination and pull out protection of fiber optic cables. The spider fan out shall consist to 24 buffer tubes for individual break out and connector installation. Provide Corning SFK, or equal.
- i. All strands of new fiber cables shall be terminated and tested without regard to designated use. Spare strands shall be terminated and tested equally with strands designated for active use on a project.
- j. When fiber optic cable is delivered to a project site, a test should be performed to verify the condition of the cable prior to installation. The cable and reel shall be physically inspected for damage and all the fibers shall be tested with an Optical Time Domain Reflectometer (OTDR) for fiber integrity. The results of these tests shall be submitted for review and approval.
- k. Smaller fiber runs, such as runs within the same cabinet, short runs in a building, etc. may not require pre-installation testing of cable. Waiver of this testing requirement shall not be done without approval
- l. After the fiber optic cable has been pulled, but before breakout and termination, all the fibers shall be tested with an OTDR for fiber integrity. Test results shall be submitted for review and approval.

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- m. When outdoor splices are performed at one location, all splices shall be tested with OTDR at the optimal wavelengths (1310 and 1550 for single-mode), in both directions. These tests shall be performed prior to enclosing and sealing the splices. These tests be witnessed by the Designer, and/or an Owner Representative. The splices shall be tested for integrity as well as attenuation. Individual fusion splice losses shall not exceed 0.1 dB. The test results shall be recorded, and submitted for approval.
 - n. When all fiber links have been completely installed, each link shall be tested with an OTDR and an Optical Loss Test Set with appropriate launch cable. All tests shall be conducted in the presence of the Designer and/or an Owner Representative. OTDR traces shall be from both directions on each fiber at the two optimal wavelengths, 1310 and 1550 for single mode fibers. Optical loss testing shall be done with handheld test sets in one direction at the two optimal wavelengths for the appropriate fiber type. Final testing shall include patch cords.
 - o. During any fiber testing, each tested fiber should exhibit similar results to the other fibers within the same cable. For example, each fiber within a cable may meet the minimum loss standards, but may vary greatly throughout the acceptable range. This could indicate splicing issues, or that minor physical cable damage had occurred during installation. Loss deviations of 20% or greater are not acceptable and will cause a test to fail, even though all fiber results were within the acceptable loss range.
 - p. Each results of each test perform shall be recorded and submitted to the Design Engineer and Owner. Test forms shall be produced, submitted, and approved prior to commencement of any testing. These forms should include the test type, the test location, test date, wavelength, index of refraction, origination/destination cable designation, fiber type, fiber number, fiber color, and the result of the value of the tested parameter. Hardcopy OTDR traces shall be attached to the completed test forms. Electronic versions of OTDR traces shall be submitted.
9. Temporary motor or panel hook-up
- a. Temporary cable may be cord without conduit or PVC conduit with wiring. In either case, the cabling must be protected from damage during construction. Sections may be located out of harms way, buried, or sleeved in steel conduit as needed.
 - b. Power Circuits: Provide 2, 3, or 4 conductor plus ground power supply cable(s) for temporary pump connections or electrical power circuits. Cables shall be sized for breaker rating amperage, (minimum).

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- c. Provide multi-conductor (TC) cables for digital control circuits. Provide quantity of conductors as needed.
- d. Provide instrument wiring for 4-20 ma instrumentation.
- e. Voltage drop in power circuits shall not exceed 15% during motor start and 5% during operation.

C. COLOR CODE

- 1. All wires #8 and below shall have wire insulation the color specified. Wires #6 and larger may be black with color electrical tape at termination points.
- 2. No other colors shall be used without prior approval.
- 3. Color code - color code of all wire shall conform with the following table:

WIRES COLOR CODE TABLE

Description	Phase / Code Letter	Field wire or tape color	Non-Field Wire Color
480V, 3 Ph	A	Brown	Brown
	B	Orange	Orange
	C	Yellow	Yellow
	Neutral	Gray	Gray
240V or 208V, 3 Ph	A	Black	-
	B	Red (Orange if high leg)	-
	C	Blue	-
240 / 120 V, 1 Ph	L1	Black	Black
	L2	Black	Black
24V Positive	24+	Red	Red
24V Negative	24-	Gray	Gray
AC Control		Violet	Violet
DC Control Pos.		Red	Red
DC Control Neg.		Gray	Gray
Neutral	N	White	White
Ground	G	Green	Green
Shielded Pair	+	Black	Black
	-	Clear	Clear

2.02 WIRE MARKING

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- A. All panel, enclosure and field wiring shall have wire labels on both ends of each wire. Labeling shall be neatly installed for visibility and shall be clearly legible. Each conductor of instrument shielded signal wiring shall be labeled. Wire labels shall be machine printed with on white heat shrinkable tubing. Each label shall fit a minimum 23 characters, 3/16" in height before shrink. Tubing shall be oversized for the wire and shrunk into place using an electric heat gun. The "shrunk" label shall have just enough give to allow the label to be rotated. Hand lettered wire labels are not acceptable and shall be replaced at the Contractor's expense. Provide Brady "PermaSleeve" or equal.
1. **Source / Destination Wire Identification** - all wires, field and interior to equipment, shall be identified with wire labels.
- a. Wire labels shall be made up using "origination/destination" style numbering system. Consequently, each wire will have a unique set of wire labels that have their origin/destination numbers inverted on each end of wire.
- b. Wire labels shall be exactly per interconnection submittal and/or control panel drawings -- abbreviations determined in the field are not allowed. Abbreviations may be used in the wire label as submitted and approved in the interconnection drawings submittal.
- c. Wire labels shall provide a complete description of the origination and destination panel/device and terminal number.
- d. Wire labels may be omitted on "neutral jumpers" less than 8" in length.
- e. Wire labels for lighting and receptacle circuits shall consist of the panel board and circuit number and a unique node number. (I.E. LP#3-A, LP#3-B, LP#3-N) Wire labels for lighting and receptacle circuits are not origination/destination.

2.03 ELECTRICAL TAPE / SHRINKABLE INSULATORS

- A. Vinyl tape shall be 7 mil, 600 volt rated, flame retardant, hot and cold weather resistant conforming to UL510. Provide 3M Scotch Super 33+ vinyl tape or equal
1. Vinyl tape for color coding shall be 7 mil, 3/4" width, vinyl tape conforming to UL 510. Provide 3M Scotch 35 vinyl tape or equal.
- B. Rubber Tape: EPR rubber, 90 deg C continuous rated. Provide 3M 130C rubber tape or equal.
- C. Varnished Cambric Tape: Adhesive backed, 7 mil, bias cut cotton tape, coated with yellow insulating varnish. Provide 3M Scotch 2510 or equal.
- D. Shrinkable insulators shall be heat shrinkable, polyolefin thick wall sleeves, end caps and cable repair sleeves are designed for use in splicing, sealing and re-jacketing of direct bury secondary cables. The insulators shall comply with

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UL 486D and be rated up to 1000 Volts. They shall provide long-term reliable performance overhead, underground or submerged with mechanical and environmental protection. Shrinkable insulators shall be 3M ITCSN or 3M IMCSN per manufacturer instructions for the application or equal.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].
- B. Perform work to remedy non-compliant installations after inspection.
- C. Upon notification, stop work on any portion of the installation that is determined to be substandard or being installed by unqualified personnel.

3.02 FABRICATION AND INSTALLATION

- A. System:
 - 1. Install all products specified in Electrical Specifications [Electrical General, Installation].
 - 2. Panels shall be completely factory wired and tested before shipment.
 - 3. All spare PLC input / output points shall be wired to terminal blocks.
 - 4. A minimum of 20% spare unwired terminals shall be provided in each panel.
- B. Wiring Methods:
 - 1. Wiring Separation: Wires carrying 100 volts and above shall be physically separated from lower voltage wiring by using separate bundles or wire ways with sufficient distance to minimize the introduction of noise, crossing only at 90 degree angles.
 - 2. Harness: All wiring shall be neatly bundled and laced with plastic tie-wraps, anchored in place by screw attached retainer. Where space is available, wiring shall be run in slotted plastic wireways with dust covers. Wireways shall be sized such that the wire fill does not exceed 60%. Tie-wraps shall be T&B TY-RAP or equal.
 - 3. Retainers: Wireways, retainers, and other devices shall be screw mounted with round-head 316 stainless steel screws or mechanically mounted by push-in or snap-in attachments. Glue or sticky back attachment of any type or style shall not be used. Retainers shall be T&B TC series or equal.
 - 4. Hinge Loops: Where wiring crosses hinged surfaces, provide a "U" shaped hinge loop protected by clear nylon spiral wrap. The hinge loop shall be of sufficient length to permit opening and closing the door without stressing any of the terminations or connections. Spiral wrap shall be Graybar T25N or equal.

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5. Routing: Wires and cable shall be routed such as to maintain separation between 100 Volt or higher from 100 volt or lower wiring being run in the same duct or bundle. Wires and cables shall have sufficient length to allow slack and to avoid any strain or tension in the wire or cable.
 - a. Wires shall be routed in slotted plastic wireways with snap covers. Wires carrying 120 VAC shall be separated as much as possible from other wires and signal cables, and shall be routed only in ducts for 120 VAC. If the power wiring has to cross the signal wiring, the crossing shall be as close to a right angle as possible. Wireways for 24 VDC wiring shall be used for all other wires and cables. Routing of 120 VAC in combined wireways shall be minimized. Wires and cables shall be placed in the wireways in a straight, neat and organized fashion and shall not be kinked, tangled or twisted together. Additional wire ducting shall be provided for use by the electrical subcontractor for routing field wires to their landing points in the each electrical and instrumentation panel.
 - b. Provide 2" minimum separation between wireway and terminal blocks.
 - c. Wiring not routed in wireways shall be neatly bundled, treed, and laced with plastic ties.

C. Wire Terminations

1. Single wire and cable conductors shall be terminated according to the requirements of the terminal device as follows:
 - a. Crimp-on terminals: shall be UL listed, self-insulating sleeve type, with ring or rectangular type tongue, suitable for the size and material of the wire to be terminated, and for use with either solid or stranded conductors.
 - b. Terminal Blocks: Remove the last +/- 0.25 inches insulation from of the conductor and insert it under the pressure plate to full length of the bare portion of the conductor. Tighten the screw to close the pressure plate onto the conductor. No more than two conductors shall be installed in a single terminal. All strands of the conductor shall be captured under the pressure plate.
 - c. Screw-less terminals: wire shall be stripped back and inserted per the terminal manufacturer's instructions.
 - d. Motors with pigtail leads: Install unmounted power terminal blocks on the motor pigtails and the cable(s) to be connected. Terminals shall be non-insulated set screw type applied with an allen wrench. Only one wire allowed per terminal. Install plugs in unused terminal spaces.

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2. When stripping insulation from conductors, do not score or damage conductor.
3. The drain wire and stripped end of outer jacket of shielded cables shall be covered with heat shrink insulating tubing. The drain wire shall be covered along its full bare length between the cable jacket cover and the terminal lug and placed on end outer jacket to cover foil.
4. Condulets with wire nut connections shall be supplied for wire termination to devices with leads instead of terminals (i.e. solenoid valves, level probe, etc.).

D. Wire Splicing

1. No wires shall be spliced without prior approval.
2. Where splices are allowed or approved they shall conform to the following:
 - a. Wire splicing devices shall be sized according to manufacturer's recommendations.
 - b. Splices of #10 and smaller, including fixture taps, shall be made with nylon self-insulated twist on wire nuts; T & B "Piggys", Ideal "Wing-Nut" or equal.
 - c. Splices of #8 and larger shall be hex key screw, two way connectors, insulated with molded high-dielectric strength plastic; NSI Polaris IPL or IPLD Series terminal blocks or equal.
 - d. Non-Motor Splices #6 and smaller in underground pullboxes shall have wire-nut connections which are sealed with non-hardening silicone based sealant that protects the connection from moisture and corrosion. The wire nuts shall be factory filled with sealant and UL listed for waterproof connections. Provide Ideal Model 60 or equal.
 - e. Non-Motor Splices #4 and larger in underground pullboxes shall have double hex crimp barrel connections applied with adhesive/sealant filled heat shrinkable rubber insulation applied over the exposed connection. The cross-linked polyolefin shrink tube shall extend 4" on each side of the exposed connection minimum. Heat shrink tubing shall be 3M ITCSN or equal.
 - f. Motor lead Splices in underground pullboxes shall have terminal connectors on the motor leads and the cable to be connected. Terminals shall be non-insulated crimp-on type applied with a ratchet-type crimping tool. The terminals shall be bolted together with a nut, bolt and lock washer combination. The connection shall be wrapped with four (4) layers varnished cambric tape, six (6) layers of rubber tape and six (6) layers of vinyl electrical tape, each half lapped. Seal the connection with epoxy resin coating.

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E. Wire Installation

1. Exercise care in pulling wires and cables into conduit or wireways so as to avoid kinking, stressing the cables, or damaging the insulation. Use a UL listed pulling compound for lubrication within conduits as necessary. The raceway construction shall be complete and protected from weather before cable is pulled in. Swab conduits before installing cables and exercise care in pulling, to avoid damage to the insulation or conductors.
2. All wire and cables (with the exception of coaxial antenna cable) shall be installed within UL listed raceways or enclosures. Install all wires and cables in one continuous length unless splices are per contract drawings, required to connect equipment or submitted and favorably reviewed.
3. Bundle incoming wire and cables in panels. Zip-tie at intervals of 2" and neatly spread into trees and connect to their respective terminals. Allow sufficient slack in cables for alterations in terminal connections. Do not bundle, tape or tie wires within conduits.

3.03 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

END OF SECTION

SECTION 16210

ENGINE GENERATOR

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. These specifications describe the minimum requirements for a STANDBY duty three phase engine driven generator. The "Generator Data Sheet" at the end of this specification lists the minimum sizing for the generator and accessories. A larger generator shall be supplied when necessary to meet the requirements of this section. The Contractor shall complete this form with proposed generator values and include it with the generator submittal.
- B. The generator shall be provided as described in the following specification and as shown on the Contract drawings, herein designated as the design documents. The generator shall comply with all applicable sections of NFPA 30, 37, 70, 72 and 110, California Fire Code Articles 79 and 80 as well as State Statutes.
- C. The equipment furnished under these specifications shall meet the requirements of NEC Article 702, "Optional Standby Systems" and any other applicable articles of the NEC.
- D. The system shall meet the requirements of NFPA 704 Hazard Identification System Diamond indicating the hazards associated with the fuel being stored.
- E. The generator shall be delivered as a skid mounted unit, completely assembled to the extent possible and factory tested.
- F. Only new models in current production by a U.S. firm that meet the requirements of these specifications and which are cataloged by the manufacturer and for which manufacturer's published literature and printed specifications are currently available, will be considered. Special options may be included only when recommended by the manufacturer of the unit approved.
- G. All equipment/options are to be factory installed. If the equipment/options are not available factory installed, dealer installed equipment/accessories may be acceptable. The bidder is to specify those items which will be dealer installed in the submitted bid document.
- H. The manufacturer's local representative shall be an authorized distributor who maintains a stock of spare parts for the supplied generator and has a service facility with factory-trained service personnel. The manufacturer's local representative shall be located within a radius of 200 miles of the project.
- I. The Contractor shall perform complete startup, training and testing services for the generator per Electrical Specifications [Factory and Field Testing] and as detailed herein.
- J. Generator system shall be EPA Certified and meet all current Local, State and

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Federal air emissions requirements at time and location of installation.

- K. Generator system shall be coordinated and compliant with all current Local and State building and Fire Protection codes and requirements at time and location of installation. Furnish alarms, signage, fuel containment, shutdowns, and other devices and systems as required.
- L. The Contractor shall supply the generator, labor, testing and associated documentation as specified herein. This document describes the materials and intended operation, but does not necessarily describe all devices necessary for a functional system. All components and devices shall be furnished and installed as required to provide a complete, operable and reliable system for accomplishing the functions and meeting the performance set forth hereinafter.
- M. The generator scope of work includes:
 - 1. Engine driven electric generator
 - 2. Remote fuel tank with fuel pump.
 - a. Generator supplier has fuel system responsibility for safe and functional system.
 - b. Fuel line piping meeting local code requirements and drawings.
 - 3. Sub-base fuel tank with fuel pump and associated piping.
 - 4. Battery charger (120 VAC operated) mounted to generator frame.
 - 5. Weatherproof housing.
 - 6. Sound attenuating housing.
 - 7. Noise attenuating system.
 - 8. All auxiliary apparatus and accessories shall be provided as required for a fully functional generator and to meet local code requirements.
 - 9. Install a steel reinforced concrete pad, adequately sized to support the specified generator and fuel tank.
 - 10. All piping associated with exhaust system.
 - 11. Trenching, back filling, compaction and paving of each underground conduit route and fuel line piping.
 - 12. Field installation, startup, testing and training for the generator and associated equipment as part of this scope of work.
 - 13. Fuel for use during testing and full tank top off upon testing acceptance.

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Project Drawings
- C. The following manufacturing and installation standards apply to this section:
 - 1. ASTM International (ASTM): A335/A335M, Specification for Seamless Ferritic Alloy-Steel Pipe for High-Temperature Service.
 - 2. Best Available Control Technology Standards (BACT)
 - 3. Code of Federal Regulations (CRF): Title 40 Volume 18, Control of

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Emissions from New and In-Use Non-road Compression-Ignition Engines.

4. National Fire Protection Association (NFPA):

- a. 37, Installation and Use of Stationary Combustion Engines and Gas Turbines.
- b. 70, National Electric Code.
- c. 110, Emergency and Standby Power Systems.

5. SAE International (SAE): J1074, Engine Sound Level Measurement.

6. Underwriters Laboratories, Inc. (UL):

- a. 142, Steel Aboveground Tanks for Flammable and Combustible Liquids.
- b. 2085, Protected Aboveground Tanks for Flammable and Combustible Liquids.
- c. 508, Industrial Control Equipment.
- d. 1236, Battery Chargers for Charging Engine-Starter Batteries.
- e. 2200, Stationary Engine Generator.

- D. The bidder shall carefully examine the plans and specifications, and be familiar with the conditions of the location of installation.

1.03 QUALIFICATIONS

- A. Equipment manufacturers shall be represented by a company capable of servicing and testing the generator unit from a mobile service vehicle dispatched from within a 100 mile radius.

1.04 SUBMITTAL REQUIREMENTS

- A. Submit shop documents and drawings for approval in accordance with this subsection and as specified in Electrical Specifications [Electrical General, Submittal Requirements]. All non-relevant items not provided on this project shall be crossed-off or deleted from all submitted documents and drawings.
- B. Submit a specification compliance statement, describing differences between specified and proposed equipment. Note equipment provided specifically to meet local agency or authority having jurisdiction requirements.
- C. Complete "Generator Data Sheet" at the end of this section and submit this form with the generator submittal.
- D. Submit data sheets and catalog information detailing:
- 1. Engine:
 - a. Make and model.

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- b. Fuel type.
- c. Number of cylinders and cylinder arrangement.
- d. Bore and stroke.
- e. Compression ratio.
- f. Piston speed, Feet per Minute, at rated RPM.
- g. Cylinder head, piston, valve, and block material.
- h. Crankshaft material.
- i. Main bearings, quantity and type.
- j. Rated RPM and HP at rated RPM.
- k. Governor type.

2. Generator:

- a. Make and model.
- b. Generator full load electrical rating, KVA, KW, Voltage, Amperage, Frequency (Hz), # of Phases, # of Wires, Power Factor.
- c. Generator and Exciter type.
- d. Insulation material, class, and temperature rise.
- e. Bearings, quantity and type.
- f. Peak motor starting, KVA.
- g. Voltage regulator type and regulation % from no load to full load.
- h. Frequency regulator type and regulation %, from no-load to full load.
- i. One step load acceptance.
- j. Unbalanced load capability.
- k. Number of leads.
- l. Generator transient ($x'd$) and subtransient ($x''d$) reactance in per unit.
- m. Ambient temperature range.

3. Electrical

- a. Control and instrument panel.
- b. Generator main breaker.
- c. Batteries and battery charger.

4. Cooling System

- a. Maximum ambient temperature.
- b. Capacity (gallons).
- c. Coolant flow (gpm).
- d. Fan diameter (in).
- e. Fan HP requirement at rated RPM.

5. Accessories:

- a. Exhaust silencer, stack, and piping system.
- b. Fuel tank and piping system.
- c. Vibration isolation system.
- d. Block Heater system.
- e. Weatherproof/Soundproof Housing as specified herein.

f. Paint Finish.

E. Submit electrical schematics and wiring diagrams for:

1. Generator control panel.
2. Battery charging system.
3. Main generator.
4. Voltage regulator.
5. Governing system.
6. Generator main breaker.

F. Submit dimension drawings for:

1. Engine generator side, front, and top.
2. Pad construction (minimum) size, anchor details.
3. Enclosure (if required).
4. Fuel tank and containment basin.
5. Exhaust muffler and air intake baffle.
6. Conduit stub-up areas under generator frame and/or sub-base fuel tank.

G. Submit reports, calculations, and curves for:

1. Generator sizing calculation (computer generated report acceptable) showing that the unit is sized adequately to start all loads as shown on Contract Drawings "Load Calculation" without exceeding the maximum voltage dip specified.
2. Generator air emissions data, prototype or actual, suitable for submission to governing air quality management agency where generator is to be installed. Emissions data shall be for fuel type as required by local air quality agency.
3. Sound level data showing that the complete generator package meets the sound level requirements stated herein.
4. Engine generator fuel consumption data at 25%, 50%, 75% and 100% electrical loading.
5. Proposed concrete pad dimensions, reinforcement method and isolation material (as necessary) for submitted generator.
6. Seismic calculations for bolt down anchorage for seismic site class D. Calculation shall be signed by a California Registered Professional Structural Engineer. Generator installation shall meet applicable CBC or IBC requirements for stand-by power systems.
 - a. Calculations shall include calculations for wind loading on equipment to be mounted outdoors.
 - b. The Contractor shall submit a copy of the current ICBO anchor evaluation report for each type of anchor submitted.

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- c. The Contractor shall submit a copy of the concrete mix design to include the concrete design strength.
- d. The Contractor shall submit Near Fault Vicinity and Location maps.

H. Air Quality Management Applications and Permits

- 1. The Contractor shall obtain the correct ATC application from the AQMD and preliminarily complete the application by inserting the project specific generator technical information. Submit preliminary partially completed application to the Engineer for use by the Owner in preparation of the final completed ATC application.
 - 2. The Contractor shall submit all generator specific information required to complete the ATC permit application. The Owner will not submit the application until all the information is received and the submittal receives a status of "make corrections noted" or "approved." Submit information in sufficient time for application processing and submittal review as to not delay project completion. The generator will not be considered approved until the ATC permit is obtained.
 - 3. The Owner shall complete and apply for the "Authority to Construct" (ATC) permit from the Air Quality Management District or Board with jurisdiction for this generator system. Fees for permit and application will be paid by the Owner. The Owner will submit the permit application within 14 days of submittal approval. Allocate 12 weeks for Owner to obtain ATC permit once application has been submitted.
 - 4. The Contractor shall confirm that the submitted generator meets all AQMD guidelines prior to submittal of the generator unit or preliminary application. Failure to do so will delay the ATC permitting and submittal approval.
- I. Descriptive literature shall be provided that describes the generator and all accessories. This literature shall provide sufficient detail to determine that the generator has all the accessories, options, features, and characteristics specified herein. Items that are not provided shall be neatly lined out.
- J. Deviations from the Contract documents shall not be incorporated into the work without prior written approval. A "Change Order" directive is required prior to incorporating any deviation from the Contract documents that has costs associated. The cost differential associated with this change order must be negotiated to amend the Contract to reflect the costs or savings.
- K. Exceptions to the Specifications or Drawings or equipment or procedures submitted as "equal" to specified equipment shall be clearly identified by the equipment supplier in a letter at the front of the submittal. Submittal data for "equal" equipment or procedures shall contain sufficient details so a proper evaluation may be made. The Contractor is responsible for verifying proper application/operation of substituted equipment.
- L. The Owner will not accept any ownership for material or equipment until the

corresponding submittals have been reviewed by the Owner and approved.

- M. Submit complete and specific information with regard to equipment representatives and service facilities.

1.05 OPERATION AND MAINTENANCE INFORMATION

- A. Provide six (6) sets of operating, maintenance & parts instructions in original manuals (no copies allowed).

PART 2: PRODUCTS

2.01 QUALITY

- A. The generator shall be as manufactured by Caterpillar, Cummins, Generac, Kohler or equal with accessories as defined herein.
- B. The equipment supplied and installed shall meet the requirements of the National Fire Protection Association (NFPA 70 and NFPA 110) and all applicable local codes and regulations.
- C. The generator system shall be designed as a "black start" unit capable of starting and operating without any external power.
- D. Provide all of the features, options, and accessories specified herein and shown on the design drawings. Finished equipment shall be complete and site tested as an installed unit with all accessories functioning.
- E. All rotating parts shall have guards to protect against accidental contact in accordance with Federal OSHA and Cal-OSHA requirements.

2.02 RATING

- A. The engine generator shall have a minimum continuous standby rating as listed in "Generator Data Sheet" at the end of this section. Standby rated shall mean that generator starts within 60 seconds upon being called and operates continuously for the total duration of the generator call or fuel supply. Rating of the generator shall be based on operation when equipped with all necessary operating accessories such as radiator, fan, air cleaners, lubricating oil pump, governor, exhaust silencer, etc.
- B. No derating from the ratings specified shall occur for ambient temperatures below 122°F or installation elevation below 1,000 feet.
- C. The generator will be installed at approximately 1000 feet above sea level. The generator shall operate as specified at ambient temperatures between 0 degrees Fahrenheit and 122 degrees Fahrenheit.
- D. The engine/generator shall accept 100% of its nameplate rating at 0.8 PF in one step, in compliance with NFPA 110, Paragraph 5-13.2.6.
- E. The generator shall be capable of successfully providing three phase, four wire, 60 hertz power to start and continuously operate at the specified KW

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rating and below for loads shown in the drawing and/or with power factors between 0.5 lag to 0.9 lead. It shall be capable of operating in noisy electrical environments that are typical of variable frequency drive motor loads. The nominal voltage and maximum step voltage dip shall be per the "Generator Data Sheet," as measured line to line at the generator terminals, during start of any of the station loads.

- F. Generator set mean time between failures shall be a minimum of 5,000 hours.

2.03 ENGINE

- A. The engine shall be a turbocharged compression ignition engine type, water cooled, four cycle, with vertical inline or V-type cylinders and an overhead valve configuration.
- B. The engine shall utilize only NO. 2 diesel fuel. Generator shall operate per manufacturer's specifications using fuel approved by local air quality authorities.
- C. The engine shall be of direct injection design, i.e. pre-combustion chambers shall not be incorporated in the cylinder heads. Glow plugs shall not be used for engine starting.
- D. The engine shall have sufficient power to produce the specified ratings when operating with all accessories including exhaust, fuel, cooling, and battery charging systems, etc.
- E. The engine shall be equipped with:
 - 1. Engine driven or electric fuel transfer pump, fuel filters, and electric fuel shutoff valve. The fuel transfer pump shall be capable of lifting the fuel from the sub-base fuel tank. Primary and secondary fuel filters shall be provided. The fuel filters shall be replaceable and conveniently located for servicing.
 - 2. Electrical governor; consisting of a magnetic pickup speed sensor, adjustable electronic control, and an electrical actuator mounted integrally with the fuel pump. The governor shall provide automatic engine generator set frequency regulation adjustable from isochronous to 5% droop. Governors using external throttle linkages are not acceptable.
 - 3. An electric starting system complete with batteries, battery charger, battery rack, connector cables, and any other equipment required to start the standby generator. The starting system shall not require an auxiliary AC power supply to start, fully load, and operate the standby generator. The batteries shall be sized to provide five starts with 30 seconds cranking for each start attempt. The battery charger shall be sized to fully recharge the batteries within 12 hours. If required to maintain the above criteria, an electrical heat pad for the batteries shall be provided to keep the batteries in a ready state at the specified minimum ambient temperature. The charger shall be furnished with

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charger trouble alarm and an automatic equalize timer for fast recharge. The charger shall alarm on loss of power and cause a generator common alarm output.

4. Positive engagement solenoid shift-starting electric starter with DC voltage as listed in "Generator Data Sheet."
5. Battery charging alternator with a minimum ampere output as listed in "Generator Data Sheet."
6. Positive displacement, full pressure lubrication oil pump, cartridge oil filters, dipstick, and oil drain. The oil pump shall be capable of supplying adequate lubricating oil under pressure to the main bearings, crankshaft bearings, pistons, piston pins, timing gears, camshaft bearings, and valve rocker mechanism. The cartridge oil filters shall be full flow type, conveniently located for servicing. Filters shall be equipped with a spring loaded bypass valve to ensure oil circulation if filters are clogged.
7. An electric DC motor-driven pre-lube oil pump shall be provided if required by the engine manufacturer's design for "black start" of the standby generator.
8. Dry type replaceable air cleaner elements. The dry-type air cleaner shall be equipped with a self-cleaning dust and water evacuator and a vacuum restriction gauge to indicate maximum allowable restriction of the air cleaner system according to the engine manufacturer's recommendations. The air cleaner elements shall be conveniently located for servicing. Unit mounted radiator, blower fan, water pump, and thermostat. The radiator with blower type fan shall be sized to maintain safe operation at 122° F ambient temperature. The engine cooling system shall be filled with a solution of 50/50 ethylene glycol/water antifreeze or equivalent as recommended by the manufacturer.
9. Replaceable type cylinder liners.
10. Replaceable insert main bearings.

2.04 GENERATOR

- A. The generator shall be a synchronous wye-connected generator designed for direct connection to the engine. It shall be salient-pole, brushless, 12-lead reconnectable, self-ventilated, drip-proof construction, with amortisseur rotor or damper windings and skewed stator for smooth voltage waveform. The unit shall conform to the applicable standards for synchronous generators, salient pole type.
- B. The generator shall have the following features:
 1. Temperature rise of the rotor and stator shall be limited to 125° C for the specified KW and KVA ratings.

2. Steady state voltage regulation from no load to full load within +/- 0.25% for electronic governors, +/- 0.8% for mechanical governors.
 3. Steady state regulation from no load to full load within +/- 0.25%.
 4. The insulation material shall meet the NEMA standard (MG1-22.40 and 16.40) for class H and be vacuum impregnated with epoxy varnish to be fungus resistant per MIL I-24092.
 5. The excitation system shall be of brushless construction controlled by a solid state voltage regulator with adjustable volts-per-hertz operation capable of maintaining voltage within +/- 2% at any constant load from 0 to 100% of rating. The regulator isolated from the load to prevent tracking when connected to SCR loads. The regulator shall be protected from the environment by conformal coating and provide individual adjustments for voltage range, stability and volts-per-hertz operations. Provide permanent magnet (PM) excitation for generators above 150KW or AREP excitation for generators smaller than 150KW.
 6. The generator shall have a single maintenance-free bearing and be connected to the flywheel housing with a semi-flexible coupling between the rotor and the flywheel.
 7. Radio interference suppression to meet the BS.800 and VDE Class G and N standards.
 8. Telephone interference factor of less than 50 per NEMA MG1-22.43.
 9. AC voltage waveform total harmonic distortion of less than 5% total from no load to full load. Any individual harmonic shall have less than 3% THD.
- C. The generator shall be inherently capable of sustaining at least 300% of rated current for at least 10 seconds under a 3-phase symmetrical short circuit without the addition of separate current support devices.
- D. On starting each listed load, the instantaneous voltage dip shall not exceed that listed in "Generator Data Sheet" and shall recover to +/- 1% of rated voltage within one second.

2.05 CONTROLLER & INSTRUMENT PANEL

- A. Provide a generator-set mounted controller & instrument panel. The controller top shall be mounted no higher than 6 feet above finished grade. Controller mounting shall be vibration isolated from the rest of the engine / generator set.
- B. Emergency stop maintained pushbutton located at maximum 6 feet above grade.
- C. Remote mounted emergency stop glass covered pull switch located as shown in the drawings at maximum 54 inches above grade.

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D. Controller Features

1. All solid state construction, except for interface relays. The controller shall utilize a microcomputer based logic with a ROM based control algorithm. Circuit boards shall be coated to protect from environmental damage.
2. Graphical display with preconfigured screens for parameter and alarm viewing and setpoint changes.
3. Voltage, current and power metering, engine and generator parameter viewing.
4. Real time clock for time stamping of diagnostic events and maintenance reminders.
5. Non-volatile memory for setpoint storage through power failures.
6. Security through password access.
7. Control of generator output circuit breaker for generator protection and synchronizing functions.
 - a. Paralleling functions to including automatic and manual synchronizing, dead bus arbitration, load sharing, and load sense/load demand.
 - b. Protective relaying functions – phase sequence, over/under voltage, over/under frequency, reverse power, overcurrent, current balance.
8. Communications to SCADA systems through included Ethernet Modbus TCP port.

E. Control circuitry shall be of plug-in design for quick replacement. The controller shall be equipped to accept a plug-in device capable of allowing maintenance personnel to test controller performance without operating the engine. The controller shall be capable of operation from -40°C to 85°C .

F. Input circuitry from fuel tank devices such as fuel level switches and level transmitters, shall be designed to be suitable for the application and consist of current limiting circuitry and/or non-sparking devices.

G. Control must meet NFPA-110 Level 1 requirements (2005 version) and meet NFPA-70.

H. The panel display shall include as a minimum:

1. AC voltmeter.
2. AC ammeter.
3. Frequency meter.
4. Water temperature gauge.
5. Oil pressure gauge.

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6. Battery voltmeter gauge.
7. Engine running time meter (non-resettable)
8. Voltage adjustment.
9. Pre-alarms:
 - a. Auxiliary fault.
 - b. Battery Charger Fault.
 - c. Fuel low level/pressure.
 - d. Low oil pressure.
 - e. Low engine temperature
 - f. High engine temperature.
 - g. High battery voltage
 - h. Low battery voltage
 - i. Fuel leak alarm
10. Engine shutdowns:
 - a. Auxiliary Shutdown.
 - b. Emergency Stop.
 - c. Low coolant level
 - d. Overcrank.
 - e. Overspeed.
 - f. Low oil pressure.
 - g. Low fuel level.
 - h. High engine temperature.
11. Audible Alarm:
 - a. Generator switch not-in-auto.
12. Functions:
 - a. Three position (RUN-OFF-AUTO) function: In the RUN position the engine shall start and run regardless of the position of the remote starting contact. In the AUTO position, the engine shall start when contacts in the remote control circuit close and stop five minutes after those contacts open following the engine cooldown sequence. In the OFF position the engine shall not start even though the remote start contact closes. This position shall also shutdown engine immediately.
- I. Wiring – The manufacturer shall furnish, install at the factory, and test all wiring required between devices mounted within or on the standby generator unit base. All wiring shall be neatly and carefully installed in wiring gutters, wire looms, or raceway. All power supply circuits shall be provided with suitable isolation/electrical protection means consisting of either fuses or circuit breakers. All internal wiring shall be marked at both ends of the conductor.
- J. Operation:
 1. Two-wire generator start/stop control from an automatic transfer switch (normal start and stop with cooldown) and from a remote

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emergency stop (immediate stop with fuel shutoff).

2. Engine starter control for:
 - a. Cranking cycler with 15 second ON and OFF cranking periods or as recommended by the manufacturer. Cranking shall cease upon engine starting and running.
 - b. Two methods of cranking termination shall be provided:
 - 1) After three 15 second cranking cycles.
 - 2) After 75 seconds if the engine fails to start or as recommended by the manufacturer
 - 3) Each condition shall lockout the engine, and visually indicate an overcrank alarm.
 - c. Starting system shall be designed for restarting in event of a false engine start. It shall permit the engine to completely stop rotating before reengaging the starter.
3. Provide wiring circuitry and sensing devices as required for emergency shutdown of the engine on any occurrence of the following conditions.
 - a. Low coolant level.
 - b. Over speed.
 - c. Over-crank.
 - d. High engine temperature.
 - e. Low oil pressure.
 - f. Low fuel
 - g. Emergency stop
 - h. Auxiliary shutdown
 - i. High enclosure temp (360 °F)
 - 1) Temperature switch shall be roof or ceiling mounted above engine air intake and connected via ½" EMT conduit to control panel. Provide Fenwal Detect-a-Fire model 12-X27121-000.
4. Engine cool down timer factory set at five (5) minutes to permit unloaded running of the generator set after the call to operate is dropped.
5. Programmable I/O contacts to be provided and brought out to terminals for connection to remote monitoring equipment:
 - a. A common alarm dry contact, normally open which closes on any alarm condition.
 - b. A generator running dry contact, normally open which closes when the engine is running.
 - c. A generator in cool-down dry contact, normally open which closes when the engine is running but opens when the engine enters cool-down.
 - d. Low fuel level dry contact, normally open which closes on low fuel alarm condition.

- e. Auto switch position dry contact that closes when the three position (RUN-OFF-AUTO) selector switch is in the "AUTO" switch position.
- f. Remote emergency shutdown from normally closed switch.

2.06 ACCESSORIES

- A. Engine block heater. Thermostatically controlled and sized to maintain manufacturers recommended engine coolant temperature to meet the start-up requirements of NFPA-99 and NFPA-110, Level 1. Wattage and voltage shall be per "Generator Data Sheet."
- B. Exhaust System:
 - 1. The complete exhaust system (silencer, stack, and exhaust piping) shall be sized to ensure that exhaust back pressure falls within the manufacturer's minimum and maximum limitations under all operating conditions.
 - 2. Exhaust Silencer: Provide exhaust silencer including flexible piping & fittings properly sized and installed according to the manufacturer's requirements. The silencer shall be critical type (30dB attenuation minimum) and coated to be temperature and rust resistant. The flexible connector section(s) shall be seamless, stainless steel and the ends shall be pipe thread (2" maximum) or SAE flanged. Support for exhaust silencer shall be from overhead or side supports or as shown and shall not be carried by the exhaust manifold.
 - 3. Exhaust Stack and Piping: Provide thin-gauge steel pipes with flange connections, high temperature gaskets, elbows and straight runs to complete the exhaust system. The exhaust system shall extend vertically above roof to direct exhaust and heat away from building or enclosure or as shown on the drawings. Provide wall thimble and roof penetrations designed for high heat applications and a gravity actuated steel rain cap at end of exhaust pipe. Exhaust system shall be supported from side or above utilizing galvanized steel channel trapeze hangars, gusseted wall brackets or custom welded brackets per manufacturer's recommendations to meet the specified seismic design conditions. Design system to accommodate engine vibration and not loosen or break exhaust system mounts.
 - 4. Provide threaded welded half coupling on exhaust piping, ¾" copper drop pipe and ball valve to drain condensate from muffler and exhaust stack. Mount piping on wall with channel supports. Drain outlet shall be plumbed down the nearest wall such that a 5 gallon bucket may be slid beneath to catch discharge. Exhaust piping and muffler shall be sloped 2% such that drains are at the low points.
 - 5. Insulation system: The non-outdoor portion of the exhaust pipe, stack and silencer shall be covered with fiberglass insulation and soft outer cover. The outer cover shall be constructed of heat and fire resistant canvas material with snap buttons.

C. Vibration Isolation

1. Engine Generator: Vibration isolation dampeners between the engine and steel mounting skid.
2. Exhaust Silencer: Mount with vibration isolators and/or flexible exhaust piping.
3. Enclosures shall be mounted with vibration isolators and/or steel structural stiffeners to minimize added noise due to vibration.
4. The generator shall have provisions for shipping/transit such that expected shocks will not damage the vibration isolators or generator.

D. Remote Fuel Tank:

1. Fuel tanks shall be sized to provide fuel for a minimum run time in hours at full load or gallons as listed in "Generator Data Form."
2. The remote fuel tank shall be listed under UL 142, for above ground steel tanks for flammable and combustible liquids, and UL 2085, furnace fire tests. The tank will be labeled with UL Approvals according to their particular classification.
3. The fuel tank shall meet all local safety and code requirements for secondary containment, leak monitoring, and spill protection. Provide any required information to aid in the permitting process. All necessary information shall be included in the submittal to avoid delays in project completion.
4. Fuel tank shall include accessories including, emergency vent, pressure/vacuum vent, Fill adaptor and cap, test wellcap and adaptor, gauge stick, fill limiter, decal package for tank size and product, and any specialized pipe fittings and caps to accommodate generator service.
5. The fuel tank construction shall have the following features:
 - a. Primary tank constructed of 1/8" (min) sheet steel with continuous welds on all exterior seams. Rectangular in shape and top penetrations only. The outer surface of the primary steel tank shall be covered by a minimum of 1/4" thick insulation panels. Exposed metal shall be powder coated to prevent corrosion.
 - b. Secondary containment shall consist of 30 Mil thick High Density Polyethylene membrane enclosing the steel tank and insulation material.
 - c. The primary and secondary containment shall be encased in 6 inches of monolithic reinforced concrete, with minimum design strength of 4000 psi at 28 days. Concrete encasement shall not have seams. The concrete exterior shall be painted with

two-part water based epoxy paint.

- d. 5-15 gallon spill containment around fill port with normally closed valve to release spilled fuel into the primary steel tank. Provide rain cover for spill containment area.
 - e. 2" locking fill cap
 - f. Emergency vent system per NFPA 30. Provide vent extension to 12 ft (min) height or as required per local codes.
 - g. 30 year warranty by manufacturer.
 - h. Lugs for grounding per NEC 780.
 - i. 1" fuel suction and return connections (minimum). Provide normally closed solenoid shutoff valve at fuel tank outlet that will energize/de-energize with generator run command.
6. 1-1/4" mechanical fuel level gauge. Readout shall be fraction of full tank with indicators at 25%, 50%, 75%, 85%, 90%, and 100% full. Provide Krueger Sentry Gauge or equal.
7. Fuel Tank Control Panel
- a. Control panel shall monitor tank level, and provide alarm contact outputs for low level, low shutoff level, and high filling level. High alarm shall sound alarm horn on front of unit.
 - b. Control panel shall monitor leakage status from secondary containment tank.
 - c. Enclosure shall be suitable for outdoor installation on fuel tank in direct sunlight. Padlockable NEMA 4 or better. Provide sunshade as necessary.
 - d. 120 VAC with alarm follower relays for all alarms, 4-20ma output of tank level, and 0.5" LED display.
 - e. Push buttons for programming, mode, test, and others as required.
 - f. Shall include magnetostrictive level sensor to measure tank level with 0.1" accuracy.
 - g. Digital display shall show level in feet, gallons remaining, available room in gallons, and all setpoint alarm information.
 - h. Fuel tank control panel shall be Pneumercator TMS 2000 or equal.
8. Fuel level switches that are rated for use in fuel or fuel vapor atmosphere that are non-sparking. Switches shall actuate on a float

mechanism which operates a sealed switch for connection to the generator control panel. Provide the following independent or combination switches:

- a. High High (90% full) level audible alarm.
- b. High (85% full) level audible alarm.
- c. Low (25% full) level for low fuel alarm indication.
- d. Low Low (5% full) for low fuel engine shutdown and indication.
- e. Secondary Containment Leak for fuel tank leak alarm.

9. Seismic Restraint to comply with Seismic area requirements. Provide anchorage and seats for tank legs as required.

E. Batteries: Support tray with plastic battery enclosure, tie downs, battery cables, and 12-volt batteries all mounted to the engine/generator skid. The batteries shall be capable of delivering the cold-cranking amps required at zero degrees Fahrenheit per SAE Standard J-537.

F. Signage:

1. Signage shall be posted on the sides of the generator enclosure facing the main approaches to the system.
2. Provide an engraved placard with fuel filling procedure, tank capacity, fuel type, and maximum fill guidelines.
3. Provide signage 0.08" thick white painted/silk-screened aluminum with 1-1/2" red lettering to read "No Smoking". Signs shall be posted on all sides of generator enclosure.
4. Provide signage 4" x 6" x 0.08" white painted aluminum with red lettering to read "Generator Emergency Stop" for installation at a remote emergency stop switch as shown on the drawings.

G. Automatic Battery Charger suitable for continuous operation to maintain the battery charge voltage with no manual intervention. Battery charger features shall be as follows:

1. Solid state circuitry with charging modes as described to automatically recharge the starting batteries. When battery voltage drops below the specified value the battery charger shall operate at the high rate constant current mode until the battery voltage rises to the preset equalize level. The equalize mode will continue until the current required to maintain this voltage drops to 50% of the high rate level.
2. A current limiting circuitry to prevent charger overload under low battery voltage conditions. Provide minimum DC voltage and amp ratings (minimum) as listed in "Generator Data Sheet."
3. The battery charger shall provide temperature compensation of -2 mv/°C per cell over the ambient temperature of -40°C up to 60°C. This shall automatically adjust the "float" and "equalize" voltage settings to prevent the batteries from overcharging at high temperature and under charging at low ambient temperatures.

4. The complete charger unit shall be U.L. listed.
 5. The charger shall be mounted to the engine/ generator skid. The charger shall be operational through an ambient temperature range of -40°F to 140°F. It shall include the following features:
 - a. Fused AC input and DC output overload & short circuit protection.
 - b. DC ammeter and voltmeter, 5% full scale accuracy, to indicate battery charging amps and volts.
 - c. "Power on" lamp to indicate when the charger is operating.
 - d. DC voltage regulation +/- 1% from no load to full load and over AC input line variations of +/- 10%.
 - e. Reverse polarity protection to prevent the charger from energizing outputs if improperly connected.
 - f. Current limiting. Current limiting circuitry shall be provided to prevent damage to the charger from being overloaded at low battery voltage such as occurs during short circuit conditions or during engine starter cranking.
 - g. The battery charger shall be powered from 120 VAC.
- H. Sound Attenuating Weatherproof Housing for the generator shall be as follows:
1. Manufactured from heavy-gauge aluminum or galvanized sheet steel and painted with the manufacturer's standard finish. Paint color shall be submitted to Owner for approval. Color choices shall include but not be limited to autumn white and beige. All surfaces shall be painted inside and out.
 2. The interior of housing shall have a heat resistant thermo-acoustic insulation system designed to meet sound attenuation requirements for the life of the generator. The placement, type, thickness and weight of the attenuator panels shall provide sound dampening to the specified level of allowable noise outside the generator. The air intake and exhaust shall have similar dampening and allow ample air flow for proper engine cooling, without having to remove side panels. The insulation shall be mechanically held against walls, ceiling and doors behind full sheets of perforated galvanized sheet steel. All insulation shall be covered with the exception of the exhaust piping.
 3. The enclosure shall house the engine, generator, control & instrument panel, battery charger, generator breaker, and all accessories.
 4. The radiator discharge shall be directed upwards through the use of a vertical duct mounted to the enclosure. The duct shall include drip holes to allow rain water to drain out the bottom.
 5. All exterior panels shall have lockable latches to prevent unauthorized entry.

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6. The specified exhaust silencer shall be mounted in or on the roof of the enclosure with vibration isolators.
7. Pressure drops through the enclosure openings shall not exceed limits set by the manufacturer of the generator.
8. The enclosure shall be free standing and anchored to the concrete pad (or trailer) supporting the engine generator. The enclosure may be mounted to the generator skid only if a skid mounted enclosure can meet the sound attenuation requirements specified.
9. The enclosure shall be designed so that sound levels measured at a 25 feet radius from any side of the enclosure (free field) and 5 feet above ground level, noise levels shall not exceed (Generator Data Sheet) dB with the engine generator running at full load and full speed inclusive of exhaust noise.

I. CIRCUIT BREAKER DISCONNECT

1. GENERAL

- a. Circuit breakers and motor circuit protectors shall be manufactured by Eaton Cutler-Hammer, Square D, G.E., Siemens, or equal.
- b. Sized by Generator manufacturer to meet UL standards, cabling requirements per plans, and "Generator Data Sheet."
- c. Multiple-pole circuit breakers shall be designed so that an overload on one pole automatically causes all poles to open. The use of tandem or dual circuit breakers in a normal single-pole space to provide the number of poles or spaces specified are not acceptable.
- d. Molded case circuit breakers shall be operated by a single toggle-type handle and shall have a quick-make, quick-break switching mechanism. An automatic trip of the breaker shall be clearly indicated by the handle position. Contacts shall be non-welding silver alloy and have flash reduction arc chutes. A push-to-trip button on the front of the circuit breaker shall provide a local manual means to exercise the trip mechanism.
- e. Minimum interrupting capacity:
 - 1) 480 volt circuit breaker shall have a minimum interrupting capacity of 42,000 amperes.
 - 2) 120 or 208 or 240 volt breaker shall have a minimum interrupting capacity of 22,000 amperes
- f. Circuit Breakers less than 400 volt and below 100-ampere trip or less shall have thermal-magnetic (TM) trip units and inverse time-current characteristics unless protecting full voltage or solid state reduced voltage motor starters, 15kva or larger transformer secondary, or as specifically shown on drawings.

- g. Circuit Breakers protecting full voltage or solid state reduced voltage motor starters shall be motor circuit protector (MCP) breakers with adjustable magnetic trip unless otherwise noted on the drawings.
- h. Circuit breakers shall be UL listed for series application.
- i. Where indicated circuit breakers shall be current limiting.
- j. Where indicated on drawings, provide UL listed circuit breakers for continuous duty at 100% of their ampere rating in the intended enclosure.

2. TRIP UNIT

- a. The trip unit shall be Eaton type Digitrip OPTIM 550 – Programmable or approved equal.
- b. Each circuit breaker microprocessor-based tripping system shall consist of three (3) current sensors, a trip unit and a flux-transfer shunt trip. The trip unit shall use microprocessor-based technology to provide the adjustable time-current protection functions. True RMS sensing circuit protection shall be achieved by analyzing the secondary current signals received from the circuit breaker current sensors and initiating trip signals to the circuit breaker trip actuators when predetermined trip levels and time-delay settings are reached.
- c. Interchangeable rating plugs shall establish the continuous trip ratings of each circuit breaker. Rating plugs shall be fixed-type. Rating plugs shall be interlocked so they are not interchangeable between frames, and interlocked such that a breaker cannot be closed and latched with the rating plug removed.
- d. System coordination shall be provided by the following microprocessor-based programmable time/current curve shaping adjustments:
 - 1) Protection - Fixed rating plug, interchangeable (In setting)
 - 2) Adjustable long delay pickup setting $0.4-1.0 \times I_n = I_r$
 - 3) Programmable long-time delay with selectable I^2t (2-24 seconds) and/or I^4t (1-5 seconds) curve shaping
 - 4) Programmable short-time settings, $150-800\% \times I_r$ in 1% increments, with $\pm 5\%$ band tolerance
 - 5) Programmable short-time delay, 100-500ms, with selectable flat or I^2t curve shaping
 - 6) Programmable instantaneous pickup settings, $200-800\% \times I_n$ in 1% increments
 - 7) Programmable ground fault pickup settings trip, 20-100% I_s , in 1% increments
 - 8) Programmable ground fault delay, 0-500ms, with selectable flat or I^2t curve shaping

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- e. The microprocessor-based trip unit shall have a powered/unpowered selectable thermal memory to provide protection against cumulative overheating should a number of overload conditions occur in quick succession.
- f. When the instantaneous setting has been deselected, a selectable discriminator circuit shall be provided to prevent the breaker being closed and latched on to a faulted circuit.
- g. Provide neutral ground fault sensor for four-wire loads.
- h. The trip unit shall have an information system that utilizes battery backed-up LEDs to indicate mode of trip following an automatic trip operation. The indication of the mode of trip shall be retained after an automatic trip. The LEDs shall be complemented by trip event information stored in non-volatile memory after a trip event. A trip reset button shall be provided to turn off the LED indication and reset the memory after an automatic trip. A test pushbutton shall energize an LED to indicate battery status.
- i. The microprocessor-based trip units shall be capable of monitoring the following data:
 - 1) Instantaneous value of phase, neutral and ground current
 - 2) Minimum and maximum current values
 - 3) Average demand current
 - 4) System diagnostic information such as alarms and cause of trip
 - 5) Approximate level of fault current that initiated an automatic trip operation
- j. The trip unit shall contain test capability. Testing shall be carried out by using a hand-held programmer, a breaker interface module or a remote computer to select the values of test current within a range of available settings. The basic protection functions shall not be affected during test operations. The breaker may be tested in either the "Trip" or "No Trip" test mode. Provide an auxiliary power module to allow the breaker trip unit to be tested with a 120-volt external power source.
- k. A hand-held programming unit shall be provided to set/change the network communication breaker address for each device, set the system baud rate, distribution frequency, display breaker information, and display monitored values. In addition, provide password protection for programming time/current set points and to perform functional testing of phase and ground trip characteristics. The programmer shall be self-powered by an internal battery. Provide as a minimum one (1) hand-held programming unit per assembly.
- l. The monitored data shall be displayed by a hand-held programmer, a breaker interface module or a remote computer.

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- m. Provide auxiliary position indication switch for closed and tripped, each with Form C contacts. Provide additional auxiliary switches, bell alarms, shunt trips, and undervoltage releases where indicated on the drawings.

J. Load Bank

1. The load bank shall be pad mounted and self contained.
2. Load bank shall be rated for minimum percentage of generator full load as defined in the Generator Data Sheet at 1.0 power factor. Acceptable KW total tolerance shall be not more than $\pm 5\%$ of nameplate full load, and $\pm 2\%$ phase to phase.
3. Load Bank Control Panel
 - a. Manual Mode load control loads the generator to value set by manual toggle switches whenever the generator is operating for routine exercise. The transfer switch shall be in normal position and generator is running but not in cool-down mode.. Load shall be applied to a running generator after a settable time delay.
 - b. Automatic Mode load control automatically adds and removes loads the generator as needed to maintain optimum loading of the generator to prevent "wet stacking". The transfer switch shall be in normal position and generator is running but not in cool-down mode. Load shall be applied to a running generator after a settable time delay.
 - c. Automatically disconnects load from the generator if the transfer switch is in the emergency position or if the generator is in its cool down mode.
 - d. Provide minimum six (6) load steps, with independent switches and indicator lights.
 - e. Automatic overheat thermostat to prevent damage.
 - f. Mounted in accessible location with generator in operation and no more than 72" above grade, inclusive of sub-base fuel tank.
 - g. Outdoor load bank control panels shall be NEMA 3R rated. Verify location of load bank control panel(s) with installation contractor.
4. The pad mounted load bank shall be Load-Tec Model OSM2, Avtron with optional control panel, or equal.

2.07 STAIR AND PLATFORM SYSTEM

A. General

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1. Non-skid walking surface shall be used for safety: steel pre-galvanized grip strut planking, 12 gauge thickness.
 2. Steel welding shall be in accordance with the ANSI/AWS D1.1-02 gas metal arc welding process and shall be performed by experienced operators.
 3. All exposed surfaces shall be smooth and free of sharp or jagged edges.
- B. Stairways
1. Stair treads, and stringers shall be designed for a uniform live load of 100 pounds per square foot and a concentrated vertical load of 300 pounds over an area of 4 square inches.
 2. Stair treads, stringers and risers shall be constructed using steel alloys for structural components.
 3. The walking surface of the stairs shall be steel pre galvanized grip strut planking slip resistant surface.
- C. Landings
1. Landings shall be designed for a uniform live load of 100 pounds per square foot and a concentrated vertical load of 300 pounds over an area of 4 square inches.
 2. Landings shall be level and have a dimension in the direction of travel not less than the width of the stairway. Landings shall be constructed using steel alloys for structural components.
 3. The walking surface of the landing shall be continuous, without gaps, shall be steel pre-galvanized grip strut planking slip resistant surface. Sizes shall be fabricated as required by local codes and/or for specific applications as indicated on drawings.
- D. Legs
1. The legs shall be designed to support the landing sections. The legs shall be designed so that they will be perpendicular to the ground and vertical loads are transmitted axially through them regardless of the slope. All legs shall have 6"x 6"x 1/4" anchor plate pads.
- E. The stair system shall be Amer-Fab, or equal.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. The construction methods specified herein shall be followed by the manufacturer of the generator. If the manufacturer fails to comply, the Contractor shall pay all costs required to make the changes to the equipment

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to conform to these construction methods.

- B. Screw type solderless terminals or lugs shall be provided for all field connected power cables, control and instrument wiring. All connections shall be accessible from a designated connection panel without removal of internal components.
- C. A terminal strip shall be provided for control and instrument wiring. Number all terminals with machine printed lettering.
- D. All internal and external control and instrument wiring shall have permanent identification at each point of connection. Wire identification shall be by machine printed numbered "shrink-tube" wiring sleeves. Internal wire numbers shall be per generator manufacturer's wiring diagram. External wire numbers shall be determined by the connected control panel(s).
- E. Control and instrument wiring shall be neatly bundled and secured in place with screw down anchors and plastic cable ties. Wiring shall be protected with plastic spiral wrap where it is subject to mechanical damage or crosses over to a hinged door.
- F. The generator and any accessories shall be a product of excellent workmanship and shall be free from any defects or imperfections that will affect their appearance or serviceability.
- G. The generator's neutral shall be grounded per generator manufacturer's installation instructions for 3 wire distribution systems.

3.02 INSTALLATION

- A. The generator shall not be delivered to the job site until the manufacturer's certified factory test report has been submitted, reviewed and accepted. A non-existent or non-reviewed certified factory test report shall be sufficient cause for the unit to be rejected.
- B. The Contractor shall remove rejected equipment immediately from the jobsite at his expense until the generator submittal and/or factory test report is approved.

3.03 FACTORY INSPECTION AND TESTS

- A. Factory or Factory Authorized Dealer shall be considered one in the same for the purposes of inspection, testing, service facility and herein after may be referred to as "factory" or "manufacturer."
- B. Factory Tests: Each generator to be supplied shall be tested by the manufacturer prior to shipment. All tests shall be made with all accessories installed. The factory tests shall be made under varying loads (30% to 100%) for a minimum of one hour total.

The factory testing shall include the following tests:

1. Single step load pickup.

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2. Transient and steady state governing.
 3. Safety shutdown device testing.
 4. Voltage regulation.
 5. Rated power.
 6. Maximum power.
 7. Test all generator control panel alarms, status lights & indicators.
 8. Test all remote connection status and alarm points (dry contacts).
 9. Simulate remote ATS start/stop of generator utilizing a wire jumper.
- C. A typewritten factory test report shall be provided which lists the factory tests performed. The results of the each test, name & phone number of person who performed the tests, date(s) when tests were performed, serial & part number of equipment tested, setting values, failures encountered, and repairs made during testing.

3.04 FIELD ASSISTANCE

- A. The Contractor shall take all precautions necessary to ensure the safety of all personnel during the tests. Absolutely no tests shall be run that could potentially cause injury or jeopardize personnel safety.
- B. The initial setup of each generator shall be performed by a factory-trained service person of the manufacturer's local representative. Fill the engine fuel, lubricants, and cooling system and make all preliminary tests and checks required before engine start-up the day prior to witness field testing.
- C. The Contractor shall be responsible for and pay the costs for the necessary fuel to fill each generator tank prior to the start of the field tests. The fuel shall include a fuel conditioner as recommended by the manufacturer.
- D. The Contractor shall pay for a factory-trained service representative to perform one (1) 8-hour day of field tests for each generator, beginning at 8:00 a.m. any weekday, except Friday.
 1. Each failure mode, alarm, and control function shall be demonstrated to Owner by the Contractor's factory-trained service representative prior to performing any other field tests.
 2. The generator manufacturer representative shall furnish a temporary 1.0 PF load bank and connection cabling rated for a load equal to no less than 100 percent of the generator nameplate KW. The load bank shall be connected to the generator output terminals for a four (4) hour, full-load test. The Owner Representative shall be allowed to change loads during the tests to simulate normal operating conditions. The factory-trained service person shall be responsible for running the generator during the load tests. Any defects or failures discovered during these tests shall be corrected or adjusted by the factory-trained service person. The engine generator load test shall be restarted after each repair or adjustment that requires shutdown of the generator. The test shall be restarted as many times as necessary until the generator runs for four (4) continuous hours without shutdown or failure.

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3. The temporary load bank shall be set-up the day before testing. Under no circumstances shall the testing be allowed to extend beyond 5:30 p.m.
 4. All field tests shall be witnessed by Owner. Written notice shall be provided to the Owner Representative seven (7) days prior to the date for the field test.
- E. The Generator Field Checklist (GCL per Electrical Specifications [Factory and Field Testing] shall be completed by the generator manufacturer representative prior to beginning of operational testing. The checklist shall be signed by the representative submitted prior to the start of operational load bank testing.
 - F. The Generator Performance Test Report (GPT per Electrical Specifications [Factory and Field Testing].) shall be completed by the generator manufacturer representative during operational testing. The forms shall be signed by the representative and given to the Owner Representative prior to completion of operational load bank testing.
 - G. The Generator Sound Level Data Form (GSLD Electrical Specifications [Factory and Field Testing] shall be completed by the generator manufacturer representative during operational testing. The forms shall be signed by the representative and given to the Owner Representative prior to completion of operational load bank testing.
 - H. Training
 1. The local representative's factory-trained service person shall instruct in the proper operating and maintenance procedures for all components of the generator. This instruction shall be given for a minimum length of two (2) hours. The training shall cover "operation" and "maintenance". Training shall not begin until Operation and Maintenance manuals are approved and field tests have been completed.

3.05 WARRANTY

- A. The Generator System Supplier shall have a staff of experienced personnel available to provide service on two (2) working days notice during the warranty period. Such personnel shall be capable of fully testing and diagnosing the equipment delivered; and of implementing corrective measures.
- B. If the Generator System Supplier fails to respond in two (2) working days, the Owner at its option will proceed to have the warranty work completed by other resources; the total cost for these other resources shall be reimbursed in full by the Contractor. The use of other resources, as stated above, shall not change or relieve the Contractor from fulfilling the remainder of the warranty requirements.
- C. Prior to final acceptance, the Contractor shall furnish a listing of warranty information for all manufacturers of materials and equipment supplied under

the scope of work covered in these design documents. The listing shall include the following:

1. Manufacturer's name, service contact person, phone number, and address.
2. Material and equipment description, equipment number, part number, serial number, and model number.
3. Warranty expiration date.

D. Hardware support:

1. The Contractor shall provide warranty of all equipment for a period of one (1) year from date of final acceptance. Standard published warranties of equipment which exceed the preceding specified length of time shall be honored by the manufacturer.
2. The Contractor shall provide all labor and material to replace or repair any hardware that fails during the warranty period, at no additional cost to the Owner.

3.06 FINAL ACCEPTANCE

- A. Final acceptance will be given by the Owner after the equipment has been field tested satisfactorily, each deficiency has been corrected, documentation has been provided, and all the requirements of design documents have been fulfilled.
- B. At the end of the project, following the completion of the field tests, and prior to final acceptance, the Contractor shall provide the following to the Owner:
 1. Fuel tank top off. The Contractor shall supply up to one entire tank of fuel at the end of the project.
 2. Each "operation, maintenance and parts" manual shall be modified or supplemented by the Contractor to reflect all field changes and as-built conditions.
 3. Two sets of keys for all locks.

GENERATOR DATA SHEET

The following data sheet is a summary of generator required specifications. Not all specification requirements are listed below. The Contractor/Supplier shall return this page with the Submitted Value column completed. If submitted values are less than those listed in the Specification Minimum column, then the supplier shall explain reasons for the exception in cover letter.

Description	Specification Minimum	Units	Submitted Value	Units
Generator Continuous Output Power	1500	KW		KW
	1875	KVA		KVA
Three phase voltage (Nominal)	480	Volts AC		Volts AC
Continuous amperage at 0.8 power factor	2255	Amps AC		Amps AC
Power Frequency	60	Hz		Hz
Max voltage dip with specified motors	12	%		%
Reactance – Subtransient (X''d)	**	%		%
Reactance – Transient (X'd)	**	%		%
Reactance – Synchronous (Xd)	**	%		%
Engine horse power at rated KW	**	HP		HP
Engine RPM at rated power	1800	RPM		RPM
Engine Fuel Type	No. 2 Diesel	-		-
Engine aspiration (Normal/Turbo)	Turbo	-		-
System Voltage	**	Volts DC		Volts DC
Alternator output (at system voltage)	**	Amps DC		Amps DC
Battery charger output	10	Amps DC		Amps DC
Engine block heater power	**	W		W
Alternator condensation strip heater	**	W		W
Heater(s) voltage (1 phase)	208	Voltage		Voltage
Fuel tank capacity (hrs @ 100% load)	24	Hours		Hours
Type (Sub-base/Remote)	Remote	-		-
Main Breaker Maximum Rating	2500	Amps		Amps
Trip Features Per Spec	LSIG	-		-
Interrupt Rating	65	KAIC		KAIC
Load Bank (Pad Mounted)	Yes	of Gen FLA		
Load Bank Rating Percentage	50 %			
Enclosure type	75 dB Sound Attenuating			
(Sound Atten., Weatherproof, None)				

** Sized per manufacturer recommendations to meet intent of plans and specifications, codes, and environmental conditions at location of installation. Please highlight any deviations from drawings and specifications.

END OF SECTION

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SECTION 16250

AUTOMATIC TRANSFER SWITCH

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. The Contractor shall supply the automatic transfer switch (ATS) as specified herein.
- B. The ATS scope of work includes:
 - 1. Providing and installing one automatic transfer switch of rating shown on Contract Drawings.
 - 2. Submittal data and drawings.
 - 3. Startup assistance.
 - 4. Factory and field testing.
 - 5. Operation and maintenance manuals.
 - 6. Warranty of all components.
- C. Startup and configuration of ATS with installed voltages and loads.
- D. As required under Electrical Specifications [Factory and Field Testing], furnish all required labor, materials, safety equipment, transportation, test equipment, incidentals and services to perform factory and/or field testing.

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Factory and Field Testing]
- C. Project Drawings

1.03 SUBMITTALS REQUIREMENTS

- A. Provide Submittals as specified in Electrical Specifications [Electrical General, Submittal Requirements].
- B. Include a record of each parameter available to be changed by the user. The list shall include factory defaults and space for entered values.

1.04 OPERATION AND MAINTENANCE INFORMATION

- A. Provide operation and maintenance information as specified in Electrical Specifications [Electrical General, Operating and Maintenance Information].
- B. Include a record of each ATS parameter setup during startup and testing and place a copy of setting in each O & M manual.

PART 2: PRODUCTS

2.01 AUTOMATIC TRANSFER SWITCH

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A. General:

1. The ATS shall be UL listed in accordance with UL 1008 and be labeled in accordance with that standard's 1½ and 3 cycle, long-time ratings. ATSs which are not tested and labeled with 1½ and 3 cycle (any breaker) ratings and have series, or specific breaker ratings only, are not acceptable.
2. The ATS shall be rated to close on and withstand 42,000 RMS symmetrical short circuit amperes at the ATS terminals or otherwise shown. Provide overcurrent protection as shown on the Contract drawings.
3. The ATS manufacturer shall be certified to ISO 9001 International Quality Standard and the manufacturer shall have third party certification verifying quality assurance in design/development, production, installation and servicing in accordance with ISO 9001.
4. ATS types utilizing components of molded-case circuit breakers, contactors, or parts thereof, are not acceptable.
5. The switch assembly shall be installed in a NEMA enclosure located as shown on Contract drawings.
6. The automatic transfer switch shall be an ASCO Model 7000, with options to meet specified requirements, or equal.

B. Switch Unit:

1. The transfer switch unit shall be electrically operated and mechanically held. The electrical operator shall be solenoid operated and only momentarily energized to minimize power consumption and heat generation.
2. The transfer switch shall feature a delayed transition mode. The switch shall remain in the neutral position (neither emergency nor normal) until the associated time delays have expired and allow the switch to complete the transfer.
3. The switch shall be 3 pole double-throw with inherently interlocked construction. A solid neutral shall be provided for all systems.
4. Wide contact gaps shall be provided to insure positive isolation of the normal and emergency power sources.
5. The switch shall be fully rated for amperage shown on Contract Drawings, for switching all types of loads including induction motors. The ratings shall apply to the voltage and mounting arrangement as shown in the drawings.
6. The main power contacts shall have silver alloy contact construction featuring a wiping action each time the switch is operated. Arc chutes shall be utilized to contain the inherent spark created when switching

under load.

7. The main contact design shall allow repeated making and breaking of rated full load current, with a combination of motor and other loads and without damage or undue wear to the contacts.
8. All main power contacts and auxiliary contacts shall be mechanically driven from a common actuator shaft.
9. The bus shall be constructed of silver plated copper.
10. Inspection of all contacts, linkages and moving parts shall be possible from the front of the switch without disassembly of operating linkages and without disconnection of power conductors.
11. All switch and relay contacts, coils, mechanical linkages, and control elements shall be serviceable or removable from the front of the mounted switch or accessory assembly without removal of the switch or assembly from the compartment and without disconnection of the power cables or control wiring.
12. The switch shall have a manual operating handle for maintenance purposes.
13. Compression screw type solder-less terminals or lugs shall be provided for connecting all external line & load power cables and control wiring. All connections shall be accessible from the front without removal of internal components.
14. A terminal strip shall be provided for terminating all control wiring. All terminals shall be numbered with machine printed lettering matching the wire number of the terminated wire.
15. All control wiring shall have permanent identification at each point of connection. Wire identification shall be by machine printed numbered wiring sleeves. Electrically common wires shall have the same wire number. Electrically different wiring shall have unique wire numbers.
16. Control wiring shall be neatly bundled and secured in place by plastic cable ties. Wiring shall be protected with plastic spiral wrap where it crosses over a hinge to the door.

C. ATS CONTROL PANEL

1. A control panel shall be provided to direct the operation of the transfer switch. The modules sensing and logic shall be controlled by a built-in microprocessor. Control panels that do not utilize microprocessor electronics to control the operation of the switch are not acceptable.
2. A four line, 20 character LCD display and keypad shall be an integral part of the controller for viewing all available data and setting desired operational parameters. Operational parameters shall also be

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available for viewing and limited control through the serial communications input port.

3. The controller shall be connected to the transfer switch by an interconnecting wiring harness. The harness shall include a keyed disconnect plug to enable the controller to be disconnected from the transfer switch for routine maintenance.
 - a. Sensing and control logic shall be provided on multi-layer printed circuit boards.
 - b. The panel shall be enclosed with a protective cover and be outer door or deadfront mounted such that it may be operated with the door closed for safety and ease of maintenance.
4. A single controller shall provide twelve selectable nominal voltages for maximum application flexibility and minimal spare part requirements. Voltage sensing shall be true RMS type and shall be accurate to $\pm 1\%$ of nominal voltage. Frequency sensing shall be accurate to $\pm 0.2\%$.
 - a. The under-voltage of each phase of the normal source shall be monitored, with pickup adjustable from 85% to 100% of nominal and the dropout adjustable from 75% to 98% of pickup setting, both in increments of 1%. These adjustments shall be factory set at 85% dropout, and 90% pickup.
 - b. The voltage of each phase of the emergency source shall be monitored, with pickup adjustable from 85% to 100% of nominal. This adjustment shall be factory set at 95% pickup.
 - c. Frequency sensing of the emergency source shall be provided, with pickup adjustable from 90% to 100% of nominal. This adjustment shall be factory set at 97% pickup.
 - d. The control panel shall meet or exceed the voltage surge withstand capability in accordance with IEEE Standard 472-1974 (ANSI C37.90a 1974) and the withstand voltage test in accordance with the proposed NEMA Standard ICS1-109.21.
5. The transfer switch control panel shall be capable of operating over a temperature range of -20 to +60 degrees C.
6. The transfer switch shall be provided with advanced in-phase algorithm which measures the frequency difference between the two sources and initiates transfer at appropriate phase angles to minimize disturbances from transferring motor loads.
7. The control panel shall include the following field adjustable time delays:
 - a. Time delay to override momentary normal source outages, adjustable from 0 to 5 minutes. This adjustment shall be field set to place emergency generator on-line in 1 minute.
 - b. Transfer to emergency time delay for controlled timing of load transfer to emergency, adjustable from 0 to 5 minutes. This adjustment shall be field set switch position in 5 seconds after power has stabilized.

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- c. Emergency source failure time delay to ignore momentary transients during initial generator set loading, adjustable from 0 to 6 seconds. Set at 2 seconds.
 - d. Retransfer to normal time delay, adjustable 0 to 60 minutes. This adjustment shall be factory set at 5 minutes. The time delay is automatically bypassed if the emergency source fails and normal source is acceptable.
 - e. Unloaded running time delay for emergency engine generator cooldown, adjustable from 0 to 60 minutes. This adjustment shall be factory set at 5 minutes.
 - f. Delayed transition time delay for setting the dead time when all power is removed from the load side of ATS, adjustable 0 to 5 minutes. Set at 1 minute.
 - g. Generator Exercise Timer: Timer provided for operator adjustment of day of week, time of day and run duration for exercising the generator under operating loads by activating the automatic transfer switch. . Timer shall be mounted on the ATS outer deadfront door.
 - h. The controller shall provide an integral engine exerciser. The timer shall be field set by the Contractor with date and time during training. The engine exerciser shall allow the user to program up to seven different exercise routines. For each routine, the user shall be able to:
 - 1) Enable or disable the routine.
 - 2) Enable or disable transfer of the load during routine.
 - 3) Set the start time of day, day of week, week of month, alternate or every time start, duration of run.
 - 4) At the end of the specified duration the switch shall transfer the load back to normal and run the generator for the specified cool down period. A 10-year life battery that supplies power to the real time clock in the event of a power loss will maintain all time and date information.
8. The controller shall commit-to-start engine which requires the engine to reach proper output and run at least the duration of the cooldown setting, regardless of whether the load is transferred.
9. Provide interface relays or main switch follower contacts to comply with I/O interface requirements as defined in the P&ID diagram. Interfacing relays shall be industrial grade plug-in type with dust covers. Interface connections shall be wired to backpan terminal blocks. At minimum, the switch shall have the following unused I/O contacts available:
- a. Switch in Normal – SPDT rated 10 amps, 120 VAC
 - b. Switch in Emergency – SPDT rated 10 amps, 120 VAC
 - c. Engine starting contact -- DPDT gold-flashed contacts rated 10 amps, 32 VDC
 - d. Emergency Power available – SPDT rated 10 amps, 120 VAC
 - e. Normal Power available – SPDT rated 10 amps, 120 VAC

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10. Terminals shall be provided for a remote contact which opens to signal the ATS to transfer to emergency and for remote contacts which open to inhibit transfer to emergency and/or retransfer to normal.
11. Communications – The controller shall include a communications module for interface to the PLC and SCADA. All settable parameters and instantaneous operational registers shall be accessible from the communications port.
 - a. Type
 - 1) Modbus TCP (Schneider Automation Standard)
 - b. Command and Metering registers to include:
 - 1) Switch position status normal or emergency
 - 2) Setpoints, timers, delays, voltage levels, etc.
 - 3) 3 phase voltage (normal and emergency)
 - 4) Normal and Emergency voltage available
 - 5) Fault conditions
 - 6) Test, load, no-load.
 - 7) Others as available.
12. Provide separate LED signal lights with nameplates indicating the following:
 - a. Utility power is available (green)
 - b. Generator power is available (red)
 - c. ATS is connected to Utility source (green)
 - d. ATS is connected to the Generator source (red)
 - e. ATS in neutral position (wht)
13. A three position momentary-type test switch shall be provided for the test / automatic / reset modes:
 - a. Test: simulate normal source failure
 - b. Automatic: normal operation
 - c. Reset: bypass the time delays on either transfer to emergency or retransfer to normal.
14. All adjustments shall be field adjustable without the use of tools, meters, power supplies, or special test equipment and can be made safely without personal exposure to live parts
15. Each adjustment resolution shall be settable within minimum increments of 1%.
16. Repetitive accuracy of timer, voltage and frequency settings over a temperature range of -20°C to 70°C shall be within $\pm 2\%$.
17. The control panel programming shall be lockable via password protection.
18. The wire harness for connection of the control panel to the transfer switch shall have sufficient length to reach between the mounting

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locations shown on the Contract drawings.

19. Provide the following displays on the controller:
 - a. Event log to display 99 logged events with the time and date of the event, event type and event reason.
 - b. Total number of ATS transfers.
 - c. Number of ATS transfers caused by power source failures.
 - d. Total number of days ATS has been in operation.
 - e. Total number of hours that the normal and emergency sources have been available.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].

3.02 FIELD ASSISTANCE

- A. Testing, checkout and start-up of the ATS equipment shall be performed under the technical direction of a factory trained authorized manufacturer representative.
 1. The setup and programming of the ATS shall be provided by a factory-trained representative who is authorized by the ATS manufacturer to perform the startup. This setup and programming shall be done prior to and during the first application of power.
 2. Provide testing as specified in Electrical Specifications [Factory and Field Testing].
- B. Provide 1 hour of "ATS Setup" Training on operating and maintenance procedures.

3.03 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

END OF SECTION

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SECTION 16430

LOW VOLTAGE SWITCHBOARD

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. This section applies to specific switchboards rated 600 volts and below.
- B. Provide Switchboard(s) (SWBD) as specified herein and shown on the drawings.
 - 1. The System Integrator shall perform and be responsible for procurement, submittals, shop drawings, interconnection drawings, factory testing, and all control wiring for the SWBD. System Integrator is defined in Electrical Specifications [Electrical General].
- C. All wiring, wire color codes, wire labeling and terminal blocks within SWBD shall be as specified in Electrical Specifications [Low Voltage Wire & Data Cable].
- D. The SWBD scope of work includes:
 - 1. Providing SWBD structure and all internal components.
 - 2. Installation of the SWBD on concrete pad per details.
 - 3. Submittal data and drawings.
 - 4. Startup and configuration of SWBD internal components.
 - 5. Factory and field testing.
 - 6. Operation and maintenance manuals.
 - 7. Warranty of all components.
 - 8. Seismic Anchorage Design Calculations and conforming installation.
 - 9. Conduit – support systems, wire, and grounding system, for equipment interconnection, and operation.
 - 10. System calibration, testing and documentation.
- E. Electrical Specifications [Factory and Field Testing]. Furnish all required labor, materials, safety equipment, transportation, test equipment, incidentals and services to perform factory and/or field testing.
- F. All electrical equipment and materials, and methods - including installation, calibration, and testing - shall conform to the applicable codes and standards listed in this and other Sections. All electrical materials and work shall conform to published standards of the National Electric Code (NEC), Institute of Electrical and Electronic Engineers (IEEE), and Underwriters Laboratories Inc (UL).

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Low Voltage Wire & Data Cable]
- C. Electrical Specifications [Automatic Transfer Switch]
- D. Electrical Specifications [Panelboard and Power Transformer]
- E. Electrical Specifications [Factory and Field Testing]

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1.03 SUBMITTALS REQUIREMENTS

- A. Provide Submittals as specified in Electrical Specifications [Electrical General, Submittal Requirements].
- B. Include a record of each configurable parameter available to be changed by the user for internal components. The list shall include factory defaults and space for entered values for each configurable component.

1.04 OPERATION AND MAINTENANCE INFORMATION

- A. Provide operation and maintenance instructions as specified in Electrical Specifications [Electrical General].

PART 2: PRODUCTS

2.01 SWITCHBOARD

- A. General:
 - 1. The Switchboard shall be Cutler Hammer, Square D or approved equal.
 - 2. The Switchboard (SWBD) shall be built and tested in accordance with:
 - a. NEMA Standards
 - b. ANSI
 - c. Underwriters Laboratories, Inc.
 - 3. Switchboard enclosure shall be NEMA rated as shown in the drawings.
- B. Metering Panel:
 - 1. Metering panel shall comply with Roseville Electric Standards.
 - 2. Provide metal enclosed, front accessible, self contained utility metering panel. Voltage, phase, AIC and continuous amperage rating shall be as shown on Contract Drawings. Panel will include meter socket, factory installed main breaker(s) and test by-pass facility.
 - 3. Design utility entrance and termination and other features per NEC, local codes, and serving Utility requirements.
 - 4. Enclosure shall be NEMA 3R construction for underground utility service. Enclosure shall be manufactured from galvanized 16 ga. (min) sheet steel. The enclosure shall be finished with ANSI 61 gray enamel paint. Provide pad mount, cabinet per installation detail.
 - 5. Utility metering switchboard shall be Cutler Hammer Pow-R-Line, Tesco Metering Switchboard or equal.
- C. Switchboard:
 - 1. Switchboard shall be front accessible with group mounted, buss

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connected circuit protective devices. Where provisions for future circuit protective devices are required, space for the device, corresponding vertical buss, device connectors and the necessary mounting hardware shall be supplied.

2. Distribution section shall meet all requirements per NEC, local codes, and as defined in the drawings.
3. Buss shall be copper. Aluminum buss is not equal to copper buss. Furnish buss mounted cable lugs sized for cabling that is required to be directly buss connected.
4. Buss shall, 3 phase, 4 wire, 480 volt, 65,000 AIC minimum symmetrical (or as shown otherwise in the drawings).
5. Power buss:
 - a. Continuous amperage rating at least equal to the main circuit breaker or the power source and shall be braced to withstand stresses resulting from the maximum short-circuit current available.
 - b. Horizontal bus shall extend through all sections of the switchgear unless shown otherwise in the drawings with vertical connections to circuit breakers in each section.
 - c. Buss shall be mounted on heavy-duty insulated glass polyester supports, and main bus joints shall be bolted using a minimum of two bolts.
 - d. Shipping splits and provisions for future bus extensions shall have tin-plated bolted connections.
6. Neutral bus, when specified or required, shall have the same capacity as the main bus.
7. Ground buss shall be rated per NEC relative to the power buss amperage rating and shall extend the entire length of the switchboard.

D. Molded Case Circuit Breakers:

1. General:
 - a. Circuit breakers and motor circuit protectors shall be manufactured by Eaton Cutler-Hammer, Square D, G.E., Siemens, or equal.
 - b. All circuit breakers greater than 400A and 480V shall be provided with arc flash reduction feature.
 - c. Circuit breakers shall be the bolt-on type.
 - d. Multiple-pole circuit breakers shall be designed so that an overload on one pole automatically causes all poles to open.

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The use of tandem or dual circuit breakers in a normal single-pole space to provide the number of poles or spaces specified are not acceptable.

- e. Molded case circuit breakers shall be operated by a single toggle-type handle and shall have a quick-make, quick-break switching mechanism. An automatic trip of the breaker shall be clearly indicated by the handle position. Contacts shall be non-welding silver alloy and have flash reduction arc chutes. A push-to-trip button on the front of the circuit breaker shall provide a local manual means to exercise the trip mechanism.
- f. Minimum interrupting capacity:
 - 1) 480 volt circuit breaker shall have a minimum interrupting capacity of 42,000 amperes.
 - 2) 120 or 208 or 240 volt breaker shall have a minimum interrupting capacity of 22,000 amperes
- g. Circuit Breakers less than 400 volt shall have thermal-magnetic (TM) trip units and inverse time-current characteristics unless protecting full voltage or solid state reduced voltage motor starters, 15kva or larger transformer secondary, or as specifically shown on drawings.
- h. Circuit breakers shall be UL listed for series application.
- i. Where indicated circuit breakers shall be current limiting.
- j. Where indicated on drawings, provide UL listed circuit breakers for continuous duty at 100% of their ampere rating in the intended enclosure.

2. TRIP UNIT

- a. Each molded case circuit breaker microprocessor-based tripping system shall consist of three (3) current sensors, a trip unit and a flux-transfer shunt trip. The trip unit shall use microprocessor-based technology to provide the adjustable time-current protection functions. True RMS sensing circuit protection shall be achieved by analyzing the secondary current signals received from the circuit breaker current sensors, and initiating trip signals to the circuit breaker trip actuators when predetermined trip levels and time-delay settings are reached.
- b. Interchangeable rating plugs shall establish the continuous trip ratings of each circuit breaker. Rating plugs shall be fixed-type. Rating plugs shall be interlocked so they are not interchangeable between frames, and interlocked such that a breaker cannot be closed and latched with the rating plug removed.
- c. System coordination shall be provided by the following microprocessor-based time-current curve shaping adjustments:

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- 1) Adjustable long-time setting (set by adjusting the trip setting dial to an amount not to exceed rating plug)
 - 2) Adjustable short-time setting and delay with selective flat or I^2t curve shaping,
 - 3) Adjustable instantaneous setting
 - 4) Adjustable ground fault setting and delay with selective flat or I^2t curve shaping.
- d. The microprocessor-based trip unit shall have both powered and unpowered thermal memory to provide protection against cumulative overheating should a number of overload conditions occur in quick succession.
- e. Furnish internal ground fault protection with adjustable settings. Provide neutral ground fault sensor for four-wire loads.
- f. Breakers shall have built-in test points for testing the long-time delay, instantaneous, and ground fault functions of the breaker by means of a test set.

E. Space Heaters:

1. Outdoor rated switchgear shall be provided with 120 volts AC thermostatically controlled space heaters. Heater wiring shall be to terminal blocks for connection to external power source. One heater shall be provided in each vertical breaker section. Heaters shall have guards to prevent accidental contact with power or control wiring.

F. Key Interlocks:

1. Key interlocks shall be provided as shown on the drawings. The switchgear manufacturer shall be responsible for coordinating interlocks for switchgear main circuit breakers interlocked with generator circuit breakers. Key interlocks shall be as manufactured by Kirk Key Interlock Company, or equal.

G. Surge Protective Device (SPD)

1. SPD shall be suitable Service entrance location per ANSI/IEEE C62.41, IEEE C62.45, and UL1449 3rd edition and tested according to IEEE C62.44 as Secondary Surge Arrestor.
2. Unit shall be sealed and not allow vapors from entering the switchboard enclosure after a voltage surge event.
3. Modes of protection – Line to Line, Line to Ground, Line to Neutral (as applicable). Voltage, phase and neutral connections per one-line diagram. Current surge capacity shall be 60,000 amps per mode minimum
4. The SPD shall be factory installed inside the switchboard during

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assembly by the original equipment manufacturer. The OEM design shall be integral to the design of the switchgear with special paneling and cutouts specifically designed for unit mounting.

5. The SPD connections shall be located as close as possible to the load side of main disconnect device and ground/neutral bar.
6. The SPD shall have integral 30-amp disconnect and fuses. Service of the SPD assembly, fuses or other serviceable components shall be from front access of the switchboard and shall not require disassembly of switchboard panels to repair or replace parts.
7. SPD shall be Cutler-Hammer Clipper, Current Technology TransGuard or equal.

H. Power Monitor:

1. Provide a microprocessor based line of multifunction, power and energy meters. The meter device shall be UL listed. All meters shall have the following ratings, features, and functions; unless a specific meter type is designated.
 - a. Meter shall be designed for Multifunction Electrical Measurement on 3 phase power systems. The Meter shall support 3-Element Wye, 2.5 Element Wye, 2 Element Delta, 4 wire Delta systems.
 - b. Meter surge withstand shall conform to ANSI C62.41 (6KV)
 - c. The meter shall be user programmable for voltage range to any PT ratio.
 - d. The meter shall have a burden of 1 Mega Ohm, 0.014W at 120 Volts.
 - e. The meter shall accept a direct voltage input range of up to 576 Volts Line to Neutral, and a range of up to 721 Volts Line to Line.
 - f. Meter shall accept a current input of up to 11 amps continuous. Start up current for a 5 Amp input shall be no greater than .005 Amps.
2. Power meter shall be capable of a dual input method for current inputs. As standard the meter shall be designed to allow the CT circuit to pass directly through the meter without any physical termination on the meter, ensuring the meter cannot be a point of failure on the CT circuit. As an option where indicated on the drawing or required for the application, provide additional termination pass-through bars, allowing the CT leads to be terminated on the meter. The meter must be capable of supporting both termination methods.
3. The meter shall have the following additional ratings and features:

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- a. Fault Current Withstand shall be 100 Amps for 10 seconds, 300 Amps for 3 seconds, and 500 Amps for 1 second.
 - b. Meter shall be programmable for current to any CT ratio. The use of DIP switches for selecting fixed ratios shall not be acceptable
 - c. Meter shall have a maximum burden of 0.005VA per phase, at the maximum at 11 Amperes continuous input.
 - d. Meter to accept a pass through wire gauge dimension of 0.177" / 4.5 mm.
4. The meter shall have an accuracy of +/- 0.1% or better for volts and amps, and 0.2% for power and energy functions. The meter shall meet the accuracy requirements of IEC687 (class 0.2%) and ANSI C12.20 (Class 0.2%).
- a. The meter shall provide true RMS measurements of voltage, phase to neutral and phase to phase; current, per phase and neutral.
 - b. The meter shall provide sampling at 400+ samples per cycle on all channels measured readings simultaneously.
 - c. Type meter shall provide total % THD (Total Harmonic Distortion) Monitoring to the 40th order for Voltage and current per phase, and shall provide Volts, Amps, kW, kVAR, PF, kVA, Frequency., kWh, kVAh, kVARh and 1 KYZ pulse output and limit exceeded alarms.
5. The meter shall include a three-line, bright red, .56" LED display.
- a. The meter shall fit in both DIN 92mm and ANSI C39.1 Round cut-outs.
 - b. The meter must display a % of FULL SCALE on the front panel to provide an analog feel. The % FULL SCALE shall have not less than 10 segments.
6. The meter shall be available in transducer only version, which shall not include a display. The transducer version shall mount directly to a DIN rail.
7. The Transducer portion of the meter shall be capable of RS485 Modbus communications.
8. Meter shall be a traceable revenue meter, which shall contain a utility grade test pulse allowing power providers to verify and confirm that the meter is performing to its rated accuracy.
9. The meter shall include 1 independent communications port on the back, with advanced features.

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- a. The port shall provide Modbus TCP/IP protocol.
- 10. The meter shall be capable of operating on a power supply of 90 to 265 Volts AC and 100 to 370 Volts DC. Universal Power AC/DC Supply shall be available. An option shall also be available to operate on a power supply from 18-60 VDC.
 - a. Meter AC/DC power supply shall accept burden of 10VA max.
- 11. Meter shall provide update rate of 100msec for Watts, Var and VA. All other parameters shall be 1 second.
- 12. The meter shall have I/O and communication expandability through two Option card slots on the back.
 - a. The cards shall be capable of being installed in the field, without removing the meter from installation.
 - b. The meter shall auto-detect the presence of any I/O Option cards.
 - c. The Option card slots shall accept I/O cards in all of the following formats: Four channel bi-directional 0-1mA Output Card; Four Channel 4-20mA Output Card; Two Relay Outputs/2 Status Inputs Card; Four Pulses/4 Status Inputs Card.
 - d. The Option card slots shall accept communication cards in the following format: 100BaseT or Fiber Optic Card Ethernet Modbus TCP.
 - e. The meter shall be capable of accepting any combination of up to two cards.
- 13. Operating temperature shall be (-20 to +70) degrees C.
- 14. The meter faceplate shall be rated NEMA 12.
- 15. Power Monitor shall be Electro Industries/GaugeTech Shark200 with INP100S 100BaseT Ethernet (Modbus TCP) and RO1S Relay Output expansion cards, or equal.

I. Current Transformers

- 1. Furnish mounted (preferable) or unmounted current transformers based on space allocated and installation requirements. The current transformer shall have wire leads or binding posts and ratio as shown on the drawings. The accuracy shall be metering accuracy class 0.6 at a minimum burden at 60 hz shall be 2.5 VA and as required to meet specified accuracy of device(s) fed.

PART 3: EXECUTION

3.01 WORKMANSHIP

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- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship] and as specified herein.

3.02 INSTALLATION

- A. Vertical sections shall be mounted on steel channel sills continuous on two sides. The steel channel sills shall be heavy duty to meet the specific seismic requirements of this project location. These sills shall be mounted on the concrete pad to be installed per the Contract Drawings.
- B. Conduit entering Switchboard shall be stubbed up 1" into the bottom horizontal wireway (typically) directly below the vertical section in which the conductors are to be terminated.
- C. Base of Switchboard shall be adequately grouted, caulked or sealed to prevent the entry of insects and rodents.

3.03 FIELD ASSISTANCE

- A. Provide field testing as specified in Electrical Specifications [Electrical General, Testing].

3.04 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

END OF SECTION

SECTION 16450

GROUNDING

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. Labor, materials, equipment, tools, safety gear, test equipment, incidentals, services, and transportation for a complete electro-mechanical installation as shown on the Drawings, included in these Specifications, or as can be reasonably implied from project descriptions.
- B. The scope of work includes:
 - 1. Furnish and install grounding system required by drawings, or if not shown or defined, as required by Article 250 of the NEC. Ground conductors shall be sized for the protective device, minimum.
 - 2. Furnish and install conduits, junction boxes, underground boxes, and associated hardware. Provide hardware, conduit, fittings, and other parts for a complete grounding installation.
 - 3. Installations shall be designed and installed with components meeting the NEMA area designation.
- C. Work includes that specified in Electrical Specifications [Electrical General].

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Low Voltage Wire & Data Cable]
- C. Project Drawings

1.03 QUALIFICATIONS

- A. Material furnished under this specification shall be installed by qualified installers meeting requirements specified in Electrical Specifications [Electrical General, Qualifications].

1.04 SUBMITTAL REQUIREMENTS

- A. Provide submittals and drawings as specified in Electrical Specifications [Electrical General, Submittal Requirements].
- B. Submit manufacturer's product information for connections, clamps, rods, terminals, and grounding system components.

PART 2: PRODUCTS

2.01 GROUNDING SYSTEM

- A. General

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1. Grounding conductors shall be sized as shown on the drawings or in accordance with NEC table 250, whichever is larger.
2. Components of the grounding electrode system shall be manufactured in accordance with UL 467 - Standard for Safety Grounding and Bonding Equipment.

B. Grounding System

1. The utility service ground shall be tied to a building ground grid consisting of a "UFER" and/or ground rod type grounding system.
2. The UFER shall consist of minimum 25 feet minimum of code sized bare copper wire conductor laid at 3 foot nominal depth encased with concrete or ground or as detailed on the Contract Drawings. UFER ground shall be located where soil moisture content will be maximized.
3. Ground enhancement material shall be permanent and be designed to lower earth resistance in all soil conditions. Once set, material shall have resistivity of not more than 20 ohm-cm resistance. Material shall be set by mixing it with water to form a slurry and shall not dissolve or decompose once cured. Ground enhancement material shall be Erico Ground Enhancement Material (GEM), Lyncole XIT, or equal.
4. The main ground bonding wire from the ground rod shall extend up into the utility service panel with readily visible UL approved "ground clamp" attached to the ground bus.
5. Install bare copper ground bond wires from the UFER ground to the various locations shown on the drawings.

C. Raceway Grounds

1. Metallic conduits shall be assembled to provide a continuous ground path. Metallic conduits shall be bonded using insulated grounding bushings.

D. Equipment and Enclosure Grounds

1. Electrical and distribution equipment shall be connected to the grounding system. Cables shall be sized as specified.

E. Components

1. Ground rod shall be $\frac{3}{4}$ " x 10 ft solid steel with 10-mil copper-cladding.
2. Provide ground well enclosures for all outdoor ground rods. Furnish Christy type F8 or equal unless otherwise shown on the drawings.
3. Ground rod clamps shall be bolt-on type as manufactured by O-Z Gedney type GRC, or equal.
4. Grounding and bonding wires shall be installed in all PVC conduits and

nonmetallic raceways and connected to the ground bus and all equipment.

5. Each electrical enclosure shall have a copper ground bus. Screw type fasteners shall be provided on all ground busses for connection of grounding conductors. Ground bus shall be a Challenger GB series, ILSCO CAN series or equal.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in specified in Electrical Specifications [Electrical General, Workmanship].

3.02 INSTALLATION

- A. Grounding System:
 1. Install all products per Electrical Specifications [Electrical General, Installation].
 2. Each nonmetallic conduit shall contain a code sized grounding conductor.
 3. The system neutral conductor and all equipment and devices required to be grounded by the National Electrical Code shall be grounded in a manner that satisfies the requirements of the National Code.
 4. The system neutral (grounded conductor) shall be connected to the system's grounding conductor at only a single point in the system. This connection shall be made by a removable bonding jumper sized in accordance with the applicable provisions of the National Electrical Code if the size is not shown on the Drawings. The grounding of the system neutral shall be in the enclosure that houses the service entrance main overcurrent protection.
 5. Utilize mechanical connections in accessible locations and exothermic connections in non-accessible or buried locations.
 6. The secondary on all transformers shall be grounded.
 7. All raceway systems, supports, enclosures, panels, motor frames, and equipment housings shall be permanently and effectively grounded.
 8. Install insulated grounding conductor with feeders and branch circuit conductors in conduits. Size grounding conductors in accordance with NEC. Install from grounding bus of serving panel to ground bus of served panel, grounding screw of receptacles, lighting fixture housing, light switch outlet boxes or metal enclosures of service equipment. Ground conduits by means of grounding bushings on terminations at panelboards and distribution panels with 12ga. conductor to grounding bus

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9. All receptacles shall have their grounding contact connected to a grounding conductor.
10. Branch circuit grounding conductors for receptacles or other electrical loads shall be arranged such that the removal of a lighting fixture, receptacle, or other load does not interrupt the ground continuity to any other part of the circuit.
11. Attachment of the grounding conductor to equipment or enclosures shall be by connectors specifically provided for grounding. Mounting, support, or bracing bolts shall not be used as an attachment point for ground conductors.
12. Install grounding electrode conductor and connect to reinforcing steel in foundation footing. Electrically bond building steel to ground system. Bond metal siding not attached to grounded structure.

B. Ductbanks

1. Provide #4/0 AWG bare, stranded ground conductor in approximately the center of the ductbank where shown on plans and for all ductbanks containing cables rated 2kV or greater
2. Ground wire, where required, shall be strapped to a conduit every 5 feet.

3.03 FIELD QUALITY CONTROL

A. Inspections:

1. Engineer shall inspect ground system prior to cover.

B. Testing:

1. Complete applicable test forms if provided in testing specifications [Factory and Field Testing]. If form is not provided, furnish results on a vendor standard form.
2. Test each grounding connection to determine the ground resistance. The grounding test shall be IEEE 81.2 and NETA 7.13. The current reference rod shall be driven at least 100 feet from the ground rod or grid under test. The measurements shall be made at 10-foot intervals beginning 20 feet from the test electrode and ending 80 feet from it, in direct line between the ground rod or center of grid and the current reference electrode.

END OF SECTION

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SECTION 16470

PANELBOARD AND POWER TRANSFORMER

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. The Contractor shall supply panelboards and power transformers as specified herein and as shown in the Contract Drawings.
- B. The Contractor shall perform complete startup and testing services for the panelboard and power transformer per Electrical Specifications [Factory and Field Testing].
- C. Work includes that specified in Electrical Specifications [Electrical General].
- D. Reference drawings for panelboard and transformer location – electrical structures or stand-alone. If within electrical structures, the Contractor shall supply the electrical section with factory installed panelboard and transformer. If stand-alone, the Contractor shall install individual components with enclosures as specified herein.
 - 1. The quantity of breakers with size and number of poles as shown on panelboard schedules.
 - 2. Submittal data and drawings.
 - 3. Startup assistance.
 - 4. Panelboard testing.
 - 5. Operation and maintenance manuals.
 - 6. Warranty of all components of the panelboard and power transformer.

1.02 SUBMITTAL REQUIREMENTS

- A. Provide submittals and drawings as specified in Electrical Specifications [Electrical General, Submittal Requirements].
- B. Provide ratings and characteristics including voltage, temperature rise, KVA, efficiency, materials of construction, NEMA enclosure rating, voltage taps, and impedance.
- C. Provide catalog cuts for circuit breakers and devices.
- D. Submit panelboard schedule for approval.

1.03 OPERATION AND MAINTENANCE INFORMATION

- A. Provide operating instructions as specified in Electrical Specifications [Electrical General, Operating and Maintenance Instructions].

PART 2 – PRODUCTS

2.01 PANELBOARDS

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A. General

1. The Contractor shall furnish panelboards of a type indicated on the one-line Contract drawings and specified herein.
2. Furnish and install padlock lock-off attachment for each circuit breaker.
3. Panelboards shall comply with the applicable sections of UL, NEC, and NEMA and shall be Cutler Hammer Pow-R-Line, Square D, ITT or equal.
4. A machine-typed circuit directory with clear plastic cover shall be supplied mounted on the inside of door in a frame when equipment is shipped. Circuit directory shall be as approved in the Submittal.

B. Interiors

1. Interiors shall be completely factory assembled with bolt-on devices.
2. Main and feeder breakers shall include lockout padlock hasp suitable for frame size. Provide Cutler Hammer QLPB123PL, PLK1, or similar.
3. Full size insulated neutral bars shall be included. Neutral busing shall have a suitable lug for each outgoing feeder requiring a neutral connection.
4. Main bus bars shall be plated copper sized in accordance with UL standards to limit temperature rise on any current carrying part to a maximum of 50 degrees C above an ambient 40 degrees C maximum.
5. A copper ground and neutral bus shall be included in all panelboards with terminal screws.

C. Boxes

1. Provide minimum gutter space in accordance with the National Electric Code. Where feeder cables supplying the mains of a panel are carried through its box to supply other electrical equipment, the box shall be sized to include the additional required wiring space. At least four interior mounting studs with adjustable nuts shall be provided.

D. Trims

1. Provide a hinged door over all circuit breaker handles. Doors in panelboard trims shall not uncover any live parts. Doors shall have a catch, lock and trim.
2. Surfaces of the trim assembly shall be properly cleaned, primed and a finish coat of gray ANSI 61 or 49 or to Switchboards and MCCs.
3. Surface trims shall be same height and width as box for surface mount, and $\frac{3}{4}$ " (min) beyond box on all sides for flush mount.

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E. Panelboard Ratings

1. Panelboards shall have voltage, phase and short circuit (AIC) ratings as shown on the drawings.
2. Breakers shall be a minimum of 100 ampere frame. Breakers 15 through 100 amperes trip size shall take up the same pole spacing.
3. Panelboards shall be labeled with a UL short circuit rating. When series ratings are applied with integral or remote upstream devices, a label shall be provided. Series ratings shall cover all trip ratings of installed frames. It shall state the conditions of the UL series ratings including:
 - a. Size and type of upstream device
 - b. Branch devices that can be used
 - c. UL series short circuit rating

2.02 POWER TRANSFORMER

- A. The power transformer shall be ventilated dry type. Voltage and KVA ratings shall be as shown on the Contract Drawings. The transformer shall be as manufactured by Cutler Hammer, Jefferson, ACME, Square D, G.E., or equal.
- B. Transformer shall meet latest NEMA TP-1 and Energy Star efficiency standards.
- C. Coils shall be manufactured of electrical grade aluminum (if stand-alone) or copper (if within a MCC or Switchboard) and shall be adequately braced for short circuit ratings and defined in ANSI and NEMA standards.
- D. Transformers rated 31KVA and above shall have two 2½ percent taps above and below normal full capacity (ANFC and BNFC).
- E. The transformer shall carry full load continuously at rated voltage and frequency without exceeding the average temperature rise of 115°C above an ambient temperature of 40°C. Insulation shall be rated for 220°C (UL class 220°C).
- F. For transformers installed within electrical equipment, vibration isolators shall be installed between the transformer and its mounting surface to reduce case vibration and associated noise.
- G. For stand alone transformers, the transformer housing shall be securely fastened to the mounting surface with bolted connections sized appropriately to withstand seismic zone 4 forces.
- H. The transformer shall be finished with two coats of enamel to resist rust and corrosion.
- I. Transformers located inside electrical structures or enclosures shall be provided with adequate ventilation for heat removal as required.

- J. Transformer neutral shall be grounded in accordance with Article 250-26 and 450-10 of NEC and any applicable local ordinances. Installation and protection of the transformer grounding conductors and attachments shall be per NEC 250-24.

PART 3 – EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].
- B. Perform work to remedy non-compliant installations after inspection.

3.02 INSTALLATION

- A. Provide installation as recommended by the manufacturer and as specified in Electrical Specifications [Electrical General, Installation].

3.03 FIELD ASSISTANCE

- A. Provide testing as specified in Electrical Specifications [Factory and Field Testing].

3.04 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

END OF SECTION

SECTION 16481

VARIABLE FREQUENCY DRIVE

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. Provide each variable frequency drive as shown on elementary and one-line drawings. Variable frequency drive shall be provided with full speed bypass, harmonic conditioner, line and/or load reactor, RFI filter and/or other accessories where shown on The Drawings. All VFDs shall be of the same manufacturer.
 - 1. The System Integrator shall perform and be responsible for procurement, submittals, shop drawings, testing, and all control wiring for the VFD. System Integrator is defined in Electrical Specifications [Electrical General].
- B. Provide enclosure (and side mounted wire chase as required) for top or bottom feed conduit connection as shown in the drawings. Enclosure size shall not exceed the space allocated in the drawings for such use.
- C. Provide cooling/ventilation system, mounting hardware, associated components, devices, and field control stations. Some components may be specified in other Electrical Specifications such as terminal blocks, wire, buttons, etc.
- D. Installation of the VFD with components as specified in Electrical Specifications [Electrical General]. The VFD scope of work includes:
 - 1. Providing and installing VFD(s) of rating shown on The Drawings.
 - 2. Submittal data and drawings.
 - 3. Startup assistance.
 - 4. Factory and field testing.
 - 5. Operation and maintenance manuals.
 - 6. Warranty of all components.
- E. Startup and configuration of VFD with actual motor load.
- F. Electrical Specifications [Factory and Field Testing]. Furnish all required labor, materials, safety equipment, transportation, test equipment, incidentals and services to perform factory and/or field testing.

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Low Voltage Wire & Data Cable]
- C. Electrical Specifications [Factory and Field Testing]

1.03 SUBMITTALS REQUIREMENTS

- A. Provide Submittals as specified in Electrical Specifications [Electrical General,

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Submittal Requirements].

- B. Include a record of each VFD parameter available to be changed by the user. The list shall include factory defaults and space for entered values.

1.04 OPERATING AND MAINTENANCE INFORMATION

- A. Provide operation and maintenance instructions as specified in Electrical Specifications [Electrical General].
- B. Include a record of each VFD parameter setup during startup and testing and place a copy of setting in each O & M manual.

PART 2: PRODUCTS

2.01 GENERAL

- A. All equipment shall be designed for the service intended and shall be of rugged construction, of ample strength for all stresses which may occur during fabrication, transportation, erection, and continuous or intermittent operation. All equipment shall be adequately stayed and braced and anchored and shall be installed in a neat and workmanlike manner. Appearance and safety, as well as utility, shall be given consideration in the design of details. All components and devices installed shall be industrial grade and shall be of sturdy and durable construction suitable for long, trouble-free service. Light duty, fragile, and competitive grade devices of questionable durability shall not be used.
- B. The VFD is inclusive of the input stage, buss, output stage, input filters, output filters, and all other assemblies, boards, or conditioning equipment, that make up the entire VFD system. The VFD system is herein referred to simply as "VFD" and is not to be parsed in any way to meet a specification as a specific part or assembly where it cannot be met as a system.
- C. Products that are specified by manufacturer, trade name, or catalog number establish a standard of quality and do not prohibit the use of equal products of other manufacturers provided they are favorably reviewed by the Owner and/or Engineer prior to installation.
- D. Underwriter's Laboratories (UL) listing is required for all substituted equipment when such a listing is available for the first named equipment.

2.02 QUALITY

- A. All equipment and materials shall be new and the products of reputable suppliers having adequate experience in the manufacture of these particular items. For uniformity, only one manufacturer will be accepted for each type of product.
- B. All equipment shall be designed for the service intended and shall be of rugged construction, of ample strength for all stresses which may occur during fabrication, transportation, erection, and continuous or intermittent operation. All equipment shall be adequately stayed and braced and

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anchored and shall be installed in a neat and workmanlike manner. Appearance and safety, as well as utility, shall be given consideration in the design of details. All components and devices installed shall be standard items of industrial grade, unless otherwise noted, and shall be of sturdy and durable construction suitable for long, trouble-free service. Light duty, fragile, and competitive grade devices of questionable durability shall not be used.

- C. Products that are specified by manufacturer, trade name, or catalog number establish a standard of quality and do not prohibit the use of equal products of other manufacturers provided they are favorably reviewed by the Owner and/or Engineer prior to installation.
- D. Underwriter's Laboratories (UL) listing is required for all substituted equipment when such a listing is available for the first named equipment.

2.03 VARIABLE FREQUENCY DRIVE

- A. **This specification is based on Allen Bradey 755T, Schneider Altivar 680 with AFE (Active Front End Attenuation), Siemens Robicon W150CP or Eaton Cutler Hammer SVX9000 series with HCU2 (active harmonic filter), or equal.**
- B. The VFD shall be of the latest technology used to control and maintain a process variable (level, flow, pressure, speed, etc.) by varying the motor speed. The VFD shall be available from a single manufacturer in the horsepower range of 1 to 500 HP.
- C. Performance Requirements
 - 1. Harmonic Attenuation (applies to Ultra Low Harmonic (ULH) as shown in drawings)
 - a. The VFD shall have an active filter line supply unit which controls the low order harmonic current or 18 pulse rectifiers to reduce the harmonic current impressed on the incoming power feeder.
 - b. The input current to the VFD shall limit the total harmonic content to less than 5% of the VFD's rated input on any power system and under all operating conditions.
 - c. The VFD shall comply with IEEE 519 requirements.
 - 2. Open loop static speed regulation shall be 0.5 % to 1% of rated motor speed. When motor speed feedback is provided from a suitable encoder, closed loop speed regulation shall be 0.1% of motor nominal speed. Dynamic speed accuracy shall be less than 1%-sec with 100% torque step open loop and 0.5%-sec closed loop with 100% torque step. 2. Torque control response time shall be less than 10 ms with nominal torque. In the torque regulating mode, torque regulating accuracy open loop shall be +/- 5%; torque regulating accuracy closed loop shall be +/- 2%;

D. Ratings

1. The VFD shall employ a full wave rectifier to prevent input line notching and operate at a fundamental (displacement) input power factor of 0.98 at all speeds and nominal load.
2. The VFD efficiency shall be 97.5% or better at full speed and load. Efficiency is defined as the output power divided by the input power in terms of percentage. All internal system losses recognized.
3. Load - The VFD shall be designed to continuously operate the following motor/pump load:
 - a. Motor NEMA design B, squirrel-cage induction or specialty specific use motor per Mechanical Division Specification as shown in drawings.
 - b. Horsepower at full speed R.P.M. of submitted/approved motor.
 - c. Voltage, 230/460 VAC, three phase, 60 Hz.
 - d. Service factor, 1.15 S.F.
4. Input Power - The VFD shall be rated to continuously operate under the following input power conditions:
 - a. The Drive shall be rated to operate from 3-phase power at nominal voltage (208VAC to 600VAC, +10% /-15% as shown in drawings), 48Hz to 63Hz.
 - b. The overvoltage trip level shall be a minimum of 30% over nominal, and the undervoltage trip level shall be a minimum 35% under the nominal voltage.
 - c. Three phase, phase rotation insensitive.
 - d. Displacement power factor, 0.95 lagging at all loads and speeds above 10% rated load.
5. Output Power - The VFD shall be rated to continuously operate while providing the following output power conditions:
 - a. Voltage, 0 to 500 VAC.
 - b. Frequency, 3 to 60 Hz.
 - c. Continuous motor horsepower.
 - d. VFD amp output (minimum).
 - e. Continuous current - as shown in drawings or 115% of rated motor nameplate amps, whichever is higher.
 - f. Short term normal current, 110% of continuous rated current for a minimum duration of 1 minute per every 10 minutes running.
 - g. Short term heavy duty overload current, 150% of continuous rated current for a minimum duration of 1 minute per every 10 minutes running.
 - h. Waveform - sine coded PWM.
 - i. The drive's switching pattern shall be continually adjusted to provide optimum motor flux and avoid the high-pitched audible noise.
 - j. Diodes and transistors shall have a minimum withstand of

1,200 peak inverse voltage (PIV).

6. Environmental - The VFD shall be rated to continuously operate under the following environmental conditions:
 - a. Ambient temperature, 5°F to 122°F (-15°C to 50°C).
 - b. Altitude, no derating below 3,300 ft.
 - c. Relative humidity, 95% non-condensing.
 - d. The drive shall be protected from atmospheric contamination by chemical gasses and solid particles per IEC 60721-3-3, chemical gasses Class 3C2 and solid particles Class 3S2.
 - e. The drive shall be protected from vibration per IEC 60721-3-3 Class 3M4 (sinusoidal displacement 3.0 mm, 2Hz to 9Hz; acceleration 10m/s², 9Hz to 200Hz).

E. Protection - The VFD shall be provided with the following protection:

1. For each programmed warning and fault protection function, the Drive shall display a message in complete English words or Standard English abbreviations. The three (3) most recent fault messages along with time, current, speed, voltage, frequency and DI Status shall be stored in the Drive's fault history. The last ten (10) fault names shall be stored in Drive memory.
2. The Drive shall include internal MOV's for phase to phase and phase to ground line voltage transient protection.
3. Output short circuit withstand rating and ground fault protection rated for 100,000 AIC shall be provided per UL508C without relying on line fuses. Motor phase loss protection shall be provided.
4. The Drive shall provide electronic motor overload protection qualified per UL508C.
5. Protection shall be provided for AC line or DC bus overvoltage at 130% of max. rated or undervoltage at 65% of min. rated and input phase loss.
6. A power loss ride through feature will allow the Drive to remain fully operational after losing power as long as kinetic energy can be recovered from the rotating mass of the motor and load.
7. Stall protection shall be programmable to provide a warning or stop the Drive after the motor has operated above a programmed torque level for a programmed time limit.
8. Underload protection shall be programmable to provide a warning or stop the Drive after the motor has operated below a selected underload curve for a programmed time limit.
9. Over-temperature protection shall provide a warning if the power module temperature is less than 5°C below the over-temperature trip level.

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10. The VFD shall constantly monitor the load current with an electronic thermal overload relay and trip the drive on motor overload. The electronic overload relay shall be adjustable and compensate for the reduced cooling of the motor at reduced speeds. This protection provides an orderly shutdown should the motor's thermal capabilities be exceeded and eliminates the requirement for conventional motor overload relays.
- F. Digital programmer/controller –The VFD shall be equipped with a front mounted operator control panel (keypad) consisting of a backlit, alphanumeric, graphic display and a keypad with keys for Start/Stop, Local/Remote, Up/Down and Help. Two (2) Softkeys will be provided which change functionality depending upon the position within the parameter hierarchy or state of panel.
1. All parameter names, fault messages, warnings and other information shall be displayed in complete English words or standard English abbreviations to allow the user to understand what is being displayed without the use of a manual or cross-reference table.
 2. The Display shall have contrast adjustment provisions to optimize viewing at any angle.
 3. The control panel shall provide a real time clock for time stamping events and fault conditions.
 4. The control panel shall include a feature for uploading parameter settings to control panel memory and downloading from the control panel to the same Drive or to another Drive.
 5. All Drives throughout the entire power range shall have the same customer interface, including digital display, and keypad, regardless of horsepower rating.
 6. The keypad is to be used for local control, for setting all parameters, and for stepping through the displays and menus.
 7. The keypad shall be removable and insertable under Drive power, capable of remote mounting, and shall have its own non-volatile memory.
 8. Digital Programmer/Controller (HIM) shall be capable of remote door mounting. Cable for remote digital programmer/controller shall be supplied as shown in the drawings. The HIM shall be mounted and housed to maintain the NEMA 12 door rating.
 9. The standard operator panel shall provide a start-up, maintenance and diagnostic assistants that guides a new user through initial start-up and commissioning of the Drive as well as provide indications for maintenance and help to diagnose a fault. In addition, a PID assistant, Real-time Clock assistant, Serial Communications assistant, and Drive Optimizer assistant shall be included. A Drive Optimizer assistant permits the user to choose Drive set-up for low noise, drive & motor

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efficiency or motor control accuracy.

10. The door mounted human interface module (HIM) display shall be capable to view and adjust the following diagnostic and status indicators:
 - a. VFD Speed % or Frequency
 - b. Instantaneous overcurrent.
 - c. Ground fault.
 - d. Overtemperature.
 - e. Overvoltage.
 - f. Undervoltage.
 - g. Overload.
 - h. Overfrequency.
 - i. Amps.
 - j. Voltage.
 - k. Temperature.
 - l. Auxiliary Fault.
 - m. Phase loss.
 - n. Current limit.
 - o. Power and kilowatt hours
 - p. Power up delay.
 - q. Status of discrete inputs and outputs.
 - r. Values of analog input and output signals
 - s. Values of PID controller reference, feedback and error signals.
 11. Adjustments - The following setting ranges shall be provided and made independently accessible for operator adjustment:
 12. Speed/Torque control functions shall include:
 - a. Minimum speed/torque limits.
 - b. Maximum speed/torque limits.
 - c. Selection of up to seven (7) preset speed settings or external speed control
 - d. Two (2) independent built-in PID controllers to control a process variable such as pressure, flow or fluid level.
 - e. Two (2) analog inputs shall be programmable to form a reference by addition, subtraction, multiplication, minimum selection or maximum selection.
 13. Output control functions shall include:
 - a. Current and torque limit adjustments to limit the maximum Drive output current and the maximum torque produced by the motor. These limits shall govern the inner loop torque regulator to provide tight conformance with the limits with minimum overshoot.
 - b. A torque regulated operating mode with adjustable torque ramp up/down and speed/torque limits.
- G. Input and Output Terminations - The VFD shall have terminals for input and output cabling as defined in the Conduit and Wire Schedule as shown on the Contract Electrical Drawings.

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1. Provide power terminal blocks for motor lead connections where drive terminals are hard to reach or require drive cabinet disassembly to connect.
 2. Five (5) digital inputs, all independently programmable with at least twenty-five (25) input function selections. Inputs shall be designed for 120 volts AC input or as otherwise shown in the drawings. Input functions must include time delay start and hand and auto (Ethernet) control.
 3. Two (2) form C relay contact digital outputs, all independently programmable with at least thirty (30) output function selections. Relay contacts shall be rated to switch a maximum two (2) Amps rms continuous current at a maximum switching voltage of 30VDC or 250VAC. Function selections shall include indications that the drive is ready (no faults and in remote), running, and are addressable from Ethernet as users choice.
 4. Two (2) analog inputs, each selectable for 0VAC - 10VAC or 4mA - 20mA, and independently programmable with at least ten (10) input function selections. Analog input signal processing functions shall include scaling adjustments, adjustable filtering and signal inversion. If the input reference (4-20mA or 0-10V) is lost, the VFD shall give the user the option of the following: (1) stopping and displaying a fault, (2) running at a programmable preset speed, (3) hold the VFD speed based on the last good reference received, or (4) cause a warning to be issued, as selected by the user. The Drive shall be programmable to signal this condition via a keypad warning, relay output and/or over the serial communications bus.
 5. Two (2) analog outputs providing 0 (4) to 20mA signals. Outputs shall be independently programmable to provide signals proportional to at least twelve (12) output function selections including output speed, frequency, voltage, current and power.
 6. Provide I/O input and relay output expansion card(s) as needed to accommodate the I/O wiring as shown in the drawings. The option card shall be integrally mounted to the drive.
- H. Communications – The VFD shall include communications module for interface to the PLC. All settable parameters and instantaneous operational registers shall be accessible from the communications port.
1. Type
 - a. Modbus TCP (Schneider Automation Standard)
 2. Add-On Instructions
 - a. The VFD manufacturer must have an add-on instruction that is compatible with the PLC on this project. The add-on instruction provides a preconfigured message command to send and receive information from the drive. The add-on instruction must be a free download available from the manufacturer

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website at the time of bid and thereafter.

3. Command and Metering registers to include:
 - a. Digital input reads (giving status of inputs)
 - b. Digital output commands (to relay DOs)
 - c. 3 phase voltage and current
 - d. Power in KW, KWH and Power factor
 - e. Elapsed motor run time
 - f. Start/Stop
 - g. Running
 - h. Fault conditions
 - i. Heat Sink Temperature
 - j. Others as available.

I. Features - The VFD shall have the following features:

1. Connection of the three incoming line leads and three-motor leads shall be the only connections necessary for manual operation of the VFD unit. All other wiring shall be prewired at the factory and self-contained within the VFD unit. A 120 VAC control power transformer and other auxiliary power supplies shall be provided with the VFD for power to pilot lights, meters, relays, and miscellaneous devices specified to be supplied with the VFD. Lugs shall be provided for connection of all power leads; terminal blocks shall be provided for all other wiring. Relay logic, wiring and enclosure layout shall be equivalent to that shown on the Drawings.
2. The VFD shall be protected by a circuit breaker disconnect unless otherwise shown in the drawings. The disconnect shall be externally operated and shall have an operator mechanism that is an integral part of the enclosure. An operator mechanism shall be provided to allow padlocking the disconnect in the "off" position with up to two padlocks.
3. AC input fuses shall be provided on the line and/or load side of the VFD (if required by the manufacturer) to isolate the VFD power circuitry upon a fault condition.
4. The VFD shall be capable of sensing load outside of normal range. A User Load Curve with range settings shall be available to be configured. If the motor horsepower as a function of speed is not within a predefined range, then an alarm shall be set within a setpoint delay. The alarm may be configured to shut down the drive and/or set a digital output for connection to a indicating light or PLC. The intent of this alarm is to protect the machine or pump from operating with a broken shaft, or clog, or flow restriction, or similar condition.
5. Three (3) programmable critical frequency lockout ranges to prevent the VFD from operating the load continuously at an unstable speed.
6. Transient and surge voltage power line input protection shall be provided for the VFD through use of metal oxide varistors (MOVs), surge protective module, or other approved equal methods. Transient

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protection integral to the VFD shall be provided to a minimum of 10,000 volts, 50 joules without failure. The transient protection shall meet or exceed ANSI C7, 90-1971 and IEEE 472-1974 Standards without failure. Failure is defined as loss of components in the VFD including power semiconductors and fuses. The VFD shall be protected from the following, as a minimum, power line transients and recover to automatically restart and resume normal operation without posting a fault:

- a. Switching the primary of a power transformer.
 - b. Switching power factor correction capacitors "ON" and "OFF" line.
 - c. De-energization or energization of contactors, relays, and other power equipment from the power line.
 - d. Starting and stopping of other motors when powered from Utility.
7. The VFD shall not be affected by or generate excessive electro-magnetic interference (EMI). The VFD shall be provided with a radio interference filter (RIF) to meet the following requirements:
- a. The use of a 4 Watt hand-held VHF/UHF transceiver within three feet of the VFD with its doors closed shall not cause erratic operation, loss of configuration, or any other deviation from normal operation.
 - b. The worst case conducted and radiated EMI generated by the VFD shall not be enough to prevent the use of hand held VHF-UHF transceivers within three feet of the VFD with its doors closed.
8. Opening of the VFDs input switches, circuit breakers, or output contactors while the VFD is operating under load shall not result in damage to the VFD power or control circuit components.
9. The VFD shall be capable of starting and operating without a motor load connected.
10. Phase loss protection shall be provided to prevent single phasing of the motor load.
11. The VFD shall have an instantaneous electronic trip circuit to protect the VFD from output line-to-line and line-to-ground short circuits. Output line-to-line and line-to-ground short circuits shall not damage the VFD.
12. Automatic fault reset to automatically restart the drive after any type of fault condition. This automatic restart shall repeat up to three attempts. This automatic reset shall be provided to prevent a drive fault from completely locking out on isolated nuisance fluctuations. When the drive is locked out after its automatic reset attempts the operator shall be able to reset the VFD by a local or remote manual reset pushbutton. Fault lockout shall be indicated on the door

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mounted drive fail pilot light.

13. The VFD shall be capable of continued operation during an intermittent loss of incoming line power up to five cycles.
 14. The VFD shall automatically restart upon reapplication of power after a loss of line power. Momentary or sustained power failures shall not fault trip out the VFD or blow any fuses.
 15. Any configuration of adjustments or controls not set by a switch or potentiometer shall be stored in nonvolatile memory. No configuration information shall be lost due to power failures of any duration.
 16. The VFD shall be capable of starting into a rotating motor without tripping out on a fault.
 17. The drive shall have an adjustable voltage boost control capable of providing additional starting torque to the motor at start. This control shall provide the additional voltage only at the frequency range required to start the motor thus reducing the additional motor heating excess voltage would cause at normal operating speeds.
 18. The drive shall be equipped with critical frequency jump circuitry which allows the VFD to be setup to skip two bands of frequencies which cause excessive vibration or noise.
- J. Enclosure - The enclosure type shall be as shown in the drawings - freestanding, wall mount, motor control center full section, or MCC cubicle mount construction. All components shall be accessible from the front of the enclosure. Rear or side access shall not be required in order to remove or service any component. The enclosure shall include the following in its construction:
1. The VFD shall incorporate thermostat/run controlled fans for cooling. The air flow through the VFD compartment shall provide proper cooling of the operating VFD at an (external cabinet) ambient temperature of 104°F. Fan mounting shall include reusable air filters on suction. Provide fans for suction and discharge vents as required maintaining air flow and forcing circulation.
 2. Provide specific use fans located within the enclosure to cool, directly, specific components such as line filters or DV/DT filters.
 3. Thermostat shall have bi-metallic adjustable set point range of 30° to 140°F. Thermostat shall have a switching capacity of 10A at 120 VAC. Provide Hoffman A-TEMNO temperature switch or approved equal to operate fans. Thermostat shall operate fans in parallel with motor running output of VFD.
 4. The VFD, including the enclosure and input protection, shall be UL listed for a minimum of 42,000 RMS symmetrical ampere fault withstand capability. VFDs consisting of the VFD, enclosure, and all accessories, that are not UL listed will not be approved.

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PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].
- B. Requirements of Related Electrical Sections apply to design, documentation construction and assembly of Variable Frequency Drives.
- C. Perform work to remedy non-compliant installations after inspection.

3.02 FIELD ASSISTANCE

- A. Testing, checkout and start-up of the variable frequency drive equipment shall be performed under the technical direction of a factory trained authorized manufacturer representative.
 - 1. The setup and programming of the VFD shall be provided by a factory-trained representative who is authorized by the VFD manufacturer to perform the startup. This setup and programming shall be done prior to and during the first application of power to the motor. The VFD electronic motor overload protection shall be set to meet the motor nameplate and NEC Code requirements.
 - 2. Provide testing as specified in Electrical Specifications [Factory and Field Testing].
- B. Provide 1 hour of "VFD Setup" Training on operating and maintenance procedures.

3.03 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General; Warranty].

END OF SECTION

SECTION 16482

SOLID STATE SOFT STARTER

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. Provide each Solid State Starter (SSS) drive as shown on elementary and one-line drawings. All SSSs shall be of the same manufacturer.
- B. Provide enclosure (and wire chase as required) for top or bottom feed conduit connection as shown in the drawings. Enclosure size shall not exceed the space allocated in the drawings for such use.
- C. Provide cooling/ventilation system, mounting hardware, associated components, devices, and field control stations. Some components may be specified in other Electrical Specifications such as terminal blocks, wire, buttons, etc.
- D. The SSS scope of work includes:
 - 1. Providing and installing SSS(s) of rating shown on Contract Drawings.
 - 2. Submittal data and drawings.
 - 3. Startup assistance.
 - 4. Factory and field testing.
 - 5. Operation and maintenance manuals.
 - 6. Warranty of all components.
- E. Startup and configuration of SSS with actual motor load.
- F. Electrical Specifications [Factory and Field Testing]. Furnish all required labor, materials, safety equipment, transportation, test equipment, incidentals and services to perform factory and/or field testing.

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Low Voltage Wire & Data Cable]
- C. Electrical Specifications [Factory and Field Testing]

1.03 SUBMITTALS REQUIREMENTS

- A. Provide Submittals as specified in Electrical Specifications [Electrical General, Submittal Requirements].
- B. Include a record of each SSS parameter available to be changed by the user. The list shall include factory defaults and space for entered values.

1.04 OPERATION AND MAINTENANCE INFORMATION

- A. Provide operation and maintenance instructions as specified in Electrical

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Specifications [Electrical General].

- B. Include a record of each SSS parameter setup during startup and testing and place a copy of setting in each O & M manual.

PART 2: PRODUCTS

2.01 QUALITY

- A. It is the intent of the Contract Specifications and Drawings to secure the highest quality in all materials and equipment in order to facilitate operation and maintenance of the facility. All equipment and materials shall be new and the products of reputable suppliers having adequate experience in the manufacture of these particular items. For uniformity, only one manufacturer will be accepted for each type of product.
- B. All equipment shall be designed for the service intended and shall be of rugged construction, of ample strength for all stresses which may occur during fabrication, transportation, erection, and continuous or intermittent operation. All equipment shall be adequately stayed and braced and anchored and shall be installed in a neat and workmanlike manner. Appearance and safety, as well as utility, shall be given consideration in the design of details. All components and devices installed shall be standard items of industrial grade, unless otherwise noted, and shall be of sturdy and durable construction suitable for long, trouble-free service. Light duty, fragile, and competitive grade devices of questionable durability shall not be used.
- C. Products that are specified by manufacturer, trade name, or catalog number establish a standard of quality and do not prohibit the use of equal products of other manufacturers provided they are favorably reviewed prior to installation.
- D. Underwriter's Laboratories (UL) listing is required for all substituted equipment when such a listing is available for the first named equipment.

2.02 SOLID STATE SOFT STARTER

- A. General:
 - 1. Each solid state soft starter (SSS) shall be provided as a standalone system as an integral unit. The SSS shall be of the latest technology used exclusively for starting motors of the voltage and horsepower shown in the drawings by limiting the voltage and/or current provided to the motor. The SSS shall be available from a single manufacturer in the horsepower range of 1 to 500. The SSS shall be microprocessor controlled and use high efficiency gated power Silicon Controlled Rectifiers (SCRs). The SSS shall be an Allen-Bradley or Square D with soft stop pump control and Ethernet communication module, or approved equal.
 - 2. The SSS shall feature the following selectable motor starting/stopping modes:

- a. Internal bypass contactor - The SSS shall have an internal running load rated full voltage contactor. The contactor shall automatically engage when the SSS has completed the ramp start of the motor. The bypass contactor shall automatically disengage at the beginning of the ramp stop of the motor. The voltage across the bypass contactor while engaged shall be less than 0.1 volts.
 - b. Soft Start – The motor shall be raised to an initial torque value that is programmable from 0-90% of locked rotor torque. The motor voltage is gradually increased during the acceleration ramp time, which is adjustable from 0-30 seconds.
 - c. Soft Start with Selectable Kickstart – The kickstart, or voltage boost, is in addition to the normal soft start as described above. The soft starter shall provide a 0-2 second (selectable) current pulse equal to 550% of the motors full load current.
 - d. Current Limit Start – This starting mode will limit the maximum starting current supplied to the motor during starting. The user shall be able to adjust the current limit from 50% to 600% of full load current.
 - e. Full voltage Start- This mode will provide full voltage and current to the motor with a 1/4 second ramp.
 - f. Soft Stop – This feature will linearly ramp down the voltage over a time interval of 0-60 seconds (selectable)
 - g. Pump Control – This optional mode (required as specified herein) provides non-linear voltage ramp starting and stopping to smoothly accelerate and decelerate the motor. The starting time shall be programmable from 0-30 seconds and the stopping time programmable from 0-120 seconds.
- B. Load - The SSS shall be designed to continuously operate the following motor/pump load:
- 1. Motor, squirrel-cage induction.
 - 2. Pump, per Mechanical Division Specification.
 - 3. Horsepower, at Full speed R.P.M. of supplied motor.
 - 4. Voltage, 460 VAC, three phase, 60 cycle.
 - 5. Service factor, 1.15 S.F.
- C. Input Power - The SSS shall be rated to continuously operate under the following input power conditions:
- 1. Voltage, VAC as shown in Contract one-line diagram, +10%, -10%.
 - 2. Frequency, 60 Hz.
 - 3. Three phase.
- D. Output Power - The SSS shall be rated to continuously operate while providing the following output power conditions:

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1. Voltage, 0 to 460 VAC.
 2. Frequency, 60 Hz.
 3. SSS amp size (minimum) as shown on Contract one-line drawing.
 4. Continuous motor horsepower.
 5. Continuous current, 125% of rated motor nameplate Amps.
- E. Environmental - The SSS shall be rated to continuously operate under the following environmental conditions:
1. Ambient temperature, 32°F to 122°F (0°C to 50°C).
 2. Altitude, no derating below 3,300 ft.
 3. Relative humidity, 95% non-condensing.
- F. Digital programmer/controller –The SSS shall be provided with a door mounted alpha-numeric human interface module (HIM) digital display with keypad to view and adjust the following diagnostic and status registers:
1. Volts AC per phase.
 2. Current per phase.
 3. Watts.
 4. KWH.
 5. Power Factor.
- G. Adjustments - The following setting ranges shall be provided and made independently accessible for operator adjustment:
1. Overvoltage level/delay.
 2. Undervoltage level/delay.
 3. Current unbalance level/delay.
 4. Underload level/delay
 5. Phase reversal
 6. Jam level/delay.
 7. Starts per hour.
 8. Backspin delay.
 9. Ramp times (start and stop).
 10. Motor code letter
 11. Overload class
 12. Motor FLA
 13. Motor Service Factor.
- H. Input and Output Terminations - The SSS assembly shall have terminals for input and output cabling as defined in the Conduit and Wire Schedule as shown on the Contract Electrical Drawings.
- I. Communications – The SSS shall include an Ethernet TCP/IP communications module for interface to the PLC. All settable parameters and instantaneous operational registers shall be accessible from the communications port. The VFD supplier shall assist the Operator Station Programmer in configuration and commissioning of communications.
1. Metering registers to include:
 - a. 3 phase voltage and current

- b. Power in KW, KWH and Power factor
- c. Elapsed motor run time

J. Features - The SSS assembly shall have the following features:

1. Bypass Contactor Control - The SSS shall be capable of controlling a bypass motor contactor to allow motor current to flow around the soft starter, through the contactor, and to the motor. Once the motor is up to speed, the contactor shall be closed and held until a fault or stop command. In this mode, no current will flow through the soft starter power terminals but shall remain in the "on" state. An external current sensing module shall monitor the motor current to maintain the diagnostic, fault and control functions. Upon shutdown, the bypass contactor shall open and allow the soft starter to ramp down the motor. Provide sensing module as required per one-line or elementary diagram.
2. Phase rebalance – If enabled, the soft starter shall monitor the incoming three-phase line voltage and automatically adjust the output voltage to balance the three phase currents drawn by the motor.
3. Connection of the three incoming line leads and three-motor leads shall be the only connections necessary for manual operation of the SSS unit. All other wiring shall be prewired at the factory and self-contained within the SSS unit. A 120 VAC control power transformer and other auxiliary power supplies shall be provided with the SSS assembly for power to pilot lights, meters, relays, and miscellaneous devices specified to be supplied with the SSS. Lugs shall be provided for connection of all power leads; terminal blocks shall be provided for all other wiring.
4. The SSS shall be protected by a circuit breaker disconnect. The disconnect shall be externally operated and shall have an operator mechanism that is an integral part of the enclosure. An operator mechanism shall be provided to allow padlocking the disconnect in the "off" position with up to two padlocks.
5. AC input fuses shall be provided on the line and/or load side of the SSS (if required by the manufacturer) to isolate the SSS power circuitry upon a fault condition.
6. Transient and surge voltage power line input protection shall be provided for the SSS through use of metal oxide varistors (MOVs), surge protective module, or other approved equal methods. Transient protection integral to the SSS shall be provided to a minimum of 1,600 volts, 220 joules without failure. The transient protection shall meet or exceed ANSI C7, 90-1971 and IEEE 472-1974 Standards without failure. Failure is defined as loss of components in the SSS including power SCRs and fuses. The SSS shall be protected from the following, as a minimum, power line transients and recover to automatically restart and resume normal operation without posting a fault:
 - a. Switching the primary of a power transformer.

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- b. Switching power factor correction capacitors “ON” and “OFF” line.
 - c. De-energization or energization of contactors, relays, and other power equipment from the power line.
 - d. Starting and stopping of other motors when powered from Utility.
 - 7. Opening of the SSS's input switches, or breakers while the SSS is operating under load shall not result in damage to the SSS power or control circuit components.
 - 8. The SSS shall be capable of starting and operating without a motor load connected.
 - 9. Phase loss, reversal, undervoltage, overvoltage, and unbalance motor protection shall be provided built in to the SSS.
 - 10. External motor overload protection shall be required per drawings. External overload shall be solid state and adjustable. Provide Allen Bradley SMP-3 or equal.
 - 11. Any configuration of adjustments or controls not set by a switch or potentiometer shall be stored in nonvolatile memory. No configuration information shall be lost due to power failures of any duration.
 - 12. The SSS shall be capable of starting into a rotating motor without tripping out on a fault.
 - 13. Digital Programmer/Controller (HIM) shall be provided and remote door mounted. Remote serial interface shall be suitable for communication via Allen-Bradley standard protocol. Cable for remote digital programmer/controller shall be supplied. The remote controller shall be mounted and housed to maintain the NEMA 12 door rating.
 - 14. Laptop programming connectivity shall be provided to access the drives internal parameters. Provide a USB or RS232 serial converter device and cable for connection to the laptop. Provide programming software as necessary to allow upload/download of data parameters and view current drive status. Provide Allen Bradley Drive Tools software and 1203 USB converter, or approved equal to match drive being submitted.
- K. Enclosure - The enclosure shall be free standing, and stand-alone as shown on the drawings. All components shall be accessible from the front of the enclosure. Rear or side access shall not be required in order to remove or service any component. The enclosure shall include the following in its construction:
- 1. The SSS shall incorporate fans for cooling. The air flow through the SSS compartment shall provide proper cooling of the operating SSS at an ambient temperature of 104° F. The thermostat shall be monitor and regulate air temperature in the SSS enclosure. Thermostat shall have bi-metallic adjustable set point range of 30 to 140° F.

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Thermostat shall have a switching capacity of 10A at 120 VAC. Provide Hoffman A-TEMNO temperature switch or approved equal to operate fans.

2. The complete SSS unit, including the enclosure assembly, shall be UL listed for a minimum of 42,000 RMS symmetrical ampere fault withstand capability or as otherwise shown on the drawings. SSS assemblies consisting of the SSS, enclosure and all accessories that are not UL listed will not be approved.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].
- B. Requirements of Related Electrical Sections apply to design, documentation construction and assembly of Solid State Soft Starters.
- C. Perform work to remedy non-compliant installations after inspection.

3.02 FIELD ASSISTANCE

- A. Testing, checkout and start-up of the solid state starter equipment shall be performed under the technical direction of a factory trained authorized representative.
 1. The setup and programming of the SSS shall be provided by a factory-trained representative who is authorized by the SSS manufacturer to perform the startup. This setup and programming shall be done prior to and during the first application of power to the motor. The SSS electronic motor overload protection shall be set to meet the motor nameplate and NEC Code requirements.
 2. Provide testing as specified in Electrical Specifications [Factory and Field Testing].
- B. Provide 1 hour of "SSS Setup" Training on operating and maintenance procedures.

3.03 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

END OF SECTION

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SECTION 16600

FACTORY AND FIELD TESTING

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. This division defines factory and field testing requirements of electrical and instrumentation equipment and as specified in this section and in Electrical Specifications. All equipment provided under Electrical Specifications and electrical equipment provided under other sections shall be tested as specified herein.
- B. The Electrical Contractor shall coordinate at no additional cost to the Owner, the services of an approved qualified third party independent testing company for the purpose of performing specific tests as outlined in EXECUTION, Field Test of this section.
- C. The System Integrator, Testing Company and/or Electrical Contractor shall provide all labor, tools, material, power, and technical supervision to perform the specified tests and inspections.
- D. The Electrical Contractor shall be present during field testing and assist the System Integrator and/or Testing Company in testing all equipment. The Electrical Contractor shall be ready to correct any wiring problems found during testing.
- E. The Application Programmer (defined in Electrical Specifications [Electrical General].) and/or Construction Manager will be actively engaged in Operational Testing and Commissioning. These efforts shall be combined efforts of the Application-Programmer/Construction-Manager/Engineer and Contractor. The Contractor shall facilitate test as outlined herein such that hardware, software and application programming are tested completely and all applicable test documentation is completed.
 - 1. Expect that field testing of plant operational testing, SCADA and PLC checkout, is going to require 2 weeks after pre-operational tests are done. Contractor and System Integrator shall assist in this start-up. Coordinate with Owner Representative to schedule this start-up period.
- F. It is the intent of these tests to ensure that all equipment is operational within industry and manufacturer's tolerances and is assembled in accordance with design plans and Specifications.
- G. All tests shall be documented in writing by the person performing the test on the test forms submitted (and similar to those shown at the end of this section) and signed by the Engineer as satisfactorily completed. The Testing Company, Electrical Contractor or System Integrator performing tests shall keep a detailed log of all tests that failed or did not meet Specifications, including date of occurrence and correction.
- H. The Contractor shall perform all applicable testing of Owner supplied or

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existing equipment as a unit and as part of a system. Testing shall include documentation and witness sign-off.

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Project Drawings
- C. Additional testing may be specified in other Electrical Specifications.

1.03 FACTORY AND FIELD GENERAL REQUIREMENTS

A. Testing General

- 1. Prior to any field testing Operation & Maintenance Manuals shall have been submitted and approved.
- 2. The test forms shall be completed by the contractor during testing and calibration of all equipment. All tests shall be witnessed by the Owner's Representative. Completed test forms shall be given to the Owner's Representative the day of the test. Complete two sets of test forms if Contractor wants to keep a copy.
- 3. The Contractor shall give the Engineer 10 working days notice of the dates and time for inspections and testing.
- 4. Include test results in the Maintenance and Operational Manual.
- 5. As a minimum, all the tests indicated/specified on the test forms shall be performed and test forms filled out by the Contractor.
- 6. Prepare and submit formal test procedures and forms at least two weeks prior to the start of testing. Testing shall not commence until the test procedures have been reviewed and approved. Submit a combined test procedure submittal with separate sections for factory and field tests.
- 7. If the results of any of tests are unacceptable, the Contractor shall make corrections and perform the tests again until they are acceptable; these tests shall be done at no additional cost.

B. Failure to Meet Test

- 1. Any system, material or workmanship which is found defective on the basis of these tests shall be reported immediately following the test. The Contractor shall replace the defective material or equipment and have tests repeated.

C. Safety

- 1. Testing shall conform to the respective manufacturer's recommendations. All manufacturers' safety precautions shall be followed.
- 2. Safety, as shown herein and in other divisions, shall be a combination

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of all methods and practices described. Safety practices may not be determined based on the least restrictive requirement, but instead, on the most restrictive requirement. Obtain clarification if there is any question prior to performing tests.

3. The procedures stated herein are guidelines for the intended tests, the Contractor shall be responsible to modify these tests to fit the particular application and ensure personnel safety. Absolutely no tests shall be performed in such a fashion that personnel safety is jeopardized.
4. The Contractor shall have two or more personnel present at all tests.
5. Two non-licensed portable radios shall be provided by the Contractor for use during testing.
6. Contractor shall comply with California Electrical Safety Orders (ESO) and Occupational Safety and Health Act (OSHA): All test and procedures shall comply with ESO and OSHA as to safety, protective clothing, clearances, padlocks and barriers around electrical equipment energized during testing.
7. The first set of tests to be performed (**pre-energization**) shall determine the suitability for energization and shall be completed with all power turned off.

1.04 QUALIFICATIONS

A. Testing Company

1. Testing company shall have been actively engaged in the type of electrical testing specified in this Division for the past three years (minimum). The Testing Company representative shall have two years experience in field testing of equipment working for the Testing Company or equivalent. The following Electrical Testing Companies are pre-approved.
 - a. EETS (916) 339-9691
 - b. Industrial Test (888)-809-8550
 - c. Emerson Electrical Reliability Services
 - d. Apparatus Testing and Engineering (916) 853-6280
 - e. Apparatus Testing and Engineering (925) 454-1363
 - f. Power Systems Testing (925) 583-2361
2. Testing Companies not listed are required to submit company and individual representative resumes for review and approval.

B. System Integrator Representative

1. The system integrator representative shall have 1 year experience in field testing of equipment working for the System Integrator or equivalent. If the representative does not demonstrate necessary experience or competence during testing or start-up, the System

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Integrator shall provide a representative meeting the required competence and experience.

C. Electrical Contractor Representative

1. The Electrician shall have 5 years minimum experience working with industrial control systems and have a Journeyman level experience rating.

1.05 SUBMITTAL REQUIREMENTS

- A. The Contractor shall ensure that the Testing Company, System Integrator, and all equipment suppliers provide the submittal documentation required in this section. Submittals shall be complete, neat, orderly, and indexed. The Contractor shall check all submittals required under this Division for the correct number of copies, adequate identification, correctness, and compliance with the Contract Specifications and Drawings, and initial all copies certifying compliance.
- B. The System Integrator shall assemble and submit for approval complete testing procedures and forms at least two weeks prior to the start of testing. Contractor is responsible for compiling testing procedures and forms from multiple sub-contractors as required.
- C. Test submittal shall include: (as applicable)
 1. Proposed procedure for operational testing whether it is performed in the factory or field. Procedure shall include method, simulated I/O requirements, bypass piping, telemetry, and necessary materials and equipment to conduct test.
 2. Test forms (for all tests, factory and field, and regardless of who performs tests). Test forms shall be electronically completed prior to submittal with entry spaces filled to the extent possible. The only remaining data that shall require completion during the test is the test data itself. Test forms shall be provided as illustrated at the end of this section or equal.
 3. Approved shop one-line, elementary diagrams and PLC I/O drawings.
 4. Control strategies photocopied at 75% reduction with room at the side of page for comments on each paragraph or control strategy.

PART 2: PRODUCTS

2.01 TEST EQUIPMENT

- A. Test equipment required to perform testing and document results shall be provided by Contractor, Testing Company or System Integrator.
- B. Test instruments shall be calibrated to references traceable to the National Institute of Standards and Technology. Instrument calibration shall be current to one year from date of start-up. Test equipment accuracy shall be at

least twice the accuracy of instrument being calibrated. Test instrument certificates of calibration shall be on-hand and provided prior to testing.

- C. All test equipment to be used as part of the testing shall be listed in the submitted testing sheets. Contractor supplying the component or system to be tested shall provide all necessary test equipment.
- D. The overall accuracy of each input and output loop shall be checked to ensure that it is within manufacturer's Specification tolerances. In no case shall the error exceed 0.25% or 0.04 mA.

PART 3: EXECUTION

3.01 FACTORY TESTING

A. General Requirements

1. The System Integrator shall conduct a thorough and complete factory test witnessed by Engineer per the criteria specified herein. Factory test shall be held within 150 miles of project location.
2. Temporary wiring and equipment shall be provided and connected during these tests to simulate the complete assembled system.
3. The testing shall not be started until the manufacturer has completed fabrication, wiring, setup, programming; quality control testing; and can demonstrate the system is complete and operational.
4. The equipment required for factory testing shall consist of, but is not limited to, control panels, MCCs, and/or miscellaneous electrical panels as provided under this contract.
5. Two digital multimeters/signal generators (minimum +/- 0.1% accuracy) with clip-on leads shall be supplied and utilized during testing for measurement of digital and analog outputs.
6. All factory tests shall be conducted at the System Integrator's facility. All factory tests shall be completed prior to shipment to the jobsite. The equipment shall be fully assembled, and connected (and programmed) similar to as it will be installed.
7. The length of the factory testing shall be a minimum of one (1) working day(s) (8 hours per day).
8. If the equipment is not ready for factory testing, the test will be cancelled and rescheduled for a later date. The Contractor shall be responsible for paying liquidated damages for expenses incurred by the Owner Representative to come to a cancelled test. One thousand dollars (\$1000.00) in liquidated damages shall be deducted from his contract each occurrence.
9. Faulty and/or incorrect hardware or software operation of major portions of the system may, at the discretion of the Engineer, be cause

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for suspension, cancellation, or restarting of the factory test, at no additional cost to the Owner or extension in Contract time.

10. The factory test will be considered complete only when the integrated system has successfully passed all tests. No electrical equipment shall be shipped to jobsite without completed test documentation.
11. During the testing period, under the supervision of the System Integrator, the Owner's Representative shall have unlimited and unrestricted access to the usage and testing of system hardware, configuration, software, meters and tools.
12. The System Integrator shall pay all expenses incurred by his personnel including labor, material, transportation, lodging, daily subsistence, and other associated incidental costs during the factory testing.
13. Acceptance and witnessing of the factory tests does not relieve or exclude the Contractor from conforming to the requirements of the Contract Documents.
14. All modifications to documentation as a result of the factory tests shall be corrected and completed before the submittal and delivery of "Operation and Maintenance" Manuals.
15. Copies of the completed and witnessed factory testing forms shall be included in the Operation and Maintenance Manual.

B. Factory Tests

1. External network connection required to permit polling of the PLC during the Factory Test.
2. Structured Factory Tests: The associated factory tests are to be performed by the System Integrator and witnessed by the Owner's Representative. The associated test forms shall be completed during each stage of the test.
 - a. Visual and Mechanical Inspection Tests
 - b. Wiring Tests
 - 1) Contractor shall confirm correct panel wiring per System Integrator panel shop drawings. Panel shop drawings shall be compared with Contract P&IDs and other drawings to verify all hardwire logic are accounted for. Panel drawings used in factory tests shall be redlined and inserted into Factory Testing Results submittal.
 - c. MCC and Control Panel Pre-Operational Tests
 - d. Logic Controller I/O Point to Point Tests
 - e. Simulated Alarm Tests

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- 1) Simulate the digital and/or analog signals at the terminals to verify that each PLC I/O point is functional and properly programmed. Verify that all parameters (i.e., setpoints, enable/disable toggle bits, timers, etc.) for the alarms operate according to the Specifications. Multiple alarm states (i.e., LO, LO-LO, HI, HI-HI, etc.) shall be checked.
- f. Simulated Operational Control Tests
 - 1) Simulate the digital and/or analog signals at the field terminals to verify that each control system is functional and properly configured and programmed.
 - 2) Each line of control logic in the Control Strategies section shall be checked. When the complete control strategy has been checked, it shall be signed and dated by testing person and person witnessing test.
 - 3) Verify that all parameters (i.e., setpoints, runtimers, totalization, etc.) operate according to the Specifications.
3. Unstructured Factory Tests: The various unstructured tests shall include, but are not limited to, the following.
 - a. Simulate the equipment failure and power fail/restart of PLC. Check the effects of each failure on maintaining operations with the remaining equipment.
 - b. The factory tests, as a minimum, shall simulate all normal and abnormal operating conditions including steady state, change of state, variable changes, fluctuations, transients, upsets, start-up, shutdown, power failure, and equipment failure conditions.
 - c. Communications test to devices located within control panel and/or in MCCs.
 - d. Simulation of PLC communication error. Demonstrate error detection, alarming, and recovery.
 - e. Measure and test all power supplies for correct voltage. Operate rechargeable devices under battery power to test run duration, alarms and automatic recovery.

3.02 FIELD TESTING

A. General Requirements

1. Field testing is broken down into 4 components
 - a. Pre-Energization testing

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- b. Pre-Operational Testing
 - c. Operational Testing
 - d. Commissioning
2. Project wide, all Pre-Energization testing must be completed prior to Pre-Operational testing, all Pre-Operational testing must be completed prior to Operational Testing, and all Operational Testing must be completed prior to Commissioning.
- a. Any deviation of this order, whether on a component level or larger scale, must be approved.
 - b. Out of order testing, if allowed, will be evaluated on a case-by-case basis when brought to the attention of the Owner's Representative. The Owner's Representative may require that the entire system, or portions thereof, be retested once the missing component(s) are installed and functional.
3. All equipment supplied by the Contractor or others shall be tested by Contractor per these specifications.
4. Two digital multimeters/signal generators (minimum +/- 0.1% accuracy) , AC current meters, torque wrench, and other specialized test equipment shall be provided by the Contractor for use during testing.
5. If the equipment is determined not to be ready for testing, the test will be cancelled and rescheduled for a later date.
6. Faulty and/or incorrect hardware or software operation of major portions of the system may be cause for suspension, cancellation, or restarting of the area of testing, at no additional cost or extension in Contract time.
7. During the Operational testing period, under the supervision of the System Integrator, the Owner's Representative shall have unlimited and unrestricted access to the usage and testing of all hardware and software in the system.
8. The System Integrator shall pay all expenses incurred by his personnel including labor, material, transportation, lodging, daily subsistence, and other associated incidental costs during field testing.
9. Acceptance and witnessing of the tests does not relieve or exclude the Contractor from conforming to the requirements of the Contract Documents.
10. All modifications to documentation as a result of the tests shall be corrected and completed before the delivery of "as-built" documentation.
11. Copies of the completed and witnessed field testing forms shall be included in the Operation and Maintenance Manual.

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12. The various contractors on this project (General Contractor, Electrical Contractor, Testing Company, and System Integrator) shall assume the lead role in testing activities as listed below. The Contractor shall obtain assistance of suppliers and/or manufacturers representatives for any major equipment testing.

a. Electrical Contractor:

- 1) Pre Energization Tests
 - a) Visual Mechanical Tests
 - b) Wire Insulation and Continuity Tests.
 - c) Panelboard Tests
 - d) Breaker Tests
- 2) Operational Tests.
 - a) Generator Tests
- 3) Commissioning.

b. System Integrator:

- 1) Pre-Operational Tests
 - a) Visual Mechanical Tests
 - b) Control panel pre-operational test
 - c) MCC pre-operational test
 - d) Motor Tests.
 - e) PLC I/O point to point tests.
 - f) Instrumentation switch tests
 - g) Instrumentation transmitter tests.
- 2) Operational Tests.
- 3) Commissioning

c. Testing Company

- 1) Grounding System Tests
- 2) Breaker Device Tests
- 3) Set all breakers and protective devices per approved SSCS.

d. General Contractor

- 1) Test Scheduling
- 2) Operational Tests.
- 3) Commissioning.

e. Owner Representative (software systems)

- 1) Operational Tests.
- 2) Commissioning.

- B. Electrical Field Tests – The following test shall be performed within each test category. Complete test forms for each electrical panel, instrument, and/or device. Provide separate form for each component to be tested.

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1. Pre-Energization Inspections and Tests:
 - a. Visual and Mechanical Inspection Tests
 - b. Wire Insulation and Continuity Tests
 - c. Grounding System Tests
 - d. Panelboard Tests
 - e. Breaker Tests
 - f. Post all approved arc flash labels
2. Pre-Operational Tests:
 - a. MCC Pre-operational Tests:
 - b. Control Panel Pre-operational Tests:
 - c. Motor Testing:
 - d. Generator Testing (if generator is furnished)
 - e. Harmonic Measurement: (Required for systems with VFDs)
 - f. Instrumentation Switch Calibration Tests
 - g. Instrument Transmitter Calibration Tests
 - h. PLC I/O point tests.
 - i. Communication Tests
 - 1) The Contractor shall verify that all communications via radio, telephone, wireline, fiber optic, or other are functional and ready for operational testing. Revise all configurable parameters without additional cost to the Owner as required for an optimally functional system.
 - 2) Verify that all components of the communication system operate together under all operating and power restart conditions. If faults occur, investigate source of problem and correct. Revise all configurable parameters without additional cost to the Owner.
 - 3) Change setpoints from SCADA and confirm that corresponding field setpoint changes correctly. Check every I/O point on every screen, trend, and database.
3. Operational Tests:
 - a. After all the previous tests in this subsection are complete, the test forms are completed and signed-off, the Contractor shall conduct operational testing.
 - b. Representatives from the General Contractor, Electrical Contractor, System Integrator, and Owner's Representative shall be present during testing. Operational testing shall be performed by Contractor in the presence of the Owner's Representative.
 - c. During operational testing the Contractor shall follow the instructions of the Owner. The Owner may place restrictions on operation that must be followed by the Contractor during testing. Any accidents or fines caused by actions of the

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Contractor where warnings or restrictions were placed, shall be remedied or paid by the Contractor.

d. Alarm Tests

- 1) Generate the digital and/or analog signals at the primary device to verify that each PLC I/O point is functional and properly programmed. Verify that all parameters (i.e., setpoints, enable/disable toggle bits, timers, etc.) for the alarms operate according to the Specifications. Multiple alarm states (i.e., LO, LO-LO, HI, HI-HI, etc.) shall be checked.

e. Operational Control Tests

- 1) Generate the digital and/or analog signals at the primary device by raising or lowering the actual measured process. Inject signal into the terminals or utilize a "force" function within the device only as necessary. Verify that each control system is functional and properly configured and programmed.
- 2) Each line of control logic in the Control Strategies section shall be checked. When the complete control strategy has been checked, it shall be signed and dated by testing person and person witnessing test.
- 3) Verify that all parameters (i.e., setpoints, runtimers, totalization, etc.) operate according to the Specifications.
- 4) Verify that all data, setpoints, alarms are being received at SCADA correctly and that all I/O points on screen are true and accurate representations of field information.

f. Other Tests

- 1) Force a power failure and power fail/restart of PLC and all other systems. Check the effects of each failure on each piece of equipment and automatic recovery.
- 2) Force a PLC communication error. Demonstrate error detection, alarming, and recovery.
- 3) Perform additional operational testing that has not already been witnessed.
- 4) Perform any additional operational testing as necessary to confirm robust and error free operation under all operational conditions.

4. Trial Period

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- a. Station/Equipment shall be activated to automatically run for 5 days, 24 hours per day Monday through Friday.
- b. During the trial period the Owner's Representative will test all modes of operation and will look for errors and malfunctions. A punchlist will be generated to be completed by Contractor and re-tested prior to Commissioning.
- c. If equipment failure occurs during the trial period, the Contractor shall repair or replace the defective equipment and shall begin another trial period, Monday through Friday.
- d. This test shall be repeated until all new equipment functions acceptably and without failure for consecutive days.

C. Commissioning:

- 1. Commissioning shall not commence until Operational testing and System Training are complete with documentation submitted and with prior approval.
- 2. The Owner may delay Commissioning for a period up to 30 days, during which time all testing documentation will be reviewed and preparation for operation will be made. Costs for project delays during this review may not be forwarded on to the Owner.
- 3. Commissioning period
 - a. The new equipment shall be activated by the Contractor to operate in full automatic for 10 consecutive days, 24 hours per day. Commissioning shall only start on Mondays or Tuesdays.
 - b. During Commissioning, the Owner will monitor and run the station in normal automatic mode. If equipment failure occurs during Commissioning, the Contractor shall repair or replace the defective equipment and shall begin another commissioning period after repairs are complete.
 - c. Parallel, existing and/or back-up systems shall remain in place and functional during commissioning period. Demolition of parallel, existing or back-up systems shall not begin until commissioning is completed.
 - d. This test shall be repeated until the new equipment functions acceptably for a consecutive commissioning period.
 - e. Warranty will begin at the start of a successful commissioning period. However, if major hardware failure occurs during commissioning, the warranty and commissioning will restart once the problem has been identified and repaired.

3.03 WARRANTY:

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A. Provide warranty per Electrical Specifications [Electrical General, Warranty].

1. The completion of the above tests does not relieve the Contractor from any warranties specified in the Electrical Specifications or other sections.
2. Warranty shall begin on the start date of a successful Commissioning period.

3.04 FINAL ACCEPTANCE:

A. Final Acceptance per Electrical Specifications [Electrical General].

SECTION 16600

TEST FORMS

Index of Forms:

PC	Power Conductor Test Form
CC	Control Conductor Test Form
IC	Instrumentation Conductor Test Form
FIBER	Fiber Optic Conductor Test Form
GS	Grounding System Test Form
VM	Electrical Equipment Visual and Mechanical Inspection Form
PB	Panelboard Test Form
MCO	MCC Operational Test Form
CPO	Control Panel Operational Test Form
BD	Breaker Device Test Form
GCL	Generator Field Check List
GPT	Generator Performance Test Form
GSLD	Generator Sound Level Data Form
MOTOR	Motor Test Form
HM	Harmonic Measurement Test Form
IOP	Programmable Logic Controller I/O Point-to-Point Test Form
ISC	Instrumentation Switch Calibration Test Form
ITC	Instrumentation Transmitter Calibration Test Form

END OF SECTION

SECTION 16905
CONTROL PANELS

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. Provide and install Control Panels per Drawings.
- B. Provide complete wired and tested panel with all devices installed per the contract Drawings and as stated herein.
- C. Provide all necessary hardware, conduit, wiring, fittings, and devices to connect the control panel to equipment provided under other Sections.

1.02 REFERENCES

- A. Electrical Specifications [Electrical General].
- B. Electrical Specifications [Low Voltage Wire & Data Cable]
- C. Electrical Specifications [PLC & OI Hardware]
- D. Electrical Specifications [PLC & OI Application Programming]
- E. Electrical Specifications [Instrumentation]

1.03 SUBMITTAL REQUIREMENTS

- A. Provide submittals and Drawings as specified in Electrical Specifications [Electrical General, Submittal Requirements].
- B. Submit shop construction Drawings for the Control Panel. The following Drawings shall be provided as a minimum:
 - 1. Scaled drawings of the Control panel elevation, baseplan. The dimensions and locations of the cutouts shall be dimensioned from the bottom left corner of the door(s).
 - 2. Scaled drawings of the backpan including all mounted components and wireways.
 - 3. Wiring diagrams for AC and DC power distribution, I/O for each card in the PLC and communications block diagrams.
 - 4. Interconnection diagrams per Electrical Specifications [Electrical General].
- C. Calculations for environmental controls. Environmental controls (including air conditioners, exhaust fans, heaters and circulation fans) shall maintain interior panels temperatures within ratings of all internal equipment given the intended installation location.
 - 1. Design and install environmental control systems to meet

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requirements herein and prevent premature failure of panel internal components.

2. Environmental controls may be shown in the Drawings and shall be considered the minimum level required. Additional components or systems shall be provided to meet internal temperature requirements.
3. Environmental control systems shall prevent and control intrusion of dust and bugs through the use of filtration systems.
4. Environmental control systems shall maintain humidity below that of the external ambient air and without condensation within panel.

1.04 OPERATING AND MAINTENANCE INSTRUCTIONS

- A. Provide operating instructions as specified in Electrical Specifications [Electrical General].

PART 2: PRODUCTS

2.01 ENCLOSURE

1. The enclosure for the control panel shall be (at minimum) sized as shown in the Contract Drawings.
2. Arrangement: Where so indicated, the instruments mounted in the panels shall have the nominal size and general arrangement shown. Panel layouts and nameplates shall conform to the approved submittal.
3. Assembly: Mount all equipment on 12 ga. painted white backpan(s) that is bolted to rear (and sides) of the enclosure. Use drill and tap method for machine thread screws for all internal components on mounting panels. Provide extra mounting bolts through the rear of the structure if equipment weight exceeds backpanel mounting stud capacity.
4. Hardware: Provide door latch and accessories as detailed in the Contract Drawings or as required to meet NEMA area ratings.
 - a. Provide one or two single point latches for panels up to 36" height.
 - b. Provide 3 point latching mechanisms for panels over 36" height consisting of rotating handle with latch, extension bars with plastic wheels at ends and guide slots at top and bottom of door, or as otherwise shown on drawings.
 - c. Hinges, pins, bolts and screws shall be of 316 stainless steel only.
5. When physical size requirements for individual components are different than that detailed on the Control Panel backpan drawing, the wiring diagrams and specifications herein shall supersede the elevation

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drawing and the Contractor shall furnish additional panel width as needed to fit the electrical equipment. Deviations with sufficient evidence for the change shall be submitted for approval. The Contractor is required to provide for all equipment including spares and spaces as shown in the wiring diagrams.

6. Enclosure shall be Saginaw Floor Mounted Type 12 Enclosure SCE-72EL6018LPPL or equal.

2.02 CONTROL PANEL CIRCUIT BREAKERS

- A. Furnish circuit breakers and accessories as required per Drawings and application.
 1. Copper busbar systems, up to 480VAC, 115A, 1, 2 or 3 phase as needed for application
 2. Trip rating per Drawings or as needed for protected device. Trip curves as selected by System Integrator.
 - a. B curve magnetic trip point: 3 to 5 times the rated current, typically used for computers and electronic equipment with very low inrush loads (PLC wiring).
 - b. C curve magnetic trip point: 5 to 10 times the rated current, typically used for small transformers, pilot devices, etc.
 - c. D curve magnetic trip point: 10 to 20 times the rated current, typically used for transformers or loads with very high inductive loads.
 3. Quantity of pins and feed in lugs as required.
 4. Auxiliary contact, shunt trip as required in Drawings.
 5. Din rail mounted, 18mm width per pole, finger safe pressure plate terminals.
- B. Motor applications:
 1. UL489 for branch circuit protection up to 40A, 1 to 3 pole.
 2. 5 kAIC interrupting capacity @ 480 VAC
 3. Alltech, Eaton FAZ, or equal.
- C. Control circuit transformers and other Non-motor applications:
 1. UL1077 supplementary protection up to 63 amps, 1 to 2 pole, AC or DC.
 2. Used where a UL489 protective device is upstream powering the circuit (from a panelboard or other source).

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3. Used within control circuits for power supplies, control power transformers, relays and PLC I/O points.
4. Used in place of fuses that are applied as supplementary protection.
5. Eaton FAZ, or equal.

2.03 FUSES AND FUSE HOLDER

- A. Fuses shall not be used in branch or control circuits unless specifically shown in the drawings. Circuit breakers shall be furnished and utilized where possible.
- B. Fuses used in circuits 200 VAC and above shall be time- delay, 13/32" x 1-1/2", and have an interrupting rating of 10,000 AIC at 500 VAC. Fuses shall be Bussman type FNQ or approved equal. Fuse holders shall feature open fuse indication lights and shall be rated 30A at 600 VAC. Fuse holders shall be Bussman Optima Series OPM or equal.
- C. Fuses used in 120 VAC shall be time-delay, 1/4" x 1-1/4", and have a rating of 250 VAC. Fuses shall be Bussman type MDA or approved equal. Fuse-holders shall be of the same manufacturer, series and color as the adjacent terminal blocks and have blown fuse neon indicators. Fuse holders shall be Entrelec ML 10/13.SFL, Allen Bradley 1492-H4 or equal.
- D. Fuses used in signal and 24 VDC circuits shall be fast acting, 5mm x 20mm and have a rating of 250 VAC. Fuses shall be Bussman type GMA or approved equal Fuse-holders shall be of the same manufacturer, series and color as the adjacent terminal blocks and have blown fuse LED indicators. Fuse holders shall be Entrelec M 4/8.SFDT, Allen Bradley- 1492-H5 or equal
- E. Fuses shall be sized in conformance with the NEC.

2.04 TERMINAL BLOCKS AND ACCESSORIES

- A. General
 1. Terminal blocks to be spring cage-clamp type, 5 spacing, 300 volt, minimum rating of 20 amps, and mounted on DIN rail. DIN rail shall be same type as used for the relays. Install extra DIN rail on each type of terminal strip with 10% spare terminals for future additions.
 - a. Provide larger terminal as necessary based on gauge of connected wiring. Those terminals with 10 gauge larger gauge wiring or more than one 12 gauge wire should be evaluated and changed.
 2. Provide terminal blocks with "follower" plates that compress the wires and have wire guide tangs for ease of maintenance. Terminal blocks that compress the wires with direct screw compression are unacceptable. All power, control and instrument wires entering and leaving a compartment shall terminate on terminal blocks with wire numbers on terminals and on both ends of the wires.

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3. Provide end clamps, separators, din rails, and jumpers to complete terminal block system. See example PLC I/O drawing for additional information. Engineer can provide on request if not available in plans.
4. Terminal Tags and Markers: Each terminal strip shall have a unique identifying alphanumeric code at one end (i.e.: TB1, TB2, etc.) or as shown in drawings.
5. Plastic marking tabs shall be provided to label each terminal block. These marking tabs shall have a unique number/letter for each terminal which is identical to the "elementary" and "loop" diagram wire designation. Numbers on these marking strip shall be machine printed and 1/8" high letters minimum.
6. Terminal blocks are grouped based upon purpose. The following terminal block designations shall be used to ensure uniformity of panels in all facilities:
 - a. • TB-1 24 VDC Power (+) Bus
 - b. • TB-2 24 VDC Common (-) Bus
 - c. • TB-3 120 VAC L1 Bus
 - d. • TB-4 120 VAC L2 Bus
 - e. • TB-5 Discrete Inputs
 - f. • TB-6 Discrete Outputs
 - g. • TB-7 Analog Inputs
 - h. • TB-8 Analog Outputs
 - i. • TB-9 110VAC Instrument Source Bus
 - j. • TB-10 UPS loads
7. Terminal blocks shall be physically separated into groups by the level of signal and voltage served an by PLC I/O card. Power and control wiring above 100 volts shall have a separate group of terminal blocks from terminal blocks for wiring below 100 volts, intermixing of these two types of wiring on the same group of terminal blocks is not allowed.
8. Terminal blocks shall be gray in color unless otherwise shown on the drawings.
9. Provide a ground terminal or connection point for each grounding conductor.
10. Provide a separate signal, common, and/or neutral terminal for every wire and PLC or remote device connection at minimum.

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- B. Terminal blocks shall be cage-clamp, screwless, DIN EN 50022 rail, 600 volt rating except for pull apart terminal blocks in MCC cubicles. Terminal blocks shall be Wago, Phoenix or equal:
1. Numbers shall be assigned to all blocks except grounding blocks. Fuse blocks shall be assigned unique tag numbers such as FU1, FU2. No two fuses shall be assigned the same tag number. Numbers shall be machine printed on WAGO plastic inserts. Fuse blocks shall also be provided with markers identifying the current rating of the fuse.
 2. Each terminal shall have a unique identifying alphanumeric code at one end (i.e.: 101, 102, etc.). Terminal numbers shall be assigned starting lowest number at one end, incrementing sequentially to higher numbers (i.e: 1,2,3,4....). These terminals shall have a unique number/letter for each terminal which is identical to the "elementary" and "loop" diagram wire designation. Numbers on this marking strip shall be machine printed on WAGO plastic inserts.
 3. Terminal blocks shall be physically separated into groups by the level of signal and voltage served. Power and control wiring above 100 volts shall have a separate group of terminal blocks from terminal blocks for wiring below 100 volts, intermixing of these two types of wiring on the same group of terminal blocks is not allowed.
 4. As a minimum, provide a ground terminal or connection point for the power system grounding conductor, for each terminal block group.
 5. Provide a separate common or neutral terminal for every two (maximum) inputs and/or outputs.
- C. MCC – Motor Starter Cubicle Terminal Blocks
1. MCC cubicle terminal blocks shall be pull apart as supplied standard by MCC manufacturer.
- D. Power – Power terminal Blocks
1. Backpan mounted termination blocks shall be rated for 600V (min). The power termination blocks shall be rated to accept Copper or Aluminum cable and rated as shown on Contract one-line diagrams. Termination blocks shall be insulated with molded plastic covering and finger safe cover. Each termination block shall be provided with quantity and size of primary and secondary cable connections as required per installation. The power termination blocks shall be Erico UD, UDJ, BD, TD, or SB series or equal.
 2. Unmounted termination blocks shall be constructed of aluminum and suitable for use with Aluminum and copper wire. Size and quantity of cable connections shall be as required for installation. Termination blocks shall be insulated with molded high-dielectric strength plastic covering and eliminate the need for tape insulation of electric connection. The termination block shall have removable access plugs over the wire entry and hex screw ports. Provide NSI Polaris IPL or

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IPLD Series terminal blocks or equal.

E. PANEL GROUND

1. Each electrical enclosure shall have a copper ground bus. Screw type fasteners shall be provided on all ground busses for connection of grounding conductors. Ground bus shall be a Challenger GB series, ILSCO CAN series or equal.
2. A 12ga. copper ground wire shall be attached between the ground bar and the panel enclosure, and between the ground bar and the mounting panels. The ground connection to the enclosure and panel shall be made by sanding the paint finish off a small area, drilling a hole for a 0.25 inch bolt and mounting a 0.25-20 bolt to the panel to serve as grounding stud. The grounding stud shall be attached with a nut and flat washers on both sides of the enclosure/panel, and with an inside tooth star lock washer next to the panel surface. The star lock washer shall be on the inside surface of the enclosure, and the front surface of the mounting panel. The grounding wire shall be secured to the stud with a nut and inside tooth star lock washer. These grounding points shall be located within 12 inches of the bottom to the grounding bar. Each terminal strip rail shall be individually grounded by means of a #12 AWG wire to the ground bus.
3. Components within the panel shall be grounded according to the manufacturer's recommendations.

2.05 POWER SUPPLIES

A. Uninterruptible Power Supply (UPS)

1. The UPS shall be installed within the control panel and power all process related 120 VAC devices and DC power supplies.
2. The UPS capacity/size shall be as shown in the contract Drawings. The battery capacity shall be such that it may provide nameplate power for 10 minutes (min) from a fully charged battery(s).
3. The UPS shall provide surge protection and filtering: 0.3% IEEE surge let-through, zero clamping response time to meet UL 1449. The inverter shall provide true sine wave output.
4. When the Utility power voltage is outside of a preset range (approx. $<100 < V < 130$ VAC) then the UPS shall power the load from storage batteries and a solid state inverter.
5. The power supply shall be wired into the control panel power circuit per the contract Drawings.
6. The UPS operating ambient temperature range shall be 32 deg F to 122 deg F minimum.
7. The inverter shall be self resetting and continuously on-line regardless

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of the Utility power existence. Configure the UPS to restart automatically upon restart of utility power without operator intervention. The rectifier/charger shall recharge and maintain float charge on the batteries automatically.

8. The UPS shall be of a readily available commercial manufacturer. Provide American Power Conversion Smart UPS, Marathon Vault Series, or equal.

B. DC Power Supply (PS)

1. The DC power supply shall utilize a switching power stage, rectifier and voltage regulator. The power supply case shall be DIN rail mountable.
2. The power supply shall operate on 120V AC and provide DC output voltage and current as shown in the Contract Drawings.
3. The power supply shall be wired and fused per manufacturer instructions and Contract Drawings. Power supply output shall include self resetting overcurrent protection.
4. Power supplies below 101 Watts output power shall be Class 2 rated.
5. The power supply shall provide 2% voltage regulation for a change of 10% load to 100% full load.
6. The DC power supply shall be IDEC PS5R Series, Phoenix Contact Quint Power, Genesis Automation GDA, or equal.

2.06 MISCELLANEOUS COMPONENTS

- A. Wireway: Manufactured from light gray rigid PVC suitable for continuous use at temperatures up to 50 deg C. Wireway shall be 2" height, width as required with 0.5" slot spacing with removable covers. Provide Panduit type "F" or equal.
- B. LED Strip Light: The LED light shall be an "under cabinet" style with multiple LED lamps and acrylic diffuser. Lamp shall be switched on/off from integral switch or PIR motion sensor. Light housing shall be capable of magnet mount to top or side of enclosure or will include mounting tabs for mounting to brackets. Lamp shall be powered from 120VAC or from 24~48 VDC or shown in the contract drawings. LED Strip Light shall be Stego 02540, or equal.
- C. Circulation Fans: The control panel temperature shall be maintained 10 deg. F below lowest internal device's temperature rating. The fans shall be 4" or 6" unless otherwise noted on Contract Drawings. The Contractor shall calculate the heat generation of all internal components and determine if the fans submitted will meet the cooling requirements of the internal components. Circulation fans shall include louver with filter and bug screen for outdoor installations.
- D. Forced Air Heater: The control panel temperature shall be kept above 50 deg. F through the use of a resistive forced air heater when the panel is

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located outdoors. The heater shall contain a fan, heating elements, and thermostat within a single self contained unit. The wattage of the heater shall be as calculated by the supplier using the manufacturers sizing method to meet the temperature requirements. The heater shall be Hoffman D-AH series, or equal.

- E. Thermostats: The air circulation fans shall be controlled by adjustable thermostat. The thermostat shall be mounted near the top of the panel and easily accessible by a technician. The thermostat shall be capable of control of a heater or cooling fan(s) by selecting the proper contact logic. The thermostat range shall be adjustable from 30 to 140 deg F. Thermostat shall be Hoffman A-TEMxx, or equal.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].

3.02 FABRICATION

- A. Equipment Mounting:

1. Mount all equipment using manufacturers mounting tabs/holes or brackets where possible. Where not possible, construct custom brackets to panel mount or backpan mount components as shown in the Contract Drawings.
2. Equipment or laptop shelves shall be provided where shown on the Contract Drawings. Equipment shown on shelves shall not be placed on the bottom of the panel after field installation.
3. All nuts, bolts, screws, washers and hinges used in the panel shall be stainless steel. All components shall be mounted using bolts or screw fasteners only which are drilled and tapped into the backpan. Pop rivets shall not be allowed within panel except for enclosure support arms.

- B. Environmental:

1. Control panel environmental accessories including fans, louvers, filters, bugscreens, air conditioners, etc. shall be provided as noted in the Drawings and as necessary for a complete environmental solution.
2. Panels environmental controls shall be designed during shop drawing submittal and fabricated to maintain temperatures 10 degrees F below lowest internal equipment maximum temperature rating.
3. Contractor shall provide [additional] fans, louvers, screens, sunshades, air conditioners, etc. as necessary to prevent equipment malfunction or premature failure. Provide associated wiring and thermostats as needed.

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4. Environments:

- a. NEMA 4X rated panels shall be cooled/heated with closed loop type conditioning systems to include air conditioners, internal panel circulation fans and resistive heaters.
- b. NEMA 3R rated outdoor panels shall be cooled/heated with open loop type conditioning systems to include air conditioners, exhaust fans and louvers, internal panel circulation fans and resistive heaters. All exhaust fans and louvers shall include filters and bugscreens.
- c. NEMA 12 or 1 rated indoor panels shall be cooled/heated with open loop type conditioning systems to include air conditioners, exhaust fans and louvers, internal panel circulation fans and resistive heaters. All exhaust fans and louvers shall include filters and bugscreens.

C. Wiring:

1. Panel Wiring: All wiring shall be installed in wireways between terminal blocks, PLC, and devices. Reference Contract Drawings for control panel power distribution diagram and control panel elementary diagrams.

3.03 INSTALLATION

A. Wiring:

1. Install all equipment per Electrical Specifications [Electrical General].
2. All internal and field wiring shall be per Electrical Specifications [Low Voltage Wire].
3. Panel Wiring: All wiring shall be installed in wireways between terminal blocks and devices. Reference Contract Drawings for Control panel power distribution diagram and control panel elementary diagrams.
4. Field Wiring: Wireways shall be provided for field wiring. Reference Contract Drawings for control panel power distribution diagram and control panel elementary diagrams.

B. Cleaning:

1. The Contractor shall clean the inside of the control panel of any dust or debris remaining at the completion of installation and testing.
2. The Contractor shall exercise care when using a vacuum cleaner or compressed air such as not to damage any component within the panel.
3. Many electrical and computer components are open for ventilation.

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Falling debris can penetrate the openings and cause equipment failure. Equipment with debris inside shall be removed, cleaned and/or replaced.

3.04 FIELD ASSISTANCE

- A. Provide testing as specified in Electrical Specifications [Factory and Field Testing].

3.05 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

3.06 FINAL ACCEPTANCE

- A. Final Acceptance per Electrical Specifications [Electrical General].

END OF SECTION

SECTION 16910

PLC HARDWARE

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. Providing and installing Programmable Logic Controller (PLC) Hardware and all supporting hardware, wiring and devices as specified in Electrical Specifications.

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Low Voltage Wire and Data Cable]
- C. Electrical Specifications [PLC Application Programming]

1.03 SUBMITTAL REQUIREMENTS

- A. Provide submittals per Electrical Specifications [Electrical General, Submittal Requirements].
- B. Submit documentation showing the number and type of I/O modules required to meet the I/O requirements specified herein. Include complete manufacturer's part and model numbers.
 - 1. PLC I/O points are determined by the P&ID drawings. The Contractor shall count and total the PLC I/O points per PLC controller and per type of I/O required based on the P&ID diagrams. Provide 25% spare I/O points per I/O type per PLC.
- C. Submit calculations showing that the power supply meets the specified requirements and the requirements of the devices powered.
- D. Submit shop drawings showing physical backpan layout of equipment in Control Panel.
- E. Submit PLC communications block diagram showing I/O module order and slot location.
- F. Submit hardware Operations and Maintenance Manual per Electrical Specifications [Electrical General].

PART 2: PRODUCTS

2.01 GENERAL

- A. Provide PLC modules from a single family of products, using the same software and interchangeable I/O cards, that can be configured for a range of applications from small, uncomplicated sites to large, complex sites with a variety of equipment.

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- B. Size the PLC enclosure such that local I/O modules and supporting hardware required to meet the ultimate point count, as specified herein, will fit into the space of a single enclosure.

2.02 MECHANICAL

- A. Provide modular PLC consisting of I/O slot card cage, and plug-in processor, power supply, and I/O modules.
- B. Provide I/O modules with removable terminal strips so that I/O modules can be removed without disconnecting field wiring.

2.03 PLC COMPONENTS

- A. The following components (Modicon M340, no equal) shall be provided to complete the PLC systems. Only major components are listed. Multiples of some components are required - see Contract drawings.

- 1. Processor Modbus Serial, Ethernet (M340 P34 2020)
- 2. Flash Memory card Compact Flash 8Mb min (BMX RMS 008MP)
- 3. USB Cordset Mini B USB port cable (BMX XCA USB H0••)
- 4. Power Supply BMX CPS •0•0 as required
- 5. Digital Input Module (16-DC) BMX DDI 1602
- 6. Digital Output Module (16-DC) BMX DDO 1602
- 7. Analog Input Module (4-20mA) BMX AMI 0810
- 8. Analog Output Module (4-20mA) BMX AMO 0410
- 9. Rack (12 slot) BMX XBP 1200
- 10. Protective Covers BMXXEM010

2.04 ISOLATION/INTERFACE RELAYS

- A. Provide output isolation relays on all digital outputs that operate devices external to the control panel and on spare outputs or as otherwise shown in the drawings. The relay coil connection shall be on one side of the relay base and form-C output contacts on the other.
- B. Relays shall be 6A SPDT, coil voltage as required, indicating, plug in style as manufactured by Allen Bradley 700-HLT1U1 or equal. Provide jumper bars for common buss connections, Allen Bradley 700-TBJ20G, or equal.

2.05 ETHERNET SWITCH

- A. The unmanaged Ethernet switch shall have 8 ports with automatic uplink detection and OPC monitoring capability. Ports shall be auto-sensing 10/100/1000 Base-Tx with RJ-45, 8 pin female connectors, meeting IEEE 802.3 standards. Case shall be ventilated steel with provisions for wall or DIN rail mounting. Switch shall be suitable for power from 10 - 30 VDC. Switch shall be N-TRON 1008TX-N, no equal.
- B. The unmanaged fiber optic Ethernet switch shall have 2 SC fiber optic ports and 8 copper ports with automatic uplink detection. Ports shall be auto-sensing 10/100 Base-Tx with RJ-45, 8 pin female connectors, and one 10/100 base FX, meeting IEEE 802.3 standards. Case shall be ventilated steel with

provisions for wall or DIN rail mounting. Switch shall be suitable for power from 10 - 30 VDC. Switch shall be N-TRON 110FX2-SC, or equal.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].

3.02 INSTALLATION

- A. Fabrication
 - 1. Mount, wire and Ground PLC per manufacturer's recommendations.
 - 2. Organize equipment on control panel backpan per Backpan Layout detail in Contract drawings.
 - 3. Locate and install PLC(s) per Contract drawings.
- B. Wiring
 - 1. Terminate status, control and analog wiring on terminal blocks.
 - 2. Label and wire PLC to terminal blocks per Electrical Specifications [Wire, Fuses & Terminal Block] and Example I/O Wiring Diagram in the drawings.
 - 3. All spare I/O points shall be wired to terminal blocks.
 - 4. Install communication cables to connect the PLC to external devices.
 - 5. Bundle and tie down wires in a neat and orderly manner.
 - 6. Terminate drain wire of shielded cables at backpan terminal block only.

3.03 FIELD ASSISTANCE

- A. Provide testing as specified in Electrical Specifications [Factory and Field Testing].

3.04 WARRANTY

- A. Provide warranty per Electrical Specifications [Electrical General, Warranty].
- B. Perform the following services during the warranty period:
 - 1. Repair or replace damaged modules returned for service within 24 hours.
 - 2. Determine and report the cause of failure of modules returned for service.
 - 3. Resolve design or implementation problems discovered.

3.05 FINAL ACCEPTANCE

- A. Final Acceptance per Electrical Specifications [Electrical General].

END OF SECTION

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SECTION 16931
SECURITY SYSTEM

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. To be designed by Contractor similar to other City installations.
- B. Johnson Controls is preferred vendor.
- C. Work includes that specified in Electrical Specifications [Electrical General].

1.02 SUBMITTAL REQUIREMENTS

- A. Provide submittals and drawings as specified in Electrical Specifications [Electrical General, Submittal Requirements].
- B. Provide installation, operation and maintenance manuals.
- C. Provide programming manuals.

1.03 OPERATION AND MAINTENANCE INFORMATION

- A. Submit hardware Operations and Maintenance Manual per Electrical Specifications [Electrical General].

PART 2: PRODUCTS

2.01 SECURITY ALARM SYSTEM

- A. The Security Alarm Panel shall be surface wall-mounted, NEMA rated enclosure as shown in the electrical drawings and details and as specified herein.
- B. The security alarm system shall monitor alarm zone inputs and provide alarm locally and to remote reporting service upon breach of those inputs.
- C. The alarm system shall be enabled/disabled through Operator password input to the keypad.
- D. The security alarm panel shall consist of a base module, communications module, access module, zone alarm I/O modules, battery system, auxiliary relays, and remaining necessary panel components for system operation as described herein and shown in the plans.
- E. The security alarm panel shall supervise quantity of zones as defined in the P&IDs and shall be programmable by keypad. Each zone shall be programmable for latching or momentary conditions and have an LED status indicator.

- F. The security alarm panel shall be capable of dialing telephone number(s) to transmit alarms to a central operator.
- G. The Security Alarm Panel shall have the following minimum features:
 - 1. Have an assignable alarm zones for instant, delayed or motion alarms. Provide I/O capacity minimum to incorporate individual alarm I/O as shown in the electrical drawings and capability to expand to 64 alarm contacts minimum.
 - 2. The input power shall be 120 VAC, 60 Hz to a wall pack power supply. Providing a secondary voltage to the alarm mother board and auxiliary daughter boards. The panel shall contain backup battery power with battery charger and batteries. Batteries shall provide a minimum of 4 hours of backup power to the complete system.
 - 3. System shall provide status outputs (form C, 120 vac dry contact) defined as "alarm active" and "alarm set" for connection to the station control system.
 - 4. System shall accept a dry contact input from station control system for alarm toggle to turn the alarm on and off remotely through the station control system.
 - 5. Central station-based access control and reporting of alarm conditions, programming and monitoring of the security alarm system.
 - 6. Keypad display and operator interface.
- H. Provide Gemini X255 system or equal.

2.02 BASE MODULE

- A. The Base Module shall be the primary control unit for the security alarm system and shall interface with all other modules, devices, and provide communication with the central station-monitoring console.
 - 1. Arm/Disarm function that shall have the following features:
 - a. Up to 16 LCD and/or LED keypads, and automatic, automatic no-dial, or secure arming functions.
 - 2. Primary power shall be 120 Volts AC, 60 Hz, using 16.5 VAC, 50 VA, class 2 plug-in transformer. Backup battery power shall be a 12 VDC, 7 AH, sealed lead-acid rechargeable battery system with internal battery charger.
 - 3. Communications with Central Station includes Base Module RS-485 Port. The Base Module shall support alarm points which includes:
 - a. 16 total LCD and/or LED keypads.
 - b. Eight Expansion Modules.

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- c. Programmable alarm codes.
- d. Programmable access and arming.
- 4. Module shall have telephone line features such as dedicated and dial line settings, and RJ31X jack connection.
- 5. Annunciation shall include a local bell drive with 12 VDC at 1.25 Amp maximum, audible keypad beeper, and audio sensor annunciate Watch Mode & Entry/Exit.
- 6. Base Module shall be UL Listed and approved.
- 7. Base Module shall be Sonitrol to match Owner Standard.

2.03 ACCESS MODULE

- A. The Access Module shall add central station-based access control to the security alarm system. The Base Module shall interface and control the Access Module. The Access module shall have the minimum features:
 - 1. General features shall include:
 - a. Access control for up to 10,000 users, with 256 Access Levels.
 - b. 128 programmable Time Shifts & Time Periods per property.
 - c. Programmable outputs to control equipment, such as HVAC and lighting.
 - d. 8,000 event local buffer memory.
 - 2. There shall be 16 programmable (N.O., N.C. or both), supervised, hard-wired Alarm Loops featuring:
 - a. Four programmable door inputs.
 - b. 10 programmable, general-purpose alarm inputs.
 - c. One tamper input.
 - d. One global free-exit input (for fire evacuation).
 - e. Programmable alarm codes.
 - f. Assignable to any of eight separate arming zones.
 - 3. Auxiliary Outputs shall feature:
 - a. Six, 100mA, programmable hard-wired outputs.
 - b. One auxiliary output per access controlled door (four total).

- c. Two auxiliary outputs for general control.
- 4. Communications Access Module shall be RS-485 Port.
- 5. Access Module shall be UL Approved.
- 6. Access Module shall be Sonitrol to match Owner Standard.

2.04 SMART AUDIO MODULE

- A. The Smart Audio Module shall screen out common environmental sounds through the continuous scanning its audio channels. The Smart Audio Module shall analyze sounds according to a predetermined set of audio standards and when a noise is determined to be a possible intrusion, the central station shall be contacted. The Base Module shall interface and control up to eight SmartAudio or ListenIn Modules. The Audio Module shall be mounted locally inside Base module chassis.
 - 1. Audio functions shall feature:
 - a. Eight audio detection circuits.
 - b. Audio detectors assignable to any of eight separate arming zones.
 - c. Sensitivity adjustable from central station.
 - d. 16 audio sensor inputs (two per audio detection circuit).
 - e. Programmable audio sensor self-test at system arming and disarming.
 - f. Balanced audio output to Base Module.
 - 2. Communications Smart Audio Module shall be RS-485 Port.
 - 3. Smart Audio Module shall be Sonitrol Smart Audio Module to match Owner Standard.

2.05 LCD KEYPAD AND DISPLAY

- A. LCD keypad shall have the following minimum features:
 - 1. LCD type display with Wiegand or similar communication compatible with alarm system main control module.
 - 2. Operating temperature of 0 to 122 degrees F.
 - 3. Display shall be Alphanumeric LCD display with English description of alarm zone or other diagnostic information. Keypad shall have silicone rubber keys with numeric digits and shortcut keys for setting alarm and programming.

2.06 AUDIO SENSORS

- A. Determine all sensor placement locations, mounting necessary, and all environmental conditions that shall determine the working coverage area and distance for each audio sensor. Provide interface of sensors with the Smart Audio Module. The Audio Sensors shall have the following minimum features:
 - 1. Input power 12 VDC.
 - 2. Constructed with ABS plastic housing.
 - 3. Tamper switch rated to 500mA at 30 VDC.
 - 4. Coverage area shall be approximately 50 feet in front, 40 feet to each side and 15 feet to the rear.
- B. Audio Sensors shall be Sonitrol plus AudioSensor to match Owner Standard.

2.07 SECURITY DOOR SWITCHES

- A. Provide interface of all switches with the Smart Audio Module and determine all switch placement locations and all switch mounting as necessary.
- B. Security Door Switch
 - 1. Each security steel door switch shall have a wide gap magnetic sensor with S.P.D.T. contacts mounted an ABS in housing. Security door switch shall be Sentrol 1076 with color matching door.
 - a. Each security door switch shall be a recessed hermetically sealed magnetic reed switch with S.P.D.T. contacts. The reed shall be plotted in the contact housing with a polyurethane based compound and contact and magnet housing shall snap-lock into a $\frac{3}{4}$ " or 1" diameter hole. Contact and the magnet plastic housings shall be constructed from one piece of thick walled ABS plastic for maximum strength and durability. Housings shall be off-white in color. The magnet shall be made of Alnico
 - 1) The Rare Earth Magnet shall be made of neodymium iron boron.
 - b. Security door switches shall be designed for use in steel doors and shall have snap-lock insulation bushing for tight fit and maximum gap in steel. Magnetic switch shall be an A type contact, closed loop two wire suitable for security alarm systems, and shall be rated at 100 VAC, 0.5A maximum, 7.5 Watts maximum.
 - c. Security door switch shall be Sentrol R1078C series or equal.
- C. Overhead Door Magnetic Security Switch

1. Each overhead door security switch shall be designed specifically for panel or sectional style overhead doors. Contact shall have an integrated mounting bracket that is adjustable to fit most door channel widths. The contacts shall be constructed with a rugged extruded aluminum housing potted with a polyurethane potting compound, which shall make the unit corrosion resistant. Magnetic switch shall be an A type contact, closed loop two wire suitable for security alarm systems, and shall be rated at 100 VAC, 0.5A maximum, 7.5 Watts maximum.
2. Security overhead door switch shall be Sentrol 2315 series or equal.

2.08 ALARM SIREN

- A. Alarm siren shall meet the following requirements:
 1. 12 VDC, 1.9 Amps and with sound output of 112 dBA at 10 ft.
 2. Polycarbonate housing with rust proof screw, "potted" electronics condensation drainage holes making siren corrosion resistant.
 3. Alarm siren shall be protected against foam injection, removal of cover or prying from the wall, and provide a "hold-off" circuit which activates the siren from internal battery if external wiring is cut.
 4. Tone Module: Wail – Conventional Siren.
- B. Alarm Siren shall be Sentrol AS 395 series or equal.

2.09 SECURITY ALARM PANEL ZONES

- A. The sensors shall be connected to 16 distinct zones as submitted and approved.
- B. See Contract Drawing P5 for the Security Alarm System Block Diagrams.

2.10 CARD READER

- A. Card Reader shall be outdoor rated, compatible with door mullions. Reader shall recognize card formats up to 85 bits. Card reader shall be HID ProxPoint Plus to match Owner standard.

2.11 PROXIMITY DEVICE

- A. Handheld proximity device shall be small enough to fit on a key ring, contain a programmable ID number and be compatible with card reader. Provide thirty (30) HID ProxKey II devices to match Owner standard.

2.12 ELECTRIC STRIKE PLATE

- A. Electric strike shall be provided with 12/24V dual voltage solenoid, adjustable keeper and adjustable fail-safe/fail-serve. Electric Strike shall be Von-Duprin 5100 series to match Owner standard.

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2.13 MOTION DETECTORS

- A. Motion detector shall suitable for indoor use and use dual technology to detect motion. Provide Gemini GEM-DT or equal.

2.14 LIGHT BEAMS

- A. Light beams shall detect the intruders by emitting a light from one unit to be received by a similar unit. In the event the beam of light between the devices is broken, the alarm output shall trigger.
- B. Features:
 - 1. Capable of outdoor ranges up to 500 ft with automatic gain control.
 - 2. Twin infrared transmitters and receivers to reduce the potential for alarms from small animals, blowing debris and falling leaves.
 - 3. Light beams operate by only triggering an alarm when both beams are broken simultaneously.
 - 4. Adjustable beam interruption time 50 to 500 mSec.
 - 5. Viewfinder and voltage meter jacks to aid in installation setup.
 - 6. Power input from 10.5 to 30 VDC, 50mA.
 - 7. Form C alarm output contact, 1 A, 30 VDC.
 - 8. Wall or pole mounting.
 - 9. Adjustable beam alignment up to +/- 10 degrees from horizontal.
 - 10. Suitable for outdoor installation in full sun with operational temperature range from -13 to 131 deg F.
- C. Light beams shall be Optex AX-500PLUS or equal.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].
- B. Requirements of Electrical Specifications Sections apply to design, documentation construction, configuration and testing and assembly the alarm systems.
- C. Perform work to remedy non-compliant installations after inspection.

3.02 INSTALLATION

- A. Wire control panels in field utilizing terminal blocks for all field connections in main panels.
- B. Make final connections at field devices and adjust for proper operation.
- C. Test entire system for operation. Each remote trip function shall be tested to produce alarm and be noted on display.
- D. See electrical symbols and abbreviations drawing for symbol definition.
- E. All work shall conform to local codes and 1999 National Electric Code.

3.03 FIELD ASSISTANCE

- A. Testing, checkout and start-up of the security system shall be performed under the technical direction of a factory trained authorized manufacturer representative.
- B. Document the setup and configuration of parameters within the security system for review and as-built documentation.
- C. Provide 1 hour of "System Setup" Training on operating and maintenance procedures.

3.04 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

END OF SECTION

SECTION 16932

ACCESS CONTROL SYSTEM

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. Labor, materials, equipment, tools, safety gear, test equipment, incidentals, services, and transportation for a complete electro-mechanical installation as shown on the Drawings, included in these Specifications, or as can be reasonably implied from project descriptions.
- B. To be designed by Contractor similar to other City installations.
- C. Johnson Controls is preferred vendor.
- D. The Access Control System scope of work includes:
 - 1. Provide and install miscellaneous access control devices, conduits, junction boxes, field interconnection wiring, and associated hardware.
 - 2. Program, configure and test system for operation.
- E. The Access Control scope of work includes:
 - 1. Providing and installing Access Control of rating shown on Contract Drawings.
 - 2. Submittal data and drawings.
 - 3. Startup assistance.
 - 4. Field testing.
 - 5. Training
 - 6. Operation and maintenance manuals.
 - 7. Warranty of all components and technical support.
- F. Work includes that specified in Electrical Specifications [Electrical General].

1.02 SUBMITTAL REQUIREMENTS

- A. Provide submittals and drawings as specified in Electrical Specifications [Electrical General, Submittal Requirements].

1.03 OPERATION AND MAINTENANCE INFORMATION

- A. Submit hardware Operations and Maintenance Manual per Electrical Specifications [Electrical General].

PART 2: PRODUCTS

2.01 ACCESS CONTROL SYSTEM (ACS)

- A. General

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1. The ACS shall be capable of performing and integrating multiple security functions including the configuration, management and monitoring of cardholder access, hardware units (controllers), events, alarms, visitors, tenants, as well as real-time tracking and reporting.

B. System Architecture

1. The ACS shall be highly scalable and include provisions for future growth.
2. The ACS shall be based on an open architecture to support multiple access control hardware manufacturers. The ACS shall be able to integrate with multiple non-proprietary interface modules and controllers, access readers, and other third party applications.
3. The ACS shall be both a multi-user and a multi-tasking environment.
4. The ACS shall be an IP enabled solution. All communication between the hardware controllers shall be based on standard TCP/IP protocol.

C. System Design Guidelines

1. The ACS shall be compatible with multiple 32-bit operating systems. The ACS client and server modules shall run on Windows XP Professional with Service Pack 3 or Windows Server 2003 with Service Pack 1.
2. The ACS shall be designed using the latest and most advanced design tools.
 - a. The core client/server software shall be built using Microsoft .NET and the C# (C-Sharp) programming language.
 - b. The ACS database server(s) shall be built on Microsoft's SQL Server 2005, including SQL 2005 Express Edition.

D. System Scalability and Capacity

1. The ACS shall be capable of supporting a wide range of configurations. The ACS shall be capable of supporting small access control configurations that consist of a single door and one reader. The ACS shall also be highly scalable to support configurations consisting of a multitude of doors with facilities spanning multiple geographic areas.
2. The ACS shall be upgradeable one entity at a time, for example: 1 credential at a time, 1 door at a time, 1 cardholder at a time, etc.
3. The ACS shall support an unlimited number of Access Server modules. Each Access Server shall support several hundred hardware controllers.
4. The ACS shall support an unlimited number of logs and historical transactions with the maximum allowed being limited by the amount of

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hard disk space available.

E. System Security and Encryption

1. Communication between the hardware controllers and server shall be encrypted. The encryption method shall use a 128-bit AES encryption algorithm (at a minimum).

2.02 SERVER SOFTWARE

A. Overview

1. The SSM shall be responsible for receiving, processing and responding to requests from the CSA. The SSM shall consist of a Configuration Server and an Access Server. Several Access Server modules shall be supported per Configuration Server.
2. The SSM shall automatically launch at computer startup, irrespective of whether a user is logged onto the machine or not.

B. Configuration

1. The Configuration Server shall be the central database that contains all the system information and component configuration.
2. The Configuration Server shall support the configuration and management of the following components.
 - a. Door Controllers (hardware units)
 - b. Input and Output (IO) modules (hardware units)
 - c. Doors
 - d. Elevators
 - e. Areas
 - f. Dynamic Graphical Maps
 - g. Cameras
 - h. Schedules
 - i. Access rules
 - j. Cardholders and cardholder groups
 - k. Credentials
 - l. Events/Actions
 - m. Alarms
 - n. Users and user groups
 - o. Security Partitions
 - p. Macros
 - q. Scheduled tasks
 - r. Custom events
 - s. Custom output behavior
 - t. Input – Output (IO) linking
 - u. Custom fields
3. At system startup, the Configuration Server shall download all the configuration information to each Access Server under its control.

4. The Configuration Server shall authenticate users and give access to the ACS based on predefined user access rights or privileges.
5. The Configuration Server shall continuously monitor the following:
 - a. Server application connections
 - b. Controller connections

C. Access

1. The Access Server shall be the server that synchronizes all hardware units under its control. The Access Server shall also be able to validate and log all access activities and events when the controllers are online.
2. The Access Server shall maintain the communication link with the hardware controllers under its control. It shall also continuously monitor whether the controllers are online or offline.
3. Synchronization of hardware units shall be transparent to users and shall occur in the background.
4. The Access Server shall support doors and controllers located within one or more facilities.
5. The Access Server shall download information on the following entities to make the appropriate access decisions:
6. Hardware door controllers and IO Modules
 - a. Doors
 - b. Elevators
 - c. Zones (input points)
 - d. Areas
 - e. Cardholders
 - f. Cardholder groups
 - g. Credentials
 - h. Access rules
 - i. Schedules
7. The Access Server shall store all access events associated with the doors, areas, zones (input points), elevators, and controllers under its direct control.
8. When the information available is not sufficient to make a decision, e.g. the cardholder is unknown; the Access Server shall automatically send a request to the Configuration Server for an update.

D. Monitoring

1. In the event of a malfunction or failure, the Server Monitoring Service shall restart the failed service. As a last resort, the Server Monitoring Service shall reboot the PC should it be unable to restart the service. It

shall also offer the capability to manually start and/or stop one or more of the hardware units.

2. The Server Monitoring Service user interface (UI) shall be accessible from the system tray. The Server Monitoring Service UI shall provide the user with the following:
 - a. A real-time list of hardware units running on a PC
 - b. The status of the hardware units (started or stopped)
 - c. A log of status-related events and associated timestamps
 - d. Telnet console to log onto a hardware unit

E. Web Client

1. The Web Client shall allow users and operators to perform configuration, management, and reporting activities.
2. Web Client shall be accessible through Microsoft Internet Explorer.
3. The Web Client shall be a truly thin client. It shall not require the download of any ACS-specific files or executable on the client workstation.
4. Functionality available through the web client includes.
 - a. Configuration and management of cardholders and cardholder groups
 - b. Configuration and management of credentials
 - c. Configuration and management of access rules
 - d. Badge printing over the network
 - e. Assignment of access rules to doors and areas
 - f. Visitor management including visitor check-in and check-out and reporting
 - g. Advanced reporting

F. Software Compatibility List (SCL)

1. The ACS shall interface with IP-enabled hardware access controllers, interface modules, and IO modules.
2. The ACS shall have an open architecture that supports the integration of third party IP-based door controllers. Through these door controllers, the ACS shall interface with industry standard access control readers.

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3. The ACS shall have an open architecture that supports the integration of third party IP-based IO hardware modules. Through IO modules, the ACS shall interface with multiple input points and connect to multiple output relays.
4. The ACS shall simultaneously support mixed configurations of access control hardware from multiple vendors.
5. The ACS shall support multiple types of hardware devices:
 - a. Single-reader controllers
 - b. 2-reader controllers
 - c. 1- to 64-reader controllers
 - d. Integrated readers and door controllers
 - e. Power-over-Ethernet (PoE) enabled door controllers
6. The ACS shall support multiple hardware configurations:
 - a. IP edge devices (door controllers and IO modules)
 - b. Multidrop configuration using the RS-485 configuration protocol
7. The ACS shall support a minimum of the following IP-enabled controllers. For a description of the capabilities of the controller, refer to the controller's A&E specification, or equal.
 - a. Specialty Sensors Technologies Inc.
 - 1) ACIM102A door controller
 - 2) ACIM102B door controller
 - 3) ION168 IO module
 - b. HID Corporation
 - 1) VertX V2000 reader interface/network gateway
 - 2) iCLASS EdgeReader integrated reader and controller (PoE)
 - 3) iCLASS EdgePlus door controller (PoE)
 - 4) VertX V1000 network gateway
8. The ACS shall support most industry standard card readers that output card data using the Wiegand protocol.
9. The ACS shall support HID Clock-and-Data readers.

G. Hardware

1. System shall be installed on SCADA Historical Data Server or other as defined during construction.

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PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].
- B. Requirements of Related Electrical Sections apply to design, documentation construction and assembly of Access Control System.
- C. Perform work to remedy non-compliant installations after inspection.

3.02 INSTALLATION

- A. All work shall conform to local codes and National Electric Code.

3.03 FIELD ASSISTANCE

- A. Provide 1 hour of "System Setup" Training on operating and maintenance procedures.

3.04 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

END OF SECTION

SECTION 16933

VIDEO MONITORING SYSTEM

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. Providing and installing video monitoring and control system.
- B. To be designed by Contractor similar to other City installations.
- C. Johnson Controls is preferred vendor.

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Low Voltage Wire & Data Cable]
- C. Electrical Specifications [Control Panel]

1.03 SUBMITTAL REQUIREMENTS

- A. Provide submittals per Electrical Specifications [Electrical General, Submittal Requirements].
- B. Computer with recording device.
- C. Cameras, software, cabling, special installation requirements.
- D. Camera communications block diagram.

1.04 OPERATION AND MAINTENANCE INFORMATION

- A. Submit hardware Operations and Maintenance Manual per Electrical Specifications [Electrical General].

PART 2: PRODUCTS

2.01 VIDEO CAMERA

- A. Video camera shall be 5.0 MP high-quality, Ethernet IP POE, high-resolution color video camera with a manual variable focus lens and auto-iris, gain and white balance. It shall provide quality video in a wide variety of lighting conditions.
 - 1. Camera shall be suitable for outdoor pole mounting with rain and sunshield protection.
 - 2. 13 image/sec at full resolution
 - 3. 3-9 mm Lens with 28 – 84 degree field of view.
 - 4. Pole mounting bracket and junction box.
- B. Aviglon HD Bullet Camera 5.0-H3-BO1-IR or equal.

2.02 NETWORK VIDEO RECORDER NVR SYSTEM

- A. Provide NVR system meeting the following minimum requirements.
 - 1. 8 video input channels with RJ-45 POE connectors

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2. 8 channel license with 5 viewing clients.
 3. 10MB/s Recording Rate
 4. 4TB minimum hard drive
 5. Continuous 1080P recording on all channels minimum up to 10MB/s aggregate.
 6. Rack mountable bracket
- B. Avigilon HD Video Appliance VMA-AS1-8P4, or equal.
- 2.03 NETWORK VIDEO SYSTEM ACCESSORIES
- A. Keyboard: USB with 10 ft cord.
 - B. Mouse: Optical wheelmouse.
 - C. Video Monitor, 24" 1080p resolution, HDMI.
 - D. HDMI cable as required
- 2.04 SECURITY DESK
- A. The security desk shall be made from sheet steel and painted gray with oven dried enamel paint.
 1. Slanted writing surface with 4 compartment organizer above that can hold monitor.
 2. Adjustable legs from 36" to 42.5" height.
 3. Dimensions: 30" D x 36" W top surface.
 - B. Acceptable products: Uline H-2058 or equal.
- 2.05 CAMERA POLES
- A. The camera poles shall be as shown in the contract document details.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. All work in this Section shall conform to the codes and standards specified in Electrical Specifications [Electrical General, Workmanship].

3.02 FABRICATION

- A. Install Computer loaded with camera monitoring software prior to shipment to project site.
- B. Mount, wire and ground computer, power supplies, hubs, etc to survive shipping and installation. Remove computer and other devices for shipment as necessary for security or physical protection reasons as deemed required by manufacturer.

- C. Organize equipment on control panel backpan per Backpan Layout detail in Contract drawings.
- D. Locate and install control panel per Contract drawings.

3.03 WIRING

- A. Terminate CAT 5 cabling using RJ-45 plug connectors.
- B. Terminate RG6 cabling with BNC type or appropriate connectors.
- C. Terminate power cabling above grade using wire nuts within the pole.
- D. Label and wire terminal blocks per Electrical Specifications [Wire, Fuses & Terminal Blocks].
- E. Bundle and tie down wires in a neat and orderly manner.

3.04 INSTALLATION

- A. Install camera poles per installation details.
- B. Install equipment per Electrical Specifications [Electrical General, Installation].

3.05 FIELD ASSISTANCE

- A. Factory test camera system prior to shipment to project site (un-witnessed).
- B. Configure system per Owner Representative's requirements after installation.
- C. Confirm video storage and retrieval of historical archive.

3.06 TRAINING

- A. Provide 2 hours training on use, configuration, set-up and troubleshooting of the cameras and systems.

3.07 WARRANTY

- A. Provide warranty per Electrical Specifications [Electrical General, Warranty].
- B. Perform the following services during the warranty period:
 - 1. Repair or replace damaged modules returned for service within 24 hours.
 - 2. Determine and report the cause of failure of modules returned for service.
 - 3. Resolve design or implementation problems discovered.

3.08 FINAL ACCEPTANCE

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A. Final Acceptance per Electrical Specifications [Electrical General].

END OF SECTION

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SECTION 16940

INSTRUMENTATION

PART 1: GENERAL

1.01 SCOPE OF WORK

- A. The major components in the instrumentation scope of work are:
 - 1. Furnish, configure, test, commission, and warrant instrumentation as shown in the P&IDs, plans, and/or listed in specification section.
 - 2. Include necessary piping, valves, pressure reducers, mounting brackets or flanges, supports, and anchors to complete installation.
 - 3. Provide sunshades for instrumentation for all instruments that are exposed to direct sunlight.
- B. System Integrator selection of instrumentation shall be per manufacturer's recommendation for the application and per specifications. If a manufacturer's recommendation or installation instructions are inconsistent with the Contract installation details or specifications, then the Contractor shall submit an RFI describing the inconsistency. If the inconsistency is due to substitution from the first named equipment, then the responsibility of coordination and any additional cost shall be borne by the Contractor.
- C. Provide all devices, valves, tubing, fittings, wiring, terminal blocks, calibration consumables, initial calibration equipment, accessories, sunshades and enclosures as specified herein and as shown on Contract Drawings.
- D. The Contractor shall furnish all tools, calibration equipment, calibration materials, specialized parts and incidentals necessary to integrate the instrument to the application.
- E. Contractor shall furnish labor for installation, verification, start-up, calibration, testing and commissioning. Contractor shall prove proper function of instrument prior project completion.

1.02 REFERENCES

- A. Electrical Specifications [Electrical General]
- B. Electrical Specifications [Factory and Field Testing]

1.03 SUBMITTALS AND DRAWINGS

- A. Submit shop documents and drawings for approval in accordance with this subsection and as specified in Electrical Specifications [Electrical General, Submittal Requirements].
- B. Submit Operating Instructions (O&M Manuals) for each instrumentation device prior to equipment installation.

1.04 OPERATING AND MAINTENANCE INFORMATION

- A. Provide operating instructions as specified in Electrical Specifications [Electrical General, Operating and Maintenance Instructions].

PART 2: PRODUCTS

2.01 QUALITY

- A. Electrical Specifications [Electrical General, Quality].
- B. All equipment shall be designed and constructed so that in the event of a power interruption, the equipment specified hereunder shall resume normal operation without requiring a manual reset.
- C. Signal transmission from remote or field electric and electronic devices shall be 4-20 mA, sourced by a 24 VDC supply internal to the instrument or from a 24 VDC power supply located within the panel that is to receive the signal. Nonstandard transmission methods such as impulse duration, pulse rate, and voltage regulated will not be permitted except where specifically noted.
- D. Transmitters or devices located in Class 1, Division 1 hazardous areas shall be rated for hazardous location installations per NEC and UL. Explosion proof enclosures and raceways or current/spark limiting devices located inside or outside of the classified area shall be furnished to comply with code requirements.
- E. Outputs of equipment that are not of the standard signals as outlined, shall have the output immediately converted to 4-20 mA signals for remote transmission.

2.02 INSTRUMENT IDENTIFICATION

- A. All major instrumentation and equipment items or systems specified in this Division and/or on the P&IDs are identified by tag numbers. Tag field equipment with assigned instrumentation tag number and functional description.
- B. Tags shall be laminated phenolic material having engraved letters approximately 3/16 inch high extending through the black face into the white layer; firmly secured to panels.
- C. Attach tags to equipment with a 4" long, 20-gage stainless steel wire leash for small devices, or two stainless steel screws for larger instruments; however, such permanent attachment shall not be on an ordinarily replaceable part or in an area that will be subject to unintended overuse fatigue. Make the tag plainly visible.

2.03 LEVEL COMPONENTS

- A. Ultrasonic Level Transmitter:
 - 1. The ultrasonic level transmitter shall utilize non-contacting ultrasonic

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signal reflection technology to provide level monitoring for up to 50 ft range.

2. The transmitter shall feature advanced echo processing algorithms that can be configured to ignore selected echos.
3. The transmitter shall be capable of controlling two pumps in a lead/lag configuration or using outputs for high and low level alarm outputs.
4. The transducer level element (LE) shall have the following features:
 - a. Corrosion resistant plastic body, completely submergence rated.
 - b. Rated for Class 1, Div. 1 hazardous atmospheres.
 - c. Operating temperature of -40 to 200 deg F.
 - d. Beam angle (degrees) as required for the application and to avoid obstructions.
 - e. Beam range as required for the application.
5. The level indicating transmitter (LIT) shall have the following features:
 - a. NEMA 4X / IP65 enclosure.
 - b. Ground isolated 4-20 mA output, max load of 750 ohm.
 - c. Two 5 amp at 120V AC, SPDT relays.
 - d. Integral 4 button keypad for configuring parameters.
 - e. Integral 1.5" x 4" (min) backlit LCD display.
 - f. Operating temperature range from -40 to 140 deg. F.
6. The calibration of the level transmitter and cable length shall be as shown in the instrument schedule.
7. Provide one hand held or integral programming interface with each transmitter provided.
8. The ultrasonic level/flow transmitter shall be Endress and Hauser Prosonic S FMU90, Siemens Hydromat 200, or equal

B. Float Switch

1. Tilting float level switches shall be a mercury free float switch, whose specified weight is less than that of the process liquid displaced, to actuate switches as the level changes. The non-mercury hermetically sealed snap action switch is actuated by a steel ball rolling back and forth within a switching tube in plastic float housing. The SPDT switch shall be rated 16A at 250 VAC shall be integrally mounted in the float and connected to a control box by a PVC jacketed waterproof electric cable with three finely stranded No.17 conductors. The weight shall be integrally mounted so that no metals shall contact the process liquid. Tilting type level switch shall be MJK Model 7030, or equal.

C. Chemical Leak Sensor

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1. Non-tilting level switch vertical buoyancy sensor shall consist of a hermetically sealed reed switch that is approximately 1" diameter x 2.1" high. The entire switch shall be submersible rated. The switch shall be actuated by magnets mounted inside the float cylinder. The float shall be non-tilting and shall detect liquid level changes without any movement of the switch housing. The switch shall be cord-hung and fabricated of polypropylene. The switch shall be rated for 0.25 amp at 120 VAC and shall be capable of normally open or normally closed contact configuration simply by rotating the cylindrical float end for end. The float switch shall be Omega LVN-140, Gems or equal.

2.04 PRESSURE COMPONENTS

A. Gauge, Absolute, or Differential Pressure Transmitter:

1. The pressure indicating transmitter shall be a loop powered, two wire, 4-20 mA signal transmitting device with signal derived from the applied sensor pressure. Transmitter shall be capable of driving 0 to 500 ohm loads with 24 VDC supply.
2. The transmitter shall have the following features:
 - a. Programmable 4-digit Liquid Crystal Display (LCD) process indicator.
 - b. HART programming with programming selections for square root extraction, output calibration, and adjustable dampening 0.0 to 36.0 seconds, minimum.
 - c. Integral microprocessor based circuitry with RFI filtering and shielding.
 - d. The transmitter shall have accuracy of +/- 0.1% of span over a range of minimum 10 to 1 turndown. Elevated zero setting capable of 0-30% upper calibration limit.
 - e. Operating temperature range shall be -40 to 185°F (minimum). Process wetted materials shall be compatible with fluid being measured with minimum hastalloy or ceramic diaphragm and 316 stainless steel wetted parts.
 - f. Process connection shall be as follows:
 - 1) Low solids content - 1/2" MNPT with calibration valve.
 - 2) High solids content - 1-1/2" or 2" flange with flushing ring and valve.
 - 3) And as required per installation detail.
 - g. The transmitter shall be scaled as shown in the instrument schedule.

3. Provide mounting bracket per mounting requirements shown in Contract drawings.
4. The gauge pressure transmitter shall be Endress and Hauser Cerabar M PMC 71, Rosemount Smart 3051, or equal.

B. Calibration Valve:

1. Calibration valve for use with gauge transmitters shall have the following features:
 - a. Stainless steel body with integral blocking valve and calibration valve and port.
 - b. Calibration port shall be 1/4" FNPT with 1/4" MNPT x 1/2" FNPT adapter.
 - c. Valve shall have a non-rotating stem tip and a fully backseated bonnet.
 - d. Process and transmitter connections shall be 1/2" MNPT. Include 1/2" stainless steel close nipple as required.
2. Calibration valve shall be Hex HB59, Anderson Greenwood, or equal.

C. Pressure Switch:

1. Each pressure switch shall be SPDT rated minimum of 15 amps @ 120VAC. Pressure switch shall consist of a pressure sensing mechanism and the switch itself enclosed in a NEMA rated housing. Pressure switch shall be diaphragm type with stainless steel wetted parts and mechanical snap action switch. Switch shall have two setpoint adjustments (trip & reset setpoints) with setpoint indicator calibrated in engineering units. Pressure switch shall be UL listed. The pressure switch shall be Static-O-Ring 66 Series, Ashcroft B series; ASCO or equal.

D. Pressure Gauge:

1. The pressure gauge shall be 1% accurate with C-type bourdon tube. The bourdon tube, socket and connection tube of the gauge shall be 316 stainless steel. The case and bezel ring shall be constructed of type 304 stainless steel. The dial shall be 3-1/2" in diameter with a black pointer and a white gauge face with black print. The gauge shall be filled with liquid glycerin. A bottom mount process connection shall include a snubber as a separate component. The process connection shall be 1/2" stainless steel. The pressure gauge shall be Ametek gauge model 1535, Ashcroft 1009, or equal.

2.05 FLOW COMPONENTS

A. Magnetic Flow Meter:

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1. The magnetic flow meter shall consist of a flow tube FE and a converter FIT, complete with interconnecting cables.
2. The magnetic flow meter shall be of the low frequency electromagnetic induction type and shall produce a DC pulse signal directly proportional and linear to the flow rate, with the duration not less than 100 milliseconds. Complete zero stability shall be an inherent characteristic of the metering system. Meters requiring field zero adjustment will not be acceptable. The meter accuracy shall not be affected by changes in fluid pressure, temperature, viscosity, or conductivity.
3. Accuracy
 - a. The maximum error of the complete metering system including flow element and flow indicating transmitter shall be 0.30% of actual flowrate (in specified units) and readout over the range of full scale velocity settings from 1 to 30 feet per second. Variations in temperature, voltage, and frequency within the ranges listed herein shall not affect the overall measuring accuracy.
 - b. The flow meter shall not require more than three diameters of straight pipe length from the center of the meter to upstream or downstream obstructions to obtain specified accuracies.
 - c. Lack of straight pipe or obstructions to straight length pipe requirements shall not cause overall flowmeter inaccuracies to exceed more 0.5% of actual flowrate over the range of full scale settings from 1 to 30 feet per second.
4. Flow Element (FE)
 - a. The flow element shall be based on a pipe spool with ANSI class 150 flange connections or be flangeless construction as required by mechanical drawings. Class 300 flanges shall be provided where shown or when the pressure and temperature of the process fluid exceeds the rating of a 150 lb flange. The flow element size shall be as shown in the mechanical drawings and listed in the Instrumentation Schedule. Flange type and bolt pattern shall be coordinated with the mechanical Contractor prior to submittal.
 - b. The flow element shall have Hastalloy C4 coil and grounding electrodes.
 - c. Stainless steel grounding rings shall be provided at both ends of the flow element for all flowmeter applications. Grounding rings shall be manufactured from stainless steel, 2 mm thickness with grounding tab for electrical wire connection, and fit within the flange bolt circle. Grounding ring shall be self centering within pipe.

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- d. The flow element internal liner material shall be Teflon, polyurethane or hard rubber, unless recommended otherwise by the manufacturer for the application and approved.
 - e. Nema rating as defined in the Instrumentation Schedule.
5. Flow Indicating Transmitter (FIT)
- a. The electronic flow indicating transmitter shall be mounted remotely from flow tube as shown on Contract drawings.
 - b. The electronic transmitter shall be provided in a NEMA rated enclosure per the Instrumentation Schedule.
 - c. The transmitter shall be interchangeable with all sizes of flow elements and shall be field replaceable (without replacing flow element) in the event of transmitter failure.
 - d. The transmitter shall be microprocessor controlled, utilizing digital signal processing with automatic zero correction to provide a linear 4-20 mA signal proportional to flow rate.
 - e. The transmitter shall incorporate a high impedance amplifier of 100,000 Megohms or greater, eliminating the need for electrode cleaning systems.
 - f. The transmitter shall contain a self test mode to allow the operator to manually simulate the output 4-20 mA signal to any value between 0% and 100% to check out any driven devices in the loop.
 - g. Rate indicator and totalizer: An alphanumeric LCD backlit display shall be provided to continuously display the flowrate and totalizer with units and all programming functions.
 - h. All programming configuration of the Flowmeter shall be completed through the transmitter's pushbutton interface. A communication device shall not be necessary to configure the flow transmitter.
 - i. PC based software shall be available and included for configuration and troubleshooting. Connection to flowmeter shall be via computer USB port and include interface cables as required.
 - j. The transmitter shall be designed for operation from a power source of 120 volts AC, with a power consumption of less than 20 watts. The flow element shall be powered from the transmitter.
 - k. The transmitter shall operate continuously without fault in an ambient temperature range from 14 to 140 °F. The flowmeter shall be suitable for operation in direct sunlight without the use

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of a sunshade. If a sunshade becomes required after installation for any operational reason, one shall be furnished and installed free of charge.

- I. The following configurable parameters shall be provided at a minimum:

- 1) Field adjustable flow signal dampening.
- 2) Low flow cutoff (forces zero flow signal) between 0.0-5.0% of full scale rate.
- 3) Empty pipe detection (forces zero flow signal) if the pipe is not full.
- 4) Selection for forward/reverse/both flow directions.

6. Flow Indicating Transmitter (FIT) I/O Interface

a. Network Communication

- 1) The transmitter output(s) shall be integral to the magnetic flowmeter transmitter electronics; and must be located within the transmitter housing. Using an external signal converter is not acceptable.
- 2) Protocols
 - i Ethernet Schneider Automation Modbus TCP
 - ii No equal.
- 3) The transmitter output selected must be supported by add-on instructions (AOI), add-on profiles (AOP), that can be imported to the Programmable Logic Controller specified in the is project. AOIs and AOPs include device drivers, instructions and pre-engineered PLC code.

- b. Flow Signal: 4-20 mA signal proportional to the flow. The signal shall be field configurable for the flow calibration specified and others within the flow tube accuracy range. The flow signal shall be capable of measurement for forward and reverse flows combined by offsetting zero to mid scale (12 mA).

7. If the flow indicating transmitter (FIT) is shown in the Contract drawings to be mounted remotely from the flow element (FE), the manufacturer shall provide all cabling between flow element and flow indicating transmitter.

8. All mounting hardware and/or devices necessary to complete the installation shall be provided by the manufacturer at no additional cost to the Owner.

9. The meter shall be hydraulically calibrated at a facility located in the United States and the calibration shall be traceable to the National Bureau of Standards. A certified copy of the calibration test results shall be submitted to the Owner prior to shipment of the meter.
10. The magnetic flowmeter shall be Endress and Hauser Promag 400L, or equal.

B. Flow Switch:

1. The flow switch shall be vane operated to actuate 5A SPDT snap action switch. Motion of the vane shall actuate the switch by action of a magnet linked to the switch inside the sealed stainless steel switch body. Flow switch shall be W.E. Anderson Dwyer Flowtect V4 or equal.

2.06 ANALYTICAL ELEMENTS

A. Chlorine Residual:

1. Description: Direct sensing chlorine analyzer to monitor a continuous flow of process water to determine free chlorine residual level.
2. The microprocessor based analyzer shall continuously display the chlorine residual with range as shown on the Instrumentation Schedule.
3. The measuring cell shall provide continuous on-line measurement of residual levels from 0-5 mg/l to 0-20 mg/l. The display shall be capable of 0.01 mg/l resolution (min) for the lower scale range.
4. Operating temperature: 32° F to +122° F. Provide sunshade when exposed to direct sunlight.
5. Analyzer Electronics.
 - a. The analyzer shall be controlled by microprocessor based electronics powered from 120 VAC. Analyzer shall be protected from voltage fluctuations commonly found in water/wastewater applications. Additional external noise filtering shall be provided as necessary for a robust and operational system. System lock-ups or microprocessor malfunctions will be grounds for rejection throughout the warranty period.
 - b. Analyzer electronics shall be enclosed in a NEMA 4X polycarbonate enclosure.
 - c. User interface shall include a membrane keypad and backlit LCD display.
 - d. Alarm conditions shall be identified through the display.
 - e. The system shall have one isolated 4-20 mA output which represents chlorine residual and scaled by the user during

commissioning from a selected list of ranges from 0-0.1 to 0-50 mg/l. Output signal shall be configurable to desired span without recalibration of the sensor

- f. Three (3) user configurable alarm relays shall be provided for low residual, high residual and diagnostic conditions.

- 1) Relay contacts shall be rated 5 amperes at 110 V.

6. Probe

- a. Membraned aperometric sensor probe with electrolyte fill liquid. Maximum pressure or flow at probe shall not be exceeded.
- b. The probe shall include temperature sensor for temperature compensation in chlorine measurement.
- c. The pH sensor shall include the flow thru cell and sensor for online measurement.
- d. Include flow cell and associated valves, pressure regulators, tees, strainers and piping for complete installation in the intended location. Installation of flow cell piping shall maintain liquid on probe surface even when flow is shut off.

7. Spare Parts.

- a. One year supply of consumable materials as recommended by manufacturer.
- b. On spare electrode, complete unit with plug-in to transmitter.

- 8. Chlorine Analyzer shall be Hach CLF10sc with flowcell and SC200 controller to match existing.

2.07 TEMPERATURE DEVICES

A. Room Temperature Transmitter:

- 1. The temperature indicating transmitter shall provide display of temperature and provide linear output signal derived from the temperature of the integral or remote RTD measuring sensor.
- 2. Temperature Transmitter
 - a. Loop powered, two wire, 4-20 mA, capable of driving 0 to 500 ohm loads from 24 VDC supply.
 - b. 3-1/2 digit, 0.37"H, Light Emitting Diode (LED) display.
 - c. Zero and span adjustments for display and temperature transmitter.

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- d. The transmitter shall have accuracy of +/- 0.5% of span over an operating temperature range of 0 to 150°F.
 - e. Furnish remote RTD for outdoor temperature measurement as required per plan.
3. The wall mount transmitter shall be Devar Model RTTI(-R) or equal.

2.08 EVENT, STATE OR POSITION DEVICES

A. Position Switch:

- 1. Door switch – door intrusion switch shall have a wide gap magnetic sensor with S.P.S.T. contacts mounted in an aluminum housing with integral jacketed cable for wiring to a junction box. Switch contacts shall have 0.1A at 120VAC minimum capability. When attaching to a ferrous metal surface, space sensor components away from metal by minimum ¼" using plastic spacer in order to maintain magnetic gap. Intrusion door switches shall be Sentrol 151-6Z-12K or equal.
- 2. Overhead door switch – door intrusion switch shall have a wide gap magnetic sensor with S.P.D.T. contacts mounted in an aluminum housing with integral 3 foot stainless steel armored cable for wiring to a junction box. Switch contacts shall have 0.5A at 120VAC minimum capability. When attaching to a ferrous metal surface, space sensor components away from metal by minimum ¼" using plastic spacer in order to maintain magnetic gap. Intrusion door switches shall be Seco-Larm SM Series or equal.
- 3. Hatch or Vault – hatch or vault intrusion switch shall include a pre-wired factory sealed 5 foot cable for wet applications. Roller level switch shall be 316 stainless steel with roller and 1.19" to 3" radius adjustable lever arm. Switch shall have two independent sets of contacts that actuate with clockwise or counter clockwise lever movement. Tank hatch switch shall be Allen-Bradley Model 802MC-AY5 with 802MC-W2B lever or equal.
- 4. Valve Limit Switch – The valve mechanical position indicator shall to actuate the position limit switch(s). The limit switch shall have a rotating steel arm with end roller or plunger that can be adjusted to actuate the switch at the fully open or closed position of the valve. The switch shall have 10 amp S.P.D.T. contacts mounted in a water-tight housing. The limit switch shall be Allen Bradley 802T with 1.19" to 3" radius adjustable lever arm, or equal.

B. Smoke Detector:

- 1. General
 - a. The smoke detector shall detect smoke produced by fire and signal an alarm system. The detector shall be housed in a flame retardant plastic housing and shall be unaffected by vibration. Detector shall be sealed against dirt, insects and

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back pressure

- b. Detector shall utilize photoelectronic sensor technology.
 - c. The detector/base shall be 120V, four-wire operation with built-in Form A and Form C dry contacts. Form A contact shall be rated for 2.0A at 30VAC/DC. Form C contact shall be rated for 2.0A at 30VAC/DC and 1.0A at 120VAC.
 - d. The detector shall have an operating temperature 32 to 120°F and an operating humidity of 10 to 93% relative humidity.
 - e. The detector shall have built-in test switch (magnetic proximity actuation) and 360 degree view angle of built-in alarm LEDs.
 - f. The detector shall be approved by UL and Factory Mutual and meet requirements of NFPA 72.
2. The fire alarm smoke detector shall be photoelectric type. The smoke detector shall be System Sensor 100 Series model 2151 with B114LP base, Gentex 8000 Series with 120VAC base, or equal.

2.09 MOTOR OR EQUIPMENT PROTECTION DEVICES

A. Vibration Sensor / Transmitter:

- 1. Solid state, loop powered vibration transmitter providing a 4-20 mA output that is proportional to overall vibration in terms of velocity. The unit shall continuously monitor machinery health by sensing vibration and transmit signal into a PLC for trending, alarm and/or machine shutdown.
- 2. Installation: Mount the sensor into a tapped hole in the bearing housing or machine case using a stainless steel threaded 1/4"-28 UNF stud with Loctite 222. Prepare surface by grinding smooth and applying a machine oil coupling fluid. Connect electrical conduit directly to the top 3/4" NPT fitting and connect two wires into a 4-20 mA loop.
- 3. Specifications:
 - a. Dynamic Output: 4-20 mA proportional to full scale velocity
 - 1) 0-0.5 Inches per Second peak
 - b. Frequency Response: 2 Hz to 2,000 Hz
 - c. Buffered Output: Acceleration, 100 mV/g
 - d. Accuracy: $\pm 5\%$
 - e. Two wire loop power: + 20 to + 30 Vdc
 - f. Maximum Load: 600 Ohms resistive
 - g. Grounding: Case Isolated

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- h. Environmental Operating Temperature: -20° C to +80° C
 - i. Sealed Epoxy Encapsulated 316L SS, NEMA 4, 4X, 12
 - j. Mounting: 1/4"-28 UNF Stud Mounted
 - k. Weight: 8 oz.
4. The Vibration sensor transmitter shall be Robert Shaw 570B, Hardy Instruments HI5701-VT, STI CMCP-420VT, or equal.

2.10 INSTRUMENTATION SUN PROTECTION

A. Instrument Sunshade

- 1. Provide wall mount bracket or pole mounted sunshade where instruments are exposed to direct sunlight. Sunshades shall be fabricated from stainless steel. Sunshade shall be custom manufactured for the instrument protected and sized such that there is 3" free space around sides and front of instrument.

- B. Instruments shall be oriented facing either North or East to minimize direct sunlight exposure where ever possible.

2.01 INSTRUMENTATION SCHEDULE

- A. The Instrumentation Schedule spreadsheet (located at the end of this section) is intended to be a summary of instrumentation equipment required for this project. Not all instrumentation details are shown on the schedule. Some requirements may be shown in the Instrumentation Schedule such as enclosure rating and instrument span that are not described in the specifications. Both are required for a complete specification.
- B. If an instrument is shown in the P&IDs or on the site plan, then the device shall be provided whether or not it is shown on the Instrumentation Schedule.

PART 3: EXECUTION

3.01 WORKMANSHIP

- A. Instrumentation work shall conform to workmanship standards specified in Electrical Specifications [Electrical General, Workmanship].
- B. The Contractor shall employ personnel who are skilled and experienced in the installation and connection of equipment defined in this section. Contractor qualifications are specified in Electrical Specifications [Electrical General].
- C. Verify that all equipment and materials fit properly.
- D. All instrumentation configuration, programming and calibration shall be completed prior to the start of field tests.
- E. Equipment without approved submittals shall not be installed.
- F. All equipment shall be properly stored indoors while awaiting installation.

Protect installed equipment from construction debris or mishaps. The Contractor will replace any equipment that is not in new condition at the time of installation and/or start-up.

- G. Perform work to remedy non-compliant installations after inspection.

3.02 INSTALLATION

- A. Install and supply all products necessary to provide an operational instrumentation system. This shall include the following:

1. Contract Drawings are intended to show the basic functional requirements of the instrumentation system. Insufficient detail does not relieve the Contractor from the responsibility to provide a complete and functioning system. If additional detail or clarification is required, the Contractor shall request such information prior to installation.
2. Provide relays, signal converters, isolators, boosters, power conditioners, circuit cards, and other miscellaneous devices as required for the compatible and functional interface.
3. Provide analog loop isolators where required to eliminate "ground loops."
4. The instrumentation and accessory equipment shall be installed in accordance with the manufacturer's instructions and located as shown on the Drawings or as approved. When manufacturer's installation literature specifies a particular location or orientation in a process line due to measurement accuracy considerations, the installation shall be in conformance with the manufacturer's instructions.

- B. Instrument installation methods.

1. Install instruments at the location shown on the Plans or approved. Instruments enclosures shall be NEMA rated for the installed location.
2. Install level and plumb.
3. All instruments shall be provided with floor stands or wall brackets as shown in installation details or as required for functional installation.
4. Mounting stands shall be custom manufactured of aluminum channel with base plate unless otherwise noted in installation detail.
5. Mounting channels (unistrut), and spacers shall be galvanized steel above ground outdoors and stainless steel below ground (wetwell), unless otherwise noted in installation details.
6. All screws, bolts and anchors shall be stainless steel.

- C. Wiring and raceway installation methods:

1. Terminal blocks shall be provided at all instrument cable junctions and

all wires shall be identified at such junctions.

2. Instrumentation wiring shall be run without splices between instruments, terminal boxes, or panels.
- D. Wiring, grounding, and shielding: The following practices shall be observed unless modified by manufacturer's standards.
1. Each electronic equipment chassis shall be grounded to power ground.
 2. Shielded twisted pair, shielded triad, or manufacturer supplied cables only shall be used for analog signals and communications signals.
 3. Drain wire of shielded cables used for analog inputs to the PLC shall be connected at the PLC unit only. Shield shall be isolated from ground at all other termination points including transmitters.
 4. Drain wire of shielded cables used for analog outputs from the PLC shall be connected at signal receiving device only. Shield shall be isolated from ground at all other termination points.
 5. If electrical interference noise is imposed on DC status and alarm signals, then they shall be re-routed or wire changed to shielded twisted pair cables.
 6. Each shield drain wire which is not connected to ground shall be cut off covered with a heat shrink insulating boot at cable jacket end. Shields shall be connected together at each transition from one cable to another for an effectively continuous shield circuit.

3.03 SUPPLIER SERVICES

- A. The Contractor shall be responsible for each supplier of equipment to provide the following minimum services for each type of instrument supplied. Each supplier shall provide a qualified instrumentation field technician to perform services listed herein. Contractor shall supply all calibration materials necessary to commission unit and shall not use any consumable materials that are intended to be furnished for the first period of use.
1. Advise and instruct Contractor on proper installation requirements.
 2. Inspect, calibrate, test, and place equipment in operation. Calibrate instruments to values as shown in the instrument index or as noted herein. If instrument spans are required to change (within instrument range) during startup for process reasons, the Contractor shall change them as directed by the Engineer.
 3. Programmable devices shall be programmed and tested prior to startup. Programming shall be adjusted or changed as directed by the Engineer at any time prior to final acceptance.
 4. Perform testing in the presence of Engineer.

5. Visit the project site as often as required and spend as much time as necessary to ensure accurate and operational instrumentation.
 6. Provide training as specified in FIELD ASSISTANCE.
- B. The Contractor shall coordinate with each supplier of instrumentation to confirm that primary elements are provided in a timely manner, meeting critical path scheduling. The Contractor shall coordinate process connection size, equipment size, and material type when applicable and oversee the installation, calibration, and acceptance testing.

3.04 FIELD ASSISTANCE

- A. The instrument supplier shall provide a minimum of one (1) hour of field training to instruct Owner's personnel in the use, operation, calibration, programming, and maintenance on each type of "field" instrument.

3.05 SPARE PARTS

- A. Provide spare parts as described in each products section herein and specified in Electrical Specifications [Electrical General, Spare Parts].
- B. Contractor shall supply all calibration materials necessary to commission unit and shall not use any consumable materials that are intended to be handed over to the Owner as defined in the instrument specifications.

3.06 WARRANTY

- A. Provide warranty as specified in Electrical Specifications [Electrical General, Warranty].

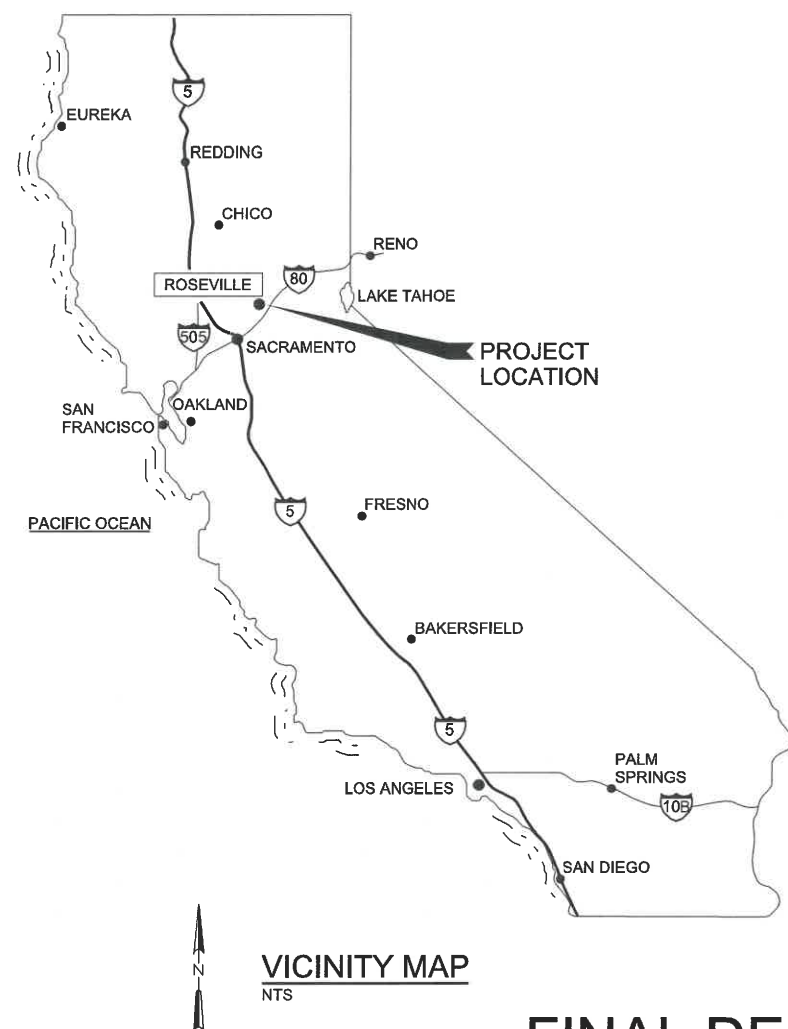
3.07 FINAL ACCEPTANCE

- A. Final Acceptance per Electrical Specifications [Electrical General].

END OF SECTION

CITY OF ROSEVILLE

CONTRACT DOCUMENTS FOR DESIGN-ASSIST AND CONSTRUCTION OF WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) 4501 WESTPARK DRIVE ROSEVILLE, CA 95747 VOLUME 4 OF 4 : DRAWINGS



APPROVAL
RECOMMENDED BY:

Janice Gainey
JANICE GAINNEY, P.E.
SENIOR ENGINEER
DEPARTMENT OF ENVIRONMENTAL UTILITIES
CITY OF ROSEVILLE

DATE: 11/15/19

APPROVED BY:

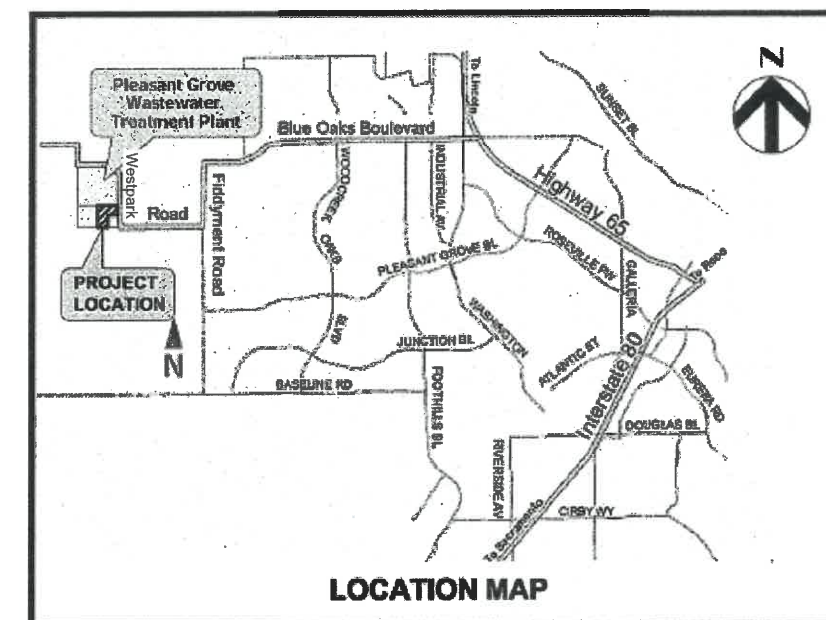
Sean Bigley
SEAN BIGLEY
ACTING WATER UTILITY MANAGER
DEPARTMENT OF ENVIRONMENTAL UTILITIES
CITY OF ROSEVILLE

DATE: 11/15/19

SUBMITTED BY:

Michael J. Fisher
MICHAEL J. FISHER, P.E.
SENIOR CIVIL ENGINEER
WATER WORKS ENGINEERS, LLC.

DATE: 11/15/2019



NOVEMBER 2019
FINAL DESIGN SUBMITTAL - NOT FOR CONSTRUCTION



WATERWORKS
ENGINEERS

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THIS PROJECT CONTACT:

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INDEX TO DRAWINGS

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FOR PROPOSAL
PURPOSES ONLY,
NOT FOR
CONSTRUCTION



DESIGNED
M FISHER

DRAWN
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CITY OF ROSEVILLE
CALIFORNIA

WATERWORKS

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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

GENERAL

INDEX TO DRAWINGS

DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-G-002

SHEET NUMBER
2

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GENERAL NOTES:		GENERAL NOTES CONT:		GENERAL NOTES CONT:			
1. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT ITS EXPENSE,UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. 2. DEVIATION FROM THESE PLANS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE. 3. IN THE EVENT OF A CONFLICT BETWEEN THE AGREEMENT, ITS EXHIBITS, OR THE CONSTRUCTION DOCUMENTS (PLANS AND SPECIFICATIONS) THE AGREEMENT CONTROLS, FOLLOWED BY ITS EXHIBITS. 4. ALL PIPE LENGTHS AND DISTANCES BETWEEN STRUCTURES ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE ALONG A HORIZONTAL PLANE UNLESS OTHERWISE STATED OR SHOWN. 5. ELEVATIONS FOR THE PROPOSED PIPELINE ARE TO THE INVERT OF THE PIPE AS SHOWN ON PROFILE. 6. MINOR CHANGES IN THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE PIPELINES MAY BE PROPOSED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL TO FACILITATE CONSTRUCTION AND AVOID FIELD CONFLICTS. 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION. 8. LOCATIONS OF EXISTING SHOWN UTILITIES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE SIZE, DEPTH, ORIENTATION, MATERIAL AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND SUBMIT THIS INFORMATION TO THE ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO PROVIDE FOR THE PROTECTION OF EXISTING UTILITIES. THE ENGINEER HAS ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THE PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER OR CITY OF ROSEVILLE ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED BY CALLING "UNDERGROUND SERVICE ALERT" ("USA") 1-800-227-2600 TWO (2) DAYS MINIMUM TO FOURTEEN (14) DAYS MAXIMUM BEFORE BEGINNING ANY EXCAVATION. THE CONTRACTOR SHALL CONTACT ANY UTILITY COMPANY WHOSE UTILITIES ARE NOT LOCATED BY "USA" FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR TO EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL COORDINATE WORK WITH CONFLICTING UTILITIES AND PROVIDE FOR REMOVAL, RELOCATION AND REPLACEMENT AS NECESSARY FOR INSTALLATION OF THE PROPOSED UTILITIES. UTILITY COORDINATION SHALL BE INCLUDED IN THE PROJECT SCHEDULE AND IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATION. THE CONTRACTOR SHALL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION OR ANY RELOCATION. 9. BURIED TELEPHONE, GAS AND CATV CABLES (FIBER OPTICS AND CONVENTIONAL) ARE KNOWN TO VARY IN DEPTH AND LOCATION DUE TO INSTALLATION TECHNIQUES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANY TO DETERMINE SPECIFIC UTILITY LOCATIONS AND NOTIFYING THE ENGINEER OF THE EXACT LOCATION (HORIZ & VERT) OF THE UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH LOCATING. COORDINATION FOR RELOCATION OR REPAIR OF BURIED CABLES AND GAS ALONG THE PIPELINE ALIGNMENT. 10. EXISTING OVERHEAD ELECTRIC AND TELEPHONE TRANSMISSION LINES IN THE PROJECT AREA MAY BE NOT SHOWN ON DRAWINGS. EXTREME CAUTION SHALL BE USED WHEN WORKING IN THE VICINITY OF OVERHEAD UTILITIES SO AS TO PREVENT INJURY TO WORKERS OR DAMAGE TO THE UTILITIES. 11. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD ANY FIELD CONDITIONS BE ENCOUNTERED THAT VARY FROM THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. 12. THE CONTRACTOR SHALL NOTIFY ROSEVILL ELECTRIC PRIOR TO EXCAVATING CLOSER THAN TEN FEET TO AN EXISTING UTILITY POLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANY ADDITIONAL SUPPORT OF EXISTING POWER POLES AS REQUIRED FOR TRENCH EXCAVATION. ALL COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR. 13. THE CONTRACTOR SHALL INSTALL ALL TEMPORARY AND PERMANENT SIGNS AS REQUIRED BY THE CITY OF ROSEVILLE. IN ACCORDANCE WITH TRAFFIC CONTROL PLANS PROVIDED BY THE CONTRACTOR AND APPROVED BY THE AGENCY OR JURISDICTION. 14. THE CONTRACTOR SHALL INSTALL PROJECT DESCRIPTION TEMPORARY SIGNS AS REQUIRED BY PERMIT CONDITIONS . CONTRACT DOCUMENTS, ENGINEER OR CITY OF ROSEVILLE. 15. MINIMUM PIPE COVER FOR ALL UTILITIES SHALL BE AS SHOWN ON THE PLANS BUT NO LESS THAN 3 FEET UNLESS LESS COVER IS SPECIFICALLY APPROVED BY THE ENGINEER OR SHOWN ON PLANS. 16. THE CONTRACTOR SHALL REMOVE AND REINSTALL ALL EXISTING FENCE AS REQUIRED FOR FACILITIES INSTALLATION. ANY ADDITIONAL FENCE MATERIALS REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PRIVATE PROPERTY OWNERS OR CITY OF ROSEVILLE. REPLACED FENCE SHALL MATCH EXISTING FENCE TYPE. 17. CARE SHALL BE TAKEN TO PROTECT EXISTING PLANTS, SHRUBS, TREES, LAWN, LANDSCAPE AREAS AND IRRIGATION SYSTEMS. ANY ITEMS REMOVED OR DAMAGED SHALL BE REPLACED. ALL ITEMS WHICH REQUIRE REMOVAL OR ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED TO ORIGINAL CONDITION AND TO THE APPROVAL OF THE ENGINEER AND AT CONTRACTOR COST.		18. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL DEVELOP AND SUBMIT TO THE ENGINEER AN EXCAVATION AND SHORING PLAN. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SHEETING, SHORING AND BRACING REQUIRED FOR THE INSTALLATION OF THE UTILITY, ALL EXCAVATIONS SHALL BE KEPT WITHIN THE BOUNDARIES OF DESIGNATED EASEMENTS. 19. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DEVELOP AND SUBMIT TO THE ENGINEER, A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL COMPLY WITH THE APPROVED TRAFFIC CONTROL PLAN AT ALL TIMES. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND TO PROVIDE FOR THE PROPER AND CONTINUOUS SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS. THE USE OF FLAGGERS, BARRICADES AND CONSTRUCTION SIGNING SHALL COMPLY WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CMUTCD), LATEST EDITION. 20. ALL MATERIAL CLEARED AND GRUBBED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK, SUCH AS TREES, VEGETATION, FENCING, ETC., SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE AT AN APPROVED DISPOSAL SITE. 21. THE CONTRACTOR SHALL MAINTAIN A SAFE MEANS FOR VEHICULAR AND PEDESTRIAN INGRESS/EGRESS AT ALL TIMES. 22. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING. 23. ALL CONSTRUCTION ACTIVITY SHALL BE LIMITED TO STREET RIGHTS-OF-WAY, CITY OF ROSEVILLE PROPERTY, AND TEMPORARY CONSTRUCTION EASEMENTS OR LICENSE AREA AS SHOWN ON PLANS. 24. THE CONTRACTOR SHALL RESTORE ALL ACCESS ROADS AND STREETS WITHIN THE CONSTRUCTION LIMITS TO PRE-CONSTRUCTION CONDITIONS OR BETTER WITH THE EXCEPTION OF IMPROVEMENTS AS SHOW ON THE CONTRACT DRAWINGS. 25. ALL TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY OF ROSEVILLE STANDARDS AND AS MODIFIED IN THE CONSTRUCTION DETAILS ELSEWHERE IN THE PLANS AND TECHNICAL SPECIFICATIONS. TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED. ALL TRENCHES SHALL BE CLOSED OR COVERED SECURELY WITH STEEL TRENCH PLATES AT THE END OF THE WORK DAY. 26. FOR ALL TRENCHING EXCAVATIONS 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF INDUSTRIAL RELATIONS PRIOR TO BEGINNING ANY EXCAVATION. A COPY OF THIS PERMIT SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES. 27. THE CONTRACTOR SHALL ONLY ACCESS THE CONSTRUCTION AREAS VIA ROUTES DESIGNATED AS "CONSTRUCTION ACCESS" ON THE PLANS. ACCESS TO CONSTRUCTION AREAS VIA ALTERNATE ROUTES IS PROHIBITED, UNLESS CONTRACTOR RECEIVES APPROVAL FROM PROPERTY OWNER IN WRITING. CONTRACTOR SHALL PROVIDE CITY OF ROSEVILLE A COPY OF THE SIGNED AGREEMENT BEFORE USING THE ALTERNATE ACCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CITY / STATE / COUNTY / ENVIRONMENTAL PERMITTING FOR ALT ENTRANCES. 28. THE CONTRACTOR SHALL CONDUCT ALL WORK WITHIN THE AREAS DESIGNATED AS "CONSTRUCTION LIMITS" ON THE PLANS. 29. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. 30. STRUCTURES NOTED IN THE PLANS AS EXISTING SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES NOTED SHALL BE REPORTED TO THE ENGINEER. 31. TYPICAL DETAILS AND SCHEDULES INDICATED MAY NOT BE SPECIFICALLY REFERENCED ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES. IF LOCATIONS ARE FOUND WHERE NO TYPICAL DETAIL, TYPICAL SCHEDULE, OR SPECIFIC DETAIL APPLIES, THE ENGINEER SHALL BE NOTIFIED. 32. OBSERVATION VISITS (SITE VISITS) BY REPRESENTATIVES OF CITY OF ROSEVILLE DO NOT INCLUDE INSPECTION OF CONSTRUCTION MEANS AND METHODS. SITE VISITS DURING CONSTRUCTION ARE NOT CONTINUOUS AND DETAILED INSPECTION SERVICES ARE TO BE PERFORMED BY OTHERS. OBSERVATIONS ARE PERFORMED SOLELY FOR THE PURPOSE OF DETERMINING IF THE CONTRACTOR UNDERSTANDS DESIGN INTENT SHOWN IN THE CONTRACT DRAWINGS. OBSERVATIONS DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND ARE NOT TO BE CONSTRUED AS SUPERVISION, THE VERIFICATION OF CONSTRUCTION, OR ACCEPTANCE OF THE WORK. 33. ALL SPECIFICATIONS AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE AGENCY HAVING JURISDICTION OVER THIS PROJECT. 34. DISPOSAL OF ALL EXISTING MATERIALS NOTED TO BE DEMOLISHED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 35. CONSTRUCTION AT THE SITE MUST COMPLY WITH APPLICABLE PROVISIONS OF THE CALIFORNIA FIRE CODE CHAPTER 33 "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AND STANDARD DETAIL AND SPECIFICATION SI-7. 36. CONTRACTOR SHALL MONITOR, RECORD AND REPORT GROUND WATER / STORM WATER DISCHARGE FOR ALL DISCHARGE PER SPEC 01140.		37. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF ROSEVILLE STANDARD SPECIFICATIONS, DESIGN & CONSTRUCTION STANDARDS, AND THE SPECIAL PROVISIONS. 38. THE CITY OF ROSEVILLE IS A MEMBER OF THE UNDERGROUND SERVICE ALERT (USA) ONE-CALL SYSTEM. 39. THE CONTRACTOR SHALL MARK IN THE WHITE PAINT ALL AREAS TO BE EXCAVATED PRIOR TO CONTACTING USA. ANY AREAS NOT MARKED WILL NOT BE SUBJECT TO USA, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM EXCAVATION. 40. THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT EXISTING SITE AND ADJACENT IMPROVEMENTS FROM THE DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ALL CRACKS AND/OR DAMAGE MADE TO PRE-EXISTING PUBLIC IMPROVEMENTS ALONG THE FRONTAGE OF THE PROJECT SITE AND ANY DAMAGE OF PRE-EXISTING FACILITIES RESULTING FROM CONSTRUCTION, TO CURRENT CITY STANDARDS AND AT THEIR OWN EXPENSE. THE EXTENT OF THE REPAIRS SHALL BE DETERMINED BY THE DEVELOPMENT SERVICES CONSTRUCTION INSPECTOR AND SHALL BE COMPLETED PRIOR TO THE CITY'S ACCEPTANCE OF THE IMPROVEMENTS. 41. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING WATER, SEWER AND/OR DRAINAGE FACILITATES WITHIN THE CONSTRUCTION AREA UNTIL THE PROPOSED IMPROVEMENTS ARE IN PLACE AND FUNCTIONING. 42. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS ON THE JOB SITE. CONTRACTOR SHALL NOTIFY ENGINEER WHERE THE WORK MIGHT CAUSE SURVEY MONUMENTS TO BECOME DISTURBED OR DESTROYED. CONTRACTOR SHALL PROVIDE A LICENSES LAND SURVEYOR TO SET REFERENCES AND RESTORE SURVEY MONUMENTS IN ACCORDANCE WITH COUNTY AND CITY STANDARDS. 43. CONTRACTOR SHALL COORDINATE AND NOTIFY THE CONSTRUCTION MANAGER WHEN WORK IS READY FOR INSPECTIONS. PRESENCE OR ABSENCE OF INSPECTOR WILL NOT RELIEVE CONTRACTOR OF FULL RESPONSIBILITY FOR PROPER PERFORMANCE ON WORK. 44. CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS THAT ARE TO BE REMOVED FROM THE SITE INCLUDING, SURPLUS EXCAVATION MATERIALS AND DEBRIS. CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE, NEAT AD ORDERLY CONDITION. CONTRACTOR SHALL DELIVER MATERIALS OR EQUIPMENT TO BE SALVAGED AND RETURNED TO THE OWNER AT THE LOCATION TO BE DETERMINED BY THE ENGINEER. 45. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS AND SECURITY, INCLUDING PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE PROJECT SITE DURING THE CONSTRUCTION OF THE PROJECT. 46. ALL EXISTING FACILITIES NOT DESIGNATED FOR REMOVAL/DEMOLITION DURING CONSTRUCTION OF NEW FACILITIES TO BE PROTECTED IN PLACE RE REPLACED IN KIND AT THE CONTRACTORS OWNERS EXPENSE. 47. ALL PAVEMENT, INCLUDING ASPHALT CONCRETE (AC) AND PORTLAND CEMENT (PCC) PAVING SHALL BE SAW CUT TO A NEAT STRAIGHT LINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RECOMPACTED AND RESEALED PRIOR TO PAVING. 48. COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR COMPLIANCE. THIS SHALL INCLUDE, BUT NOT LIMITED TO, SHORING OF TRENCHES, AND VENTILATION OF CONFINED SPACES. 49. CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE COMMENCING WORK. 50. WHEN EXCAVATION IS REQUIRED AROUND EXISTING UTILITIES THOSE UTILITIES SHALL BE SUPPORTED USING STEEL BEAMS OR OTHER SUITABLE SUPPORTS. 51. ALL CONCRETE TO BE USED IN CURBS AND SIDEWALKS SHALL BE MINOR CONCRETE AS DEFINED IN THE CORDCS. 52. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN THAT SHALL BE APPROVED BY ENGINEERING DIVISION BEFORE START OF WORK IN RIGHT-OF-WAY AND SHALL BE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE MUTCD WITH ALL APPLICABLE CALIFORNIA SUPPLEMENTS 7 AMENDMENTS. AT LEAST ONE LAGE IN EACH DIRECTION SHALL REMAIN OPEN TO TRAFFIC UNLESS OTHERWISE SHOWN ON THE PLANS. TRAFFIC CONTROL HOURS ARE SUBJECT TO LIMITATION BY THE CITY. TRAFFIC CONTROL WITH LANE CLOSURES THAT AFFECT TRAFFIC FLOW MAY REQUIRE NIGHT WORK. IF, AS A PART OF TRAFFIC CONTROL MEASURES, A ROADWAY CLOSURE HAS BEEN APPROVED, THE CONTRACTOR SHALL NOTIFY ENGINEERING DIVISION 72 HOURS IN ADVANCE OF SETTING UP THIS CLOSURE.		53. CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL POLLUTION CONTROL RULES, REGULATIONS, ORDINANCES AND STATUTES WHICH APPLY TO ANY WORK PERFORMED PURSUANT TO THE CONTRACT, INCLUDING ANY WATER POLLUTION CONTROL RULES, REGULATIONS AND STATUTES SPECIFIED BY THE MOST CURRENT STATE OF CALIFORNIA NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATES WITH CONSTRUCTION ACTIVITY. (REFER TO GENERAL CONDITIONS SECTION 5, FOR ADDITIONAL REQUIREMENTS). IN THE EVENT OF ANY VIOLATIONS THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL FINES, CITATIONS, PENALTIES AND ALL OTHER JUDGEMENTS THAT SHALL BE IMPOSED. 54. THE CONTRACT DOCUMENTS SHALL CONSTITUTE THESE PLANS, THE TECHNICAL SPECIFICATIONS, THE GENERAL CONDITIONS, THE SUPPLEMENTARY CONDITIONS, AND ALL REFERENCE DOCUMENTS INCLUDING THE MOST RECENT VERSION OF THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS.	
DESIGNED M FISHER DRAWN J MARTIN CHECKED S KADER APPROVED M FISHER		CITY OF ROSEVILLE ROSEVILLE CALIFORNIA		WATERWORKS E N G I N E E R S 2280 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-765-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA		GENERAL NOTES		FOR PROPOSAL PURPOSES ONLY, NOT FOR CONSTRUCTION REGISTERED PROFESSIONAL ENGINEER No. 267194 CIVIL STATE OF CALIFORNIA 11-14-19			
DATE NOVEMBER 2019		PROJECT NUMBER 17-083		DRAWING NUMBER WD00-G-003			
SHEET NUMBER		3					

ABBREVIATIONS

A	AIR	CFS	CUBIC FEET PER SECOND	ESA	ENVIRONMENTALLY SENSITIVE AREA	HSS	HIGH PRESSURE STREAM, HOLLOW	OPNG	OPENING	SE	SOUTHEAST
@	AT	CJ	CONSTRUCTION JOINT,	EVC	END OF VERTICAL CURVE	HWY	HIGHWAY	OPP	OPPOSITE	SEC	SECONDARY
AB	ANCHOR BOLT, AGGREGATE BASE		CONTRACTION JOINT	EVCe	END VERTICAL CURVE ELEVATION	HYD	HYDRANT	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.	SECT	SECTION
AC	ASPHALTIC CONCRETE, ASBESTOS CEMENT	CL	CENTERLINE	EVCS	END VERTICAL CURVE STATION			OZ	OUNCE	SHC	SODIUM HYPOCHLORITE
ACI	AMERICAN CONCRETE INSTITUTE	CL2	CHLORINE	EVMWD	ELSINORE VALLEY MWD	IA	INSTRUMENT AIR			SH	SHEET
ACU	AIR CONDITIONING UNIT	CLDIP	CEMENT-LINED DUCTILE IRON PIPE	EW	EACH WAY	I&C	INSTRUMENTATION & CONTROL	PA	PROCESS AIR	SIM	SIMILAR
ADD	ADDITIONAL	CLG	CEILING	EWEF	EACH WAY, EACH FACE	ID	INSIDE DIAMETER	PC	POINT OF CURVE	SL	SLUDGE
ADH AB	ADHESIVE ANCHOR BOLT	CLR	CLEAR, CLEARANCE	EXP	EXPOSED, EXPANSION	IF	INSIDE FACE, INTERMEDIATE PRESSURE	PE	PLAIN END, POLYETHYLENE, PERMANENT	SLG	SLUDGE
ADJ	ADJACENT, ADJUSTABLE	CLSM	CONTROLLED LOW STRENGTH MATERIAL	EXP JT	EXPANSION JOINT		FEEDWATER		EASEMENT	SLMH	SLUDGE MANHOLE
AE	ANALYZER ELEMENT	CML, CSP	CONCRETE MORTAR LINED AND COATED	EXST	EXISTING	IMLR	INTERNAL MIXED LIQUOR RETURN	PENT	PENETRATION	SLP	SLOPE
AFF	ABOVE FINISH FLOOR		STEEL PIPE			IN	INCH	PI	POINT OF INTERSECTION	SMP	SAMPLE
AFG	ABOVE FINISH GRADE	CMLSP	CEMENT MORTAR LINED STEEL PIPE			INFL	INFLUENT	PJF	PREMOLDED JOINT FILLER	SOLN	SOLUTION
AHP	AIR: HIGH PRESSURE	CMP	CORRUGATED METAL PIPE	FA	FOUL AIR	INSTM	INSTRUMENTATION	PL	PLATE, PROPERTY LINE	SOW	SLIP ON WELD
AIR	COMPRESSED AIR	CMU	CONCRETE MASONRY UNIT	FB	FLAT BAR	INSJL	INSULATE, INSULATION	PLC	PROGRAMMABLE LOGIC CONTROLLER	SP	SPACE OR SPACES
AISC	AMERICAN INSTITUTE OF STEEL	CO	CLEANOUT	FBE	FUSION BONDED EPOXY	INV	INVERT	PLYWD	PLYWOOD	SPD	SUMP PUMP DRAIN
	CONSTRUCTION	COL	COLUMN	FC	FLEXIBLE COUPLING	IP	IRON PIPE	PNL	PANEL	SPEC	SPECIFICATIONS
AIT	ANALYZER INDICATOR/TRANSMITTER	COM	COMMUNICATION	FCA	FLANGED COUPLING ADAPTER	IR	IRON ROD	POB	POINT OF BEGINNING	SPLY	SUPPLY
AL, ALUM	ALUMINUM	COMB	COMBINED	FCO	FLOOR CLEAN OUT	IRR	IRRIGATION	POC	POINT OF CONNECTION	SQ FT	SQUARE FOOT
ALP	AIR LOW PRESSURE	CONC	CONCRETE	FDA	FLOOR DRAIN W/INTEGRAL TRAP	IS	INTERMEDIATE PRESSURE STREAM	POE	POINT OF ENDING, PLAIN ONE END	SQ IN	SQUARE INCH
ALTN	ALTERNATE	CONN	CONNECTION	FDN	FOUNDATION	IW	INJECTION WATER	PP, P&P	PLAN AND PROFILE, POWER POLE	SS	SANITARY SEWER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	CONT	CONTINUOUS, CONTINUATION	FES	FLARED END SECTION			PPM	PARTS PER MILLION	SSH	SAFETY SHOWER
APPROX	APPROXIMATE	COORD	COORDINATE	FEXT	FIRE EXTINGUISHER	JT	JOINT	PRC	POINT OF REVERSE CURVE	SSMH	SANITARY SEWER MANHOLE
APVD	APPROVED	CPLG	COUPLING	FF	FINISH FLOOR			PRCST	PRECAST	ST	SAMPLE TAP, STEAM TURBINE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	CT	COPPER TUBING	FG	FINISH GRADE, FUEL GAS	KIP	THOUSAND POUNDS	PREFAB	PREFABRICATED	SST	STAINLESS STEEL
AR	AERATION	CTRD, CTD	CENTERED	FHY	FIRE HYDRANT	KW	KILOWATT	PRESS	PRESSURE	STA	STATION
ARCH, A	ARCHITECTURAL	CTR	CENTER	FI	FLOW INDICATOR			PRC	POINT OF REVERSE CURVE	STD	STANDARD
ARV	AIR RELEASE VALVE	CU	COPPER	FIG	FIGURE	L	LEFT, ANGLE, LENGTH	PRI	PRIMARY	STIF	STIFFENER
ASTM	AMERICAN SOCIETY FOR TESTING AND	CU FT	CUBIC FOOT	FIL	FILTRATE	LAE	LABORATORY	PROP	PROPERTY	STL	STEEL, STEEL PIPE
	MATERIALS	CU IN	CUBIC INCH	FL	FLOOR, FLOW LINE	LATL	LATERAL	PR	PRESSATE	STLS	STEEL PIPE (SPECIAL)
AUTO	AUTOMATIC	CU YD	CUBIC YARD	FLG	FLANGE	LB	POUNDS	PS	PUMP STATION	STR	STRAIGHT
AUX	AUXILIARY	CULV	CULVERT	FLH	FLAT HEAD	LB/CU FT	POUNDS PER CUBIC FOOT	PSF	POUNDS PER SQUARE FOOT	STRL	STRUCTURAL
AV	AIR/VACUUM ASSEMBLY	CWTP	CIRCULATING WATER	FLL	FLOW LINE	LE	LEVEL ELEMENT	PSI	POUNDS PER SQUARE INCH	STRUCT	STRUCTURE
AVE	AVENUE	CWTP	CHAPARRAL WATER TREATMENT PLANT	FM	FLOW METER	LF	LINEAR FEET	PSIG	POUNDS PER SQUARE INCH, GAUGE	SUEFL	SUBFLOOR
AWG	AMERICAN WIRE GAGE	CV	CHECK VALVE	FNSH	FINISH	LIT	LEVEL INDICATOR/TRANSMITTER	PT	POINT OF TANGENCY	SUP	SUPERNATANT, SUPPLY
AWWA	AMERICAN WATER WORKS ASSOCIATION	°C	CELSIUS	FO	FUEL OIL	LONG	LONGITUDINAL	P.U.E.	PUBLIC UTILITY EASEMENT	SUSP	SUSPEND
				FOC	FACE OF CONCRETE	LP	LOW POINT	PV	PLUG VALVE	SW	SOUTHWEST, SERVICE WATER
B	BORING	DBA	DEFORMED BAR ANCHOR	FRP	FIBERGLASS REINFORCED PLASTIC	LR	LONG RADIUS	PVC	POLYVINYL C-ILORIDE PLASTIC, POINT OF	SYMM	SYMMETRICAL
BAV	BALL VALVE	DBL	DOUBLE	FS	FINISHED SURFACE, FLOW SWITCH	LS	LOW PRESSURE STREAM		VERTICAL CURVE		
BC	BEGIN CURVE, BOTTOM OF CURB	DEC	DECANT	FT	FOOT OR FEET	LT	LEVEL TRANSMITTER	PVCGS	POLYVINYL C-ILORIDE PLASTIC-GRAVITY	T	TANGENT, TELEPHONE LINE, TOP
BD	BLOW DOWN	DET	DETAIL	FTG	FOOTING	LSH	LEVEL SWITCH HIGH		SEWER TYPE	T&B	TOP AND BOTTOM
BF	BLIND FLANGE, BOTTOM FACE	DF	DOUGLAS FIR/LARCH	FWD	FORWARD	LSL	LEVEL SWITCH LOW	PVCW	POLYVINYL C-ILORIDE PLASTIC-	T&G	TONGUE AND GROOVE
BFD	BUTTERFLY VALVE DAMPER	DI	DROP INLET, DUCTILE IRON	°F	DEGREE FAHRENHEIT	LVC	LENGTH VERTICAL CURVE		WATER DISTRIBUTION SERVICE TYPE	T, T	THICKNESS
BFV	BUTTERFLY VALVE	DIA	DIAMETER			LWL	LOW WATER LEVEL	PVMT	PAVEMENT	TBC	TUBING
BLDG	BUILDING	DIAG	DIAGONAL	G	GAS			PVI	POINT OF VERTICAL INTERSECTION	TDH	TOTAL DYNAMIC HEAD
BLK	BLACK	DICL	DUCTILE IRON CEMENT LINED	GA	GAGE			PVT	POINT OF VERTICAL TANGENCY, PRIVATE	TECH	TECHNICAL
BLM	BUREAU OF LAND MANAGEMENT	DIL	DILUTE	GAC	GRANULAR ACTIVATED CARBON	MAX	MAXIMUM	PW	POTABLE WATER, PROCESS WATER	TEL	TELEPHONE
BM	BENCH MARK, BEAM	DIM	DIMENSION	GAL	GALLON	MCC	MOTOR CONTROL CENTER			TEMP	TEMPORARY, TEMPERATURE
BO	BLOW OFF	DIMJ	DUCTILE IRON MECHANICAL JOINT	GALV	GALVANIZED	MCJ	MASONRY CONTROL JOINT	R, RAD	RADIUS	TF	TOP FACE
BOC	BACK OF CURB	DIP	DUCTILE IRON PIPE	GB	GRADE BREAK	MECH	MECHANICAL	RBW	RECLAIMED BACKWASH	TG	TOP OF GRATE
BOG	BACK OF GUTTER	DIPPL	DUCTILE IRON PIPE, POLYETHYLENE LINED	GC	GROOVED COUPLING	MFR	MANUFACTURER	RC	REINFORCED CONCRETE	THK	THICK
BOO	BOTTOM OF OPENING	DIR	DIRECTION	GCO	GRADE CLEAN OUT	MGD	MILLION GALLONS PER DAY	RCP	REINFORCED CONCRETE PIPE	THK	TANK
BOT	BOTTOM	DIST	DISTANCE	GCF	GROOVED COUPLING FITTING	MIN	MINIMUM, MINUTE	RDCR	REDUCER	TOC	TOP OF CURB, TOP OF CONCRETE
BRG	BEARING	DN	DOWN	GD	GENERAL DRAINAGE	MISC	MISCELLANEOUS	REF	REFER, REFERENCE	TOW	TOP OF WALL
BVC	BEGINNING OF VERTICAL CURVE	DR	DRAIN	GE	GROOVED END	MJ	MECHANICAL JOINT	REINF	REINFORCED, REINFORCING, REINFORCE	TOW	TOP OF FOOTING
BVCE	BEGIN VERTICAL CURVE ELEVATION	do	DITTO	GL	GLASS	MPH	MILES PER HOUR	REQD	REQUIRED	TP	TURNING POINT, TEST PIT
BVCS	BEGIN VERTICAL CURVE STATION	DPT	DIFFERENTIAL PRESSURE TRANSMITTER	GPD	GALLONS PER DAY	MSE	MECHANICALLY STABILIZED EARTH	RJ	RESTRAINED JOINT	TRANS	TRANSITION
BWD	BACKWASH DISPOSAL	DWG	DRAWING	GPH	GALLONS PER HOUR	MSNRY	MASONRY	RLS	RUBBER LINED STEEL	TRANSV	TRANSVERSE
BWI	BACKWASH IN			GRTG	GRATING	MSP	MILL STEEL PIPE, MANUAL OF STANDARD	RM	ROOM	TST	TOP OF STEEL
BWO	BACKWASH OUT	EA	EACH	GSP	GALVANIZED STEEL PIPE	MTL	MATERIAL	RFCA	RESTRAINED FLANGED COUPLING ADAPTER	TT	THRUST TIE
BYP	BYPASS	EC	END CURVE	GT	GAS TURBINE	MWS	MAXIMUM WATER SURFACE	RMJ	RESTRAINED MECHANICAL JOINT	TURB	TURBIDITY
		ECC	ECCENTRIC	GV	GATE VALVE			RO	ROUGH OPENING, REVERSE OSMOSIS	TW	TOP OF WALL
C to C, CC	CENTER TO CENTER	EE	ELECTRICAL	GVL	GRAVEL	N	NORTH	RP	RADIUS POINT	TWS	TRACER WIRE STATION
C	CHANNEL (BEAM)	EF	EACH FACE, EXHAUST FAN	GW	GROUND WATER	NC	NORMALLY CLOSED	R/R	REMOVE AND REPLACE	TYP	TYPICAL
CAV/ARV	COMBINATION AIR ADMISSION/	EFL	EFFLUENT			NE	NORTHEAST	RST	REINFORCING STEEL		
CARV	AIR RELEASE VALVE	EG	EXISTING GRADE	HD	HUB DRAIN	NEMA	NATIONAL ELECTRICAL	RT	RIGHT	UBC	UNIFORM BUILDING CODE
CATH	COMBINATION AIR RELEASE VALVE	EJ	EXPANSION JOINT	HDPE	HIGH DENSITY POLYETHYLENE PIPE		MANUFACTURERS ASSOCIATION	RTN	RETURN WATER	UD	UNDERDRAIN
	CATHODIC PROTECTION	EL	ELEVATION	HDR	HEADER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	RV	ROOF VENT	UG	UNDERGROUND
CATV	CABLE TELEVISION	ELB, ELL	ELBOW	HDW	HARDWARE	NH	AMMONIA	RW	RAW WATER	UH	UNIT HEATER
CB	CATCH BASIN	ELC	ELECTRICAL LOAD CENTER	HF	HIGH PRESSURE FEEDWATER	NIC	NOT IN CONTRACT	R/W	RIGHT-OF-WAY	UNK	UNKNOWN
CCP	CONCRETE CYLINDER PIPE	ELEC	ELECTRIC, ELECTRICAL	HGL	HYDRAULIC GRADE LINE	NO	NUMBER, NUMBERING			UNO	UNLESS NOTED OTHERWISE
CCS	CENTRAL CONTROL SYSTEM	EM	EMISSION MEASUREMENT	HGT	HEIGHT	NTS	NOT TO SCALE	S	I-BEAM, SOUTH SLOPE		
CE	CONDENSATE	EMR	EMERGENCY	HM	HOLLOW METAL	NW	NORTHWEST	S =	SLOPE EQUALS	V	VENT, VOLT, VALVE
CF	CUBIC FEET	ENGR	ENGINEER	HORIZ	HORIZONTAL			SA	SERVICE AIR	VAC	VACUUM
CFM	CUBIC FEET PER MINUTE	EO	EMERGENCY OVERFLOW	HP	HORSEPOWER	OC	ON CENTER	SAT	SUSPENDED ACOUSTIC TILE	VAR	VENT ACID RESISTANT
CHEM	CHEMICAL	EP	EDGE OF PAVEMENT	HPT	HIGH POINT	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN	SC	SCUM	WSP	VERTICAL CURVE
CI	CAST IRON	EQ	EQUALIZATION	HR	HANDRAIL	OF	OUTSIDE FACE, OVERFLOW	SCFH	STANDARD CUBIC FEET PER HOUR	VERT	VERTICAL
CIGC	CAST IRON GROOVED COUPLING	EQ SP	EQUALLY SPACED	HSS	HIGH PRESSURE STREAM, HOLLOW	OFR	OVERFLOW RETURN	SCFM	STANDARD CUBIC FEET PER MINUTE	VFD	VARIABLE FREQUENCY DRIVE
CIMJ	CAST IRON MECHANICAL JOINT	EQPT	EQUIPMENT		STRUCTURE STEEL	OG	ORIGINAL GROUND	SCH	SCHEDULE	VPI	VERTICAL POINT OF INTERSECTION
CIP	CAST IRON PIPE	ERW	EFFLUENT REUSE WATER	HV	HOSE VALVE	OHE	OVERHEAD ELECTRIC	SD	STORM DRAIN	VPS	VEENER PLASTER SYSTEM
CIRJ	CAST IRON RESTRAINED JOINT	ESC	EROSION SEDIMENT CONTROL	HWL	HIGH WATER LEVEL	OMRF	ORDINARY MOMENT RESISTING FRAME	SCH	SCHEDULE		
CISP	CAST IRON SOIL PIPE	EMR	EMERGENCY	HR	HANDRAIL	O TO O	OUT TO OUT	SDS	SECONDARY DIGESTED SLUDGE	XMFR	TRANSFORMER
										Y	YARD

NOTES

1. FOR ELECTRICAL AND INSTRUMENTATION ABBREVIATIONS, SEE ELECTRICAL AND INSTRUMENTATION DRAWINGS.

2. CONTACT THE ENGINEER FOR ABBREVIATIONS NOT LISTED.
3. THIS IS A STANDARD LEGEND SHEET. THEREFORE, SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND MAY NOT BE UTILIZED ON THIS PROJECT.

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DRAWN
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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)

ROSEVILLE, CALIFORNIA

GENERAL

ABBREVIATIONS

DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-G-004

SHEET NUMBER
4

FOR PROPOSAL
PURPOSES ONLY,
NOT FOR
CONSTRUCTION

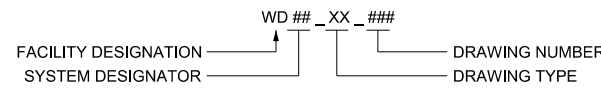
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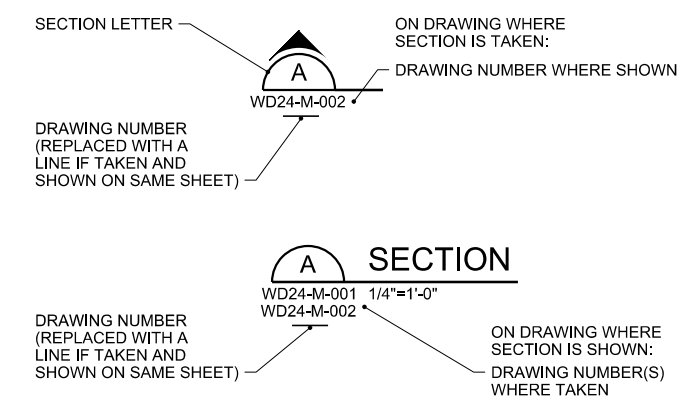
ABBREVIATION	DRAWING TYPE
G	GENERAL
C	CIVIL
GS	GENERAL STRUCTURAL
S	STRUCTURAL
SM	STRUCTURAL/MECHANICAL
GA	GENERAL ARCHITECTURAL
A	ARCHITECTURAL
AS	ARCHITECTURAL/STRUCTURAL
GM	GENERAL MECHANICAL
M	MECHANICAL
GH	GENERAL HVAC
H	HVAC
GE	GENERAL ELECTRICAL
E	ELECTRICAL
GI	GENERAL INSTRUMENTATION
I	INSTRUMENTATION
GN	GENERAL PIPING AND INSTRUMENTATION
N	PIPING AND INSTRUMENT DIAGRAM

DRAWING NUMBER FORMAT

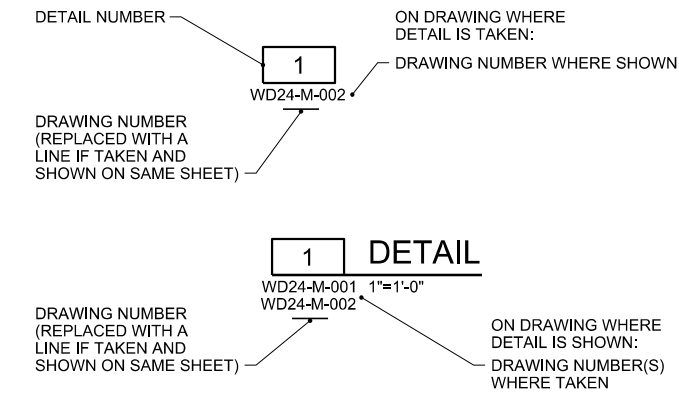


* SEE DEVICE TAGGING STANDARD FOR TABLE OF APPROVED DESIGNATIONS

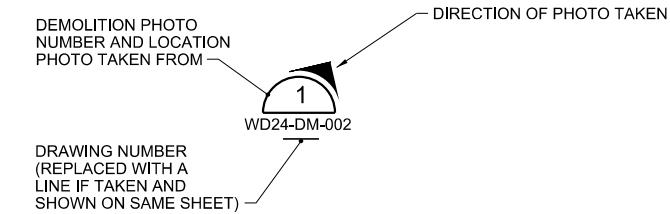
SECTION



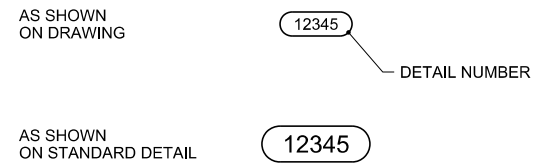
DETAIL



DEMOLITION PHOTO

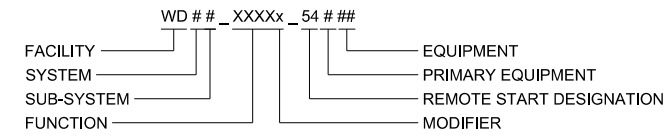


STANDARD DETAIL



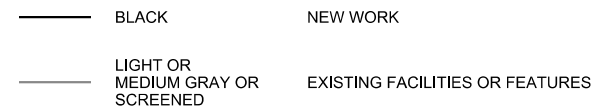
- NOTES:
- STANDARD DETAIL CALLOUTS ARE SHOWN TO INDICATE DETAIL REQUIRED AT SPECIFIC LOCATIONS. DETAILS ARE NOT CALLED OUT AT ALL LOCATIONS. WHERE A STANDARD DETAIL CALLOUT IS NOT SHOWN, THE CONTRACTOR SHALL USE THE STANDARD DETAIL MOST APPLICABLE AND CONSISTENT WITH OTHER WORK UNDER THIS CONTRACT.

EQUIPMENT, VALVE AND DEVICE DESIGNATIONS

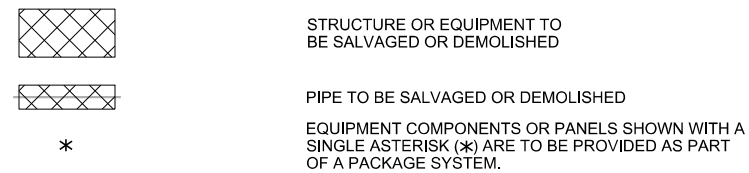


- NOTES:
- SEE CITY OF ROSEVILLE DEVICE TAGGING STANDARDS FOR COMPLETE DESIGNATION DESCRIPTIONS.
 - COORDINATE WITH ENGINEER FOR EQUIPMENT, VALVES, AND DEVICE DESIGNATIONS NOT SHOWN ON THE DRAWINGS.

LINE TYPE APPEARANCE



GENERAL SYMBOLOGY



FOR PROPOSAL
PURPOSES ONLY,
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CONSTRUCTION



CIVIL LEGEND SPOT ELEVATION CONTOUR LINE CUT SLOPE (HORIZ:VERT) EMBANKMENT - FILL SLOPE (HORIZ:VERT) DRAINAGEWAY OR DITCH DIRECTION OF FLOW CENTER LINE, BUILDING, ROAD PROPERTY LINE RIGHT OF WAY, EASEMENT OR SETBACK STAGING OR WORK AREA LIMITS STRUCTURE, BUILDING OR FACILITY LOCATION POINT COORDINATES STRUCTURE, BUILDING OR FACILITY RETAINING WALL CONCRETE CURB ARCHITECTURAL FENCE GUARD RAIL/BARRICADE CHAIN LINK FENCE WITH 3 STRAND BARBED WIRE TOPPING ARCHITECTURAL FENCE CHAIN LINK FENCE BARBED WIRE SINGLE SWING GATE DOUBLE SWING GATE SLIDING GATE CULVERT FIRE HYDRANT WALL BRUSH/TREE LINE TREE DEMOLITION ABANDON IN PLACE AUTOMATIC AIR RELEASE VALVE MANUAL AIR RELEASE VALVE WATER SURFACE GRADE BREAK

ARCHITECTURAL LEGEND

	INDICATES PAIR OF DOORS
	EXTERIOR OR INTERIOR WALL ELEVATION
	ROOM DESIGNATION
	DOOR DESIGNATION
	LOUVER DESIGNATION
	WINDOW DESIGNATION
	FIRE EXTINGUISHER
	DOOR, HATCH, OR WINDOW HINGE LOCATION
	WALL TYPE DESIGNATION
	NFPA SIGN
	SIGN DESIGNATION

MATERIAL SYMBOLS

	CONCRETE
	CMU PLAN
	CMU SECTION
	GYPSUM WALLBOARD
	RIGID INSULATION
	BATT INSULATION
	PLYWOOD
	METAL STUD WALL
	WOOD SECTION
	STEEL
	ACOUSTICAL TILE
	CARPET

DOOR SCHEDULE						
DOOR NUMBER	DOOR DIMENSION	LITES	SILL DETAIL	EXIT DEVICE	WALL	CLOSURE
1	5'-8" x 7'-2"	G	8110, TYPE B	R	CMU	R
2	3'-0" x 7'-2"	G	8110, TYPE B	NR	CMU	R
3	3'-0" x 7'-2"	G	8111	R	CMU	NR
4	5'-8" x 7'-10"	-	8110, TYPE B	R	CMU	R

1. INSTALL DOORS AND FRAMES IN ACCORDANCE WITH THE STEEL DOOR INSTITUTE'S RECOMMENDATIONS. PROVIDE TRIM AND JOINT SEALANT AROUND FRAMES TO INSURE A WEATHERTIGHT BARRIER.
2. SEE SPEC SECTION 08700 - DOOR HARDWARE FOR ALL DOOR HARDWARE INCLUDING EXIT DEVICES AND PRIVACY LATCHES. PROVIDE CLOSERS ONLY ON EXTERIOR DOORS.
3. R = REQUIRED, NR = NOT REQUIRED, NP = NOT PERMITTED, G = HALF GLASS, N = NARROW LITE

1. UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TO NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
2. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
3. CONTRACTOR SHALL VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS.
4. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OF DRAWINGS FOR ADDITIONAL NOTES.
5. VERIFY SIZE AND LOCATION OF, AND PROVIDE: ALL OPENINGS THROUGH FLOORS AND WALLS, ACCESS DOORS, FURRING, CURBS, ANCHORS AND INSERTS. PROVIDE ALL BASES, BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT.

1. THE NON-RESIDENTIAL PROVISIONS OF THE 2016 CALGREEN CODE OUTLINE PLANNING, DESIGN AND DEVELOPMENT METHODS THAT INCLUDE ENVIRONMENTAL RESPONSIBLE SITE SELECTION, BUILDING DESIGN, BUILDING SITTING AND DEVELOPMENT TO PROTECT, RESTORE AND ENHANCE THE ENVIRONMENTAL QUALITY OF THE SITE AND RESPECT THE INTEGRITY OF ADJACENT PROPERTIES; ESTABLISHES THE MEANS OF CONSERVING WATER USED INDOORS, OUTDOORS AND IN WASTEWATER CONVEYANCE; OUTLINES MEANS OF ACHIEVING MATERIAL CONSERVATION AND RESOURCE EFFICIENCY; AND OUTLINES MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS.
2. SWPPP: DEVELOP A SWPPP COMPLIANT WITH STATE STORM WATER NPDES CONSTRUCTION PERMIT OR LOCAL ORDINANCE, WHICHEVER IS STRICTER PER CALGREEN 5.106.1.
3. GRADING AND PAVING: SITE GRADING AND DRAINAGE SYSTEM SHALL SLOPE AWAY FROM THE BUILDING PER THE CONSTRUCTION DRAWINGS AND CALGREEN 5.106.10.
4. WEATHER PROTECTION: PROVIDE A WEATHER-RESISTANT EXTERIOR WALL AND FOUNDATION ENVELOPE AS SHOWN IN THE CONSTRUCTION DRAWINGS AND AS REQUIRED BY CALIFORNIA BUILDING CODE SECTION 1403.2 AND CALIFORNIA ENERGY CODE SECTION 150, MANUFACTURER'S INSTALLATION INSTRUCTIONS OR LOCAL ORDINANCE, WHICHEVER IS MORE STRINGENT PER CALGREEN 5.407.1.
5. CONSTRUCTION WASTE MANAGEMENT: RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65% OF NONHAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS OR MEET LOCAL ORDINANCE, WHICHEVER IS MORE STRINGENT PER CALGREEN 5.408.1.
6. CONSTRUCTION WASTE MANAGEMENT PLAN: WHERE A LOCAL JURISDICTION DOES NOT HAVE A CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE THAT IS MORE STRINGENT, SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN PER CALGREEN 5.408.1.1.
7. WASTE MANAGEMENT COMPANY: UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THE CONSTRUCTION WASTE MANAGEMENT. THE OWNER OR CONTRACTOR SHALL MAKE THE DETERMINATION IF THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY PER CALGREEN 5.408.1.2.
8. DOCUMENTATION: PROVIDE TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH CALGREEN SECTION 5.408.1.1 THROUGH 5.408.1.3. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY PER CALGREEN 5.408.1.4.
9. EXCAVATED SOIL AND LAND CLEARING DEBRIS: 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS FROM LAND CLEARING SHALL BE REUSED OR RECYCLED PER CALGREEN 5.408.3.
10. TESTING AND ADJUSTING: TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO CALGREEN SECTION 303.1 PER CALGREEN SECTION 5.410.4.
11. SYSTEMS: DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS, SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT HVAC AND LIGHTING AND CONTROLS PER CALGREEN 5.410.4.2.
12. PROCEDURES: PERFORM TESTING AND ADJUSTING PROCESS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, MANUFACTURER'S SPECIFICATIONS AND CALGREEN 5.410.4.3.
13. REPORTING: AFTER COMPLETION OF TESTING, ADJUSTING, AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THE SERVICES PER CALGREEN 5.410.4.4.
14. O & M MANUAL: PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH THE PROJECT SPECIFICATIONS, OSHA REQUIREMENTS IN CCR, TITLE 8 SECTION 5142, AND CALGREEN 5.410.4.5. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.

15. COVERING OF DUCT OPENING AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION: AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM PER CALGREEN 5.504.3.
16. ADHESIVES, SEALANTS, CAULKS: ADHESIVES AND SEALANTS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS PER CALGREEN 5.504.4.1:
 - a. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS, AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN CALGREEN TABLES 5.504.4.1 AND 5.504.4.2.
 - b. AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.
17. PAINTS AND COATINGS: ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH CALGREEN TABLE 5.504.4.2 UNLESS MORE STRINGENT LOCAL LIMITS APPLY PER CALGREEN 5.504.4.3.
18. AEROSOL PAINTS AND COATINGS: AEROSOL PAINTS AND COATINGS SHALL MEET THE PWMIR LIMITS FOR ROC IN SECTION 94522(A)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES IN SECTIONS 94522(C)(2) AND (D)(2) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520 PER CALGREEN 5.504.4.3.1.
19. VERIFICATION: VERIFICATION OF POLLUTANT CONTROL SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE MANUFACTURER'S PRODUCT SPECIFICATION OR FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS PER CALGREEN 5.504.4.3.2.
20. INDOOR MOISTURE CONTROL: BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CBC, CCR, TITLE 24, PART 2, SECTIONS 1203 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS) PER CALGREEN 5.505.1.
21. OUTSIDE AIR DELIVERY: FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 OF THE 2013 CEC, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8 PER CALGREEN 5.506.1.
22. CFCS: INSTALL HVAC AND REFRIGERATION EQUIPMENT THAT DOES NOT CONTAIN CFCS PER CALGREEN 5.508.1.1.

DESIGN CRITERIA:

1. APPLICABLE CODE: 2016 CALIFORNIA BUILDING CODE (2015 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF CALIFORNIA).
2. REFER TO THE SPECIFICATIONS FOR ADDITIONAL AND SPECIFIC STRUCTURAL LOADINGS AND REQUIREMENTS.
3. ROOF LOAD:
- MINIMUM LIVE LOAD 20 psf
4. FLOOR LOAD:
- LIGHT MANUFACTURING 125 psf
 - STAIRS AND EXITS 100 psf
5. WIND LOAD:
- BASIC WIND SPEED (ASCE 7-10) 115 mph
 - EXPOSURE CATEGORY C
 - DESIGN METHOD DIRECTIONAL PROCEDURE
6. SEISMIC LOAD:
- RISK CATEGORY IV
 - IMPORTANCE FACTOR I_e 1.5
 - S_{ds} 0.538 S_{os} 0.491
 - S_{d1} 0.260 S_{d1} 0.326
 - SITE CLASS D
 - SEISMIC DESIGN CATEGORY D
7. LATERAL FORCE RESISTING SYSTEM:
- FACILITY 20 TREATMENT BUILDING
 - SPECIAL REINFORCED MASONRY SHEAR WALLS
 - $V = C_u W$
 - $C_u = 0.148$
 - $R = 5$
 - ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
 - FACILITY 40 PARTIALLY BURIED CONCRETE TANK
 - $R_c = 1.0$
 - $R_t = 3.25$
 - $V = \text{SQRT}[(P_1 + P_2 + P_3)^2 + P_4^2 + P_{EG}^2]$
 - ANALYSIS PROCEDURE = AWWA D110-13, ACI 350.3-06, and ASCE 7-10

GENERAL INFORMATION:

1. ALL CONSTRUCTION SHALL CONFORM TO THE 2016 EDITION OF THE BUILDING CODE.
2. DESIGN DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO ALL SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE KEYED IN EACH LOCATION. CONSULT THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
3. VERIFY ALL OPENING DIMENSIONS IN WALLS, SLABS, AND DECKS WITH THE ARCHITECTURAL, MECHANICAL, HVAC AND ELECTRICAL DRAWINGS.
4. FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS AND OPENINGS SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, HVAC AND PLUMBING DRAWINGS. COORDINATE ALL OPENINGS AND EQUIPMENT PADS WITH OTHER DISCIPLINES AND EQUIPMENT SUPPLIERS PRIOR TO PLACING SLABS, WALLS AND FOUNDATIONS.
5. NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.

FOUNDATIONS:

1. IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT #11801.103 BY BAJADA GEOSCIENCES INC., FOUNDATIONS HAVE BEEN DESIGNED FOR THE FOLLOWING VALUES:
- ALLOWABLE BEARING CAPACITY:
 - PRESTRESSED CONCRETE TANK 4,000 psf
 - ALL OTHER FACILITIES 2,000 psf
 - MINIMUM FOOTING EMBEDMENT 18 INCHES
 - LATERAL EARTH PRESSURES (DRAINED):
 - ACTIVE 40 pcf
 - AT-REST 55 pcf
 - LATERAL EARTH PRESSURE (UNDRAINED):
 - ACTIVE 81 pcf
 - AT-REST 90 pcf
 - PASSIVE RESISTANCE 350 pcf
 - SLIDING FRICTION COEFFICIENT:
 - NATIVE SOILS 0.30
 - AT THE PRESTRESSED CONC TANK 0.40
2. NO BACKFILL SHALL BE PLACED BEHIND CANTILEVERED, FREE TOP WALLS UNTIL THE CONCRETE HAS ATTAINED 100% OF ITS SPECIFIED COMPRESSIVE STRENGTH.
3. GRADE TO DRAIN AWAY FROM STRUCTURES A MINIMUM GRADE OF 5% FOR A MINIMUM OF 10'-0" FROM STRUCTURE PERIMETER.
4. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AT LEAST 48 BUSINESS HOURS NOTICE FOLLOWING EXCAVATION FOR FOUNDATIONS AND PRIOR TO THE PLACEMENT OF FORMWORK, REINFORCING STEEL AND CONCRETE.

FORMWORK, SHORING AND BRACING:

1. THE STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED FOR STABILITY UNDER FINAL CONDITIONS ONLY. THE DESIGN SHOWN DOES NOT INCLUDE THE NECESSARY COMPONENTS OR EQUIPMENT FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. THE CONTACTOR IS RESPONSIBLE FOR ALL WORK RELATING TO CONSTRUCTION ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS REQUIRED TO SAFELY PERFORM THE WORK SHOWN. CONSTRUCTION OF SHORING AND BRACING OF FORMWORK SHALL BE IN ACCORDANCE WITH ACI 347 "GUIDE TO FORMWORK FOR CONCRETE".

CONCRETE:

1. STRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND 5,000 PSI AS SPECIFIED IN SECTION 03300 - CAST-IN-PLACE CONCRETE. NONSTRUCTURAL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI
2. THE CONTRACTOR SHALL SUBMIT THE CONCRETE MIX DESIGNS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO USE.
3. HORIZONTAL CONSTRUCTION JOINTS SHALL BE PREPARED TO EXPOSE CLEAN, SOLIDLY EMBEDDED AGGREGATE OVER THE ENTIRE JOINT INTERFACE.
4. PLACEMENT OF PIPES, CONDUITS OR OTHER EMBEDDED ITEMS IN THE CONCRETE SHALL BE IN ACCORDANCE WITH THESE DRAWINGS OR SHALL BE APPROVED BY THE ENGINEER.
5. NO ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
6. CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
7. THE REQUIREMENTS FOR CONCRETE MIXES, PLACING, TESTING AND CURING ARE CONTAINED IN THE PROJECT SPECIFICATIONS.
8. PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE II, AGGREGATE SHALL CONFORM TO ASTM C33.
9. CONTINUOUS WATERSTOP, AS SPECIFIED, SHALL BE INSTALLED IN ALL EXPANSION, CONTRACTION, CONTROL AND CONSTRUCTION JOINTS IN WALLS AND SLABS OF WATER HOLDING BASINS, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
10. THE CONCRETE JOINTS IN SLABS AND WALLS, AS SHOWN, ARE MINIMUM REQUIREMENTS. CONTRACTOR MAY SUBMIT ALTERNATE CONSTRUCTION JOINT LAYOUT DRAWINGS, SUBJECT TO SPECIFIED REQUIREMENTS, TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
11. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AT LEAST 48 BUSINESS HOURS NOTICE PRIOR TO THE PLACEMENT OF CONCRETE TO ALLOW SUFFICIENT TIME FOR INSPECTIONS AND SCHEDULING OF TESTING SERVICES.

CONCRETE REINFORCING:

1. CLEARANCE FOR REINFORCEMENT BARS, UNLESS SHOWN OTHERWISE, SHALL BE: CAST AGAINST EARTH = 3", CONCRETE SURFACES OF WATER BEARING STRUCTURES = 2", ALL OTHER CONCRETE SURFACES: #5 BAR OR SMALLER = 1 1/2", #6 BAR OR LARGER = 2".
2. REFER TO WALL CORNER AND WALL INTERSECTION REINFORCING DETAIL 3303. WALL CORNER REINFORCING SIZES AND SPACINGS SHALL BE AS SHOWN ON THE DRAWINGS AND REFERENCED TO THIS DETAIL. TYPICAL HORIZONTAL WALL REINFORCING SHALL LAP WITH THE CORNER HORIZONTAL REINFORCING.
3. PROVIDE A MINIMUM OF TWO VERTICAL WALL BARS WITH MATCHING DOWELS AT WALL ENDS, CORNERS AND INTERSECTIONS WITH SIZE TO MATCH TYPICAL VERTICAL REINFORCING STEEL AS SHOWN. VERTICAL WALL BARS SHALL BE LAPPED WITH DOWELS FROM BASE SLABS AND EXTENDED INTO THE TOP FACE OF ROOF SLABS AND LAPPED WITH TOP SLAB REINFORCEMENT.
4. ALL BENDS, UNLESS OTHERWISE SHOWN, SHALL BE 90 DEGREE ACI 318 STANDARD HOOKS.
5. ALL REINFORCING BENDS AND LAPS, UNLESS OTHERWISE NOTED, SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:
- | CONCRETE DESIGN STRENGTH = 4,000 PSI # | | GRADE 60 REINFORCED STEEL | | | | | | |
|--|--|---------------------------|-------|-------|--------|-------|--------|-------|
| BAR SIZE | | #4 | #5 | #6 | #7 | #8 | #9 | #10 |
| LAP SPLICE LENGTH | | | | | | | | |
| TOP BAR * | | 2'-8" | 3'-4" | 4'-0" | 5'-10" | 6'-8" | 7'-7" | 8'-6" |
| OTHER BAR | | 2'-1" | 2'-7" | 3'-1" | 4'-6" | 5'-2" | 5'-10" | 6'-7" |
- * TOP BARS SHALL BE DEFINED AS ANY HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR IN ANY SINGLE POUR. HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.
- # WHERE 3,000 PSI CONCRETE IS USED, INCREASE ABOVE LENGTHS BY 16%.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATION:
- HOLLOW STRUCTURAL SECTIONS: A500 GRADE B MINIMUM $F_y = 46$ ksi
 - PIPE: A53 GRADE B MINIMUM $F_y = 35$ ksi
 - WIDE FLANGE SECTIONS: A992 MINIMUM $F_y = 50$ ksi
 - PLATES, ANGLES, AND CHANNELS: A36 MINIMUM $F_y = 36$ ksi
3. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.
4. STRUCTURAL STEEL SHALL BE FREE OF EXCESSIVE RUST, MILL SCALE OR GREASE.
5. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO THE REQUIREMENTS OF CBC SECTION 2204 AND THE AMERICAN WELDING SOCIETY (AWS), LATEST EDITION, AS FOLLOWS:
- D1.1, STRUCTURAL WELDING CODE – STEEL
 - D1.2, STRUCTURAL WELDING CODE – ALUMINUM
 - D1.6, STRUCTURAL WELDING CODE – STAINLESS STEEL
6. WELDING ELECTRODES SHALL BE THE FOLLOWING TYPES: E70XX.
7. ALL FILLET WELDS SHALL BE AISC MINIMUM AND BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE.
8. ALL BOLTS SHALL BE HIGH-STRENGTH ASTM A325X UNLESS NOTED OTHERWISE. ASTM F1852 HIGH-STRENGTH BOLTS SHALL BE USED FOR TWIST-OFF BOLTS. ALL HIGH-STRENGTH BOLTED CONNECTIONS SHALL BE ASSUMED TO BE SNUG-TIGHTENED JOINTS. SLIP CRITICAL CONNECTIONS SHALL BE NOTED AS A325X-SC, UNLESS NOTED OTHERWISE.
9. DISTANCE FROM EDGE OF PLATE TO CENTER OF BOLT SHALL BE 1 1/2" UNO.
10. INSTALLATION AND INSPECTION OF HIGH STRENGTH BOLTS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST AISC SPECIFICATION, SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS (RCSC).
11. THE STRUCTURAL STEEL FABRICATOR/CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO FABRICATION.

FOR PROPOSAL
PURPOSES ONLY,
NOT FOR
CONSTRUCTION



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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)

ROSEVILLE, CALIFORNIA

GENERAL
STRUCTURAL NOTES

DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-G-008

SHEET NUMBER
8

PREFABRICATED OPEN WEB METAL JOISTS:

1. JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE AISC AND THE STEEL JOIST INSTITUTE.
2. DESIGN OPEN WEB STEEL JOISTS FOR THE FOLLOWING LOADS:
- ROOF LIVE LOAD 20 psf
 - SUPERIMPOSED ROOF DEAD LOAD 15 psf
 - FASCIA 200 lb CONCENTRATION AT OVERHANGS
 - MECH/ELEC/PIPING 300 lb POINT LOAD AT ANY PANEL POINT (BTM CHORD)
 - NET WIND UPLIFT, TYPICAL JOIST 18 psf OUTWARD
 - ROOF OVERHANGS 27 psf OUTWARD
 - AXIAL TOP CHORD DRAG FORCE 2.41 k (ASD, TENSION AND COMPRESSION)
3. LOADS INDICATED ABOVE ARE MINIMUM DESIGN LOADS AND SHALL NOT BE CONSTRUED TO BE ALL LOADS APPLICABLE TO THE DESIGN OF THE OPEN WEB METAL JOISTS. DEAD LOADS INFERRED BY THE DRAWINGS WHICH WOULD BE INCLUDED IN COMMON PRACTICE, INCLUDING EQUIPMENT LOADS AND CONSTRUCTION LOADS, SHALL BE INCLUDED IN THE DESIGN.
4. VERIFY AND COORDINATE EQUIPMENT WEIGHTS, LOCATIONS, AND ATTACHMENT REQUIREMENTS PRIOR TO JOIST FABRICATION. EQUIPMENT SUPPLIER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE VERTICAL AND LATERAL SUPPORT OF THEIR EQUIPMENT. JOIST MANUFACTURER SHALL PROVIDE ADDITIONAL DIAGONAL WEB MEMBERS AT CONCENTRATED LOAD LOCATIONS.
5. WIND ANALYSIS FOR THE JOISTS SHALL USE THE PROVISIONS OF THE 2016 CBC AND ASCE 7-10 FOR COMPONENTS AND CLADDING.
6. JOIST SIZES AND CHORD SIZES INDICATED ON THE PLANS ARE MINIMUM ONLY. DESIGN BY THE JOIST MANUFACTURER MAY RESULT IN A LARGER SIZE. JOISTS SHALL HAVE DOUBLE ANGLE CHORDS.
7. PROVIDE CALCULATIONS, PRODUCT DATA, MATERIAL PROPERTIES, CONNECTION DETAILS, ETC. FOR ALL TYPES OF JOISTS. CALCULATIONS SHALL BE STAMPED AND SIGNED BY AN ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT.
8. JOIST BRIDGING, BOTTOM CHORD BRACING, AND OTHER ACCESSORIES SHALL BE PER THE MANUFACTURER'S STANDARDS AND AS INDICATED ON THE DRAWINGS. BRACING SHALL EXTEND TO WALLS.
9. JOIST ENDS SHALL BE DESIGNED WITH A SLOPED SEAT FOR THE LEVEL BEARING SURFACE.

MASONRY:

1. SOLID GROUT ALL CELLS UNLESS INDICATED OTHERWISE.
2. MORTAR SHALL CONFORM TO ASTM C270, TYPE S, HYDRATED AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1,900 PSI.
3. GROUT SHALL CONFORM TO ASTM C476 AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI CONTAINING NO MASONRY CEMENT.
4. CONCRETE BLOCK UNITS SHALL BE MEDIUM WEIGHT AND CONFORM TO ASTM C90 AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1,900 PSI. LINEAR SHRINKAGE SHALL NOT EXCEED 0.065 PERCENT.
5. PLACE COURSES IN RUNNING BOND PATTERN, UNLESS SPECIFICALLY INDICATED OTHERWISE.
6. REINFORCING STEEL FOR MASONRY SHALL CONFORM TO ASTM A615, GRADE 60 FOR DEFORMED BARS. LAP VERTICAL REINFORCING 48 BAR DIAMETERS WITH DOWELS AT BUILDING WALLS. LAP ALL OTHER VERTICAL BARS 72 BAR DIAMETERS. LAP VERTICAL BARS IN CANTILEVER WALLS 72 BAR DIAMETERS. STAGGER ADJACENT LAP SPLICES BY 24 INCHES, WHEN SEPARATED BY 3 INCHES OR LESS. REFERENCE STANDARD DETAIL 4002 - REINFORCED CMU WALL.
7. HORIZONTAL REINFORCING BARS SHALL BE CONTINUOUS AROUND WALL CORNERS AND THROUGH WALL INTERSECTIONS AND HOOKED AT WALL ENDS AS SHOWN IN THE DETAILS.
8. VERTICAL REINFORCING SHALL BE PLACED AT CORNERS, EACH SIDE OF OPENINGS, END WALLS (INCLUDING EACH SIDE OF CONTROL JOINTS), AT A MAXIMUM SPACING INDICATED IN THE DRAWINGS, AND CONTINUOUS FROM FOUNDATION TO TOP OF WALL.
9. CMU REINFORCING AT WALL INTERSECTIONS AND CORNERS SHALL BE AS INDICATED IN STANDARD DETAIL 4001 - CMU WALL CORNERS, UNLESS INDICATED OTHERWISE.
10. CMU REINFORCING AT ALL WALL ENDS, JAMBS AND DOOR OPENINGS, WINDOW LINTELS, LOUVERS AND PENETRATIONS SHALL BE INDICATED IN STANDARD DETAIL 4004 - CMU OPENINGS GREATER THAN 3'-0" OR STANDARD DETAIL 4003 - CMU OPENINGS LESS THAN 3'-0", UNLESS INDICATED OTHERWISE.
11. CMU WALL CONTROL JOINTS SHALL BE LOCATED WHERE SHOWN ON THE DRAWINGS, AND SHALL RUN CONTINUOUS FROM THE TOP OF FOUNDATION TO TOP OF WALL OR PARAPET. ALL HORIZONTAL NON-STRUCTURAL BARS SHALL BE TERMINATED IN A STANDARD HOOK EACH SIDE OF JOINT. STRUCTURAL BARS SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.

COLD-FORMED STEEL:

1. ALL MEMBERS AND ACCESSORIES SHALL BE ASTM A570 OR A446, WITH MINIMUM YIELD OF 33ksi FOR 18ga & 20ga, 50ksi FOR 14ga & 16ga, HAVING SECTION PROPERTIES AND GAUGE AS NOTED ON THE DRAWINGS.
2. FRAMING HARDWARE NOTED IS SIMPSON STRONG-TIE AND SHALL BE INSTALLED WITH CONNECTIONS SPECIFIED FOR EACH SPECIFIC DEVICE BY THE MANUFACTURER'S CURRENT CATALOG. EQUIVALENT DEVICES APPROVED BY THE ENGINEER MAY BE SUBSTITUTED.
3. INSTALLATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS MODIFIED BY NOTES ON THE DRAWINGS.
- STAINLESS STEEL:**
1. STAINLESS STEEL MEMBERS SHALL CONFORM TO ASTM SPECIFICATIONS:
- PLATES: A240
 - BARS AND SHAPES: A276
 - FASTENERS AND FITTINGS: A320
 - DEFORMED AND PLAIN BARS: A955
2. ALL COMPONENTS SHALL BE STAINLESS STEEL TYPE 316, UNLESS SHOWN OTHERWISE.
3. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWS D1.6. WELDERS SHALL HOLD VALID CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY WITHIN THE LAST 12 MONTHS.
4. ALL FILLET WELDS SHALL BE AWS MINIMUM AND BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP), UNLESS INDICATED OTHERWISE.
5. WELDERS SHALL SUBMIT PRE-QUALIFIED WELDS AND WELDING PROCEDURES FOR REVIEW AND TO BE AVAILABLE ON PREMISES FOR REVIEW.
6. OPENINGS SHALL NOT BE PLACED IN STAINLESS STEEL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS.
7. THE STAINLESS STEEL FABRICATOR/CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF ALL STAINLESS STEEL FOR ENGINEER'S REVIEW AND APPROVAL PRIOR TO FABRICATION.

ALUMINUM:

1. ALUMINUM CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE ALUMINUM CONSTRUCTION MANUAL OF THE ALUMINUM ASSOCIATION.
2. UNLESS OTHERWISE INDICATED, STRUCTURAL ALUMINUM MEMBERS SHALL BE ALLOY 6061-T6.
3. WHERE ALUMINUM IS IN CONTACT WITH CONCRETE OR MASONRY SURFACES, CONTACT SURFACES SHALL BE COATED WITH HEAVY ALKALI-RESISTANT BITUMINOUS PAINT.
4. GRATING AND CHECKERED PLATE SHALL BE ALUMINUM, UNLESS NOTED OTHERWISE. PROVIDE FULLY BANDED ALUMINUM GRATING WITH NON-SKID SURFACE OVER AREAS INDICATED ON THE DRAWINGS. MATERIAL SHALL BE 6061-T6 OR 6063-T6 PROVIDED WITH AN ANODIZED FINISH AND MEET THE STRENGTH AND DEFLECTION REQUIREMENTS.
5. THE ALUMINUM FABRICATOR/CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF ALL ALUMINUM MEMBERS AND GRATING FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO FABRICATION.

ADHESIVE ANCHORS:

1. THE ADHESIVE ANCHOR SYSTEM USED FOR POST-INSTALLED ANCHORAGE TO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY PUBLISHED ACI 308.4, ACCEPTANCE CRITERIA FOR QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE AND COMMENTARY. THE ANCHOR SYSTEM SHALL BE ONE OF THE FOLLOWING:
- HILTI HIT-HY 200.
 - SIMPSON SET-XP.
2. ADHESIVE ANCHORS SHALL BE SUPPLIED AS AN ENTIRE SYSTEM INCLUDING, BUT NOT LIMITED TO, THE NEW ADHESIVE CARTRIDGE, A CLEAN MIXING NOZZLE, EXTENSION TUBE, A DISPENSING GUN, AND ALL MANUFACTURER RECOMMENDED SUPPLIES FOR PROPERLY CLEANING THE DRILLED HOLE.
3. ALL-THREAD ROD TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES SHALL CONFORM TO ASTM A36, A193 (GR B7), A307, OR F1554. STAINLESS STEEL ANCHOR RODS SHALL BE TYPE 316. NUTS, WASHERS, AND OTHER HARDWARE USED WITH AN ALL-THREAD SHALL HAVE A MATERIAL OR ALLOY DESIGNATION THAT MATCHES THE ALL-THREAD MATERIAL / ALLOY.
4. REINFORCING BARS SHALL BE ASTM A615 OR A706.
5. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT THE TIME OF ADHESIVE ANCHOR INSTALLATION. CONCRETE SHALL HAVE A MINIMUM AGE OF 21 DAYS AT THE TIME OF ADHESIVE ANCHOR INSTALLATION.
6. CONCRETE TEMPERATURE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION SHALL BE AT LEAST 50°F.
7. EMBEDMENT DEPTH AND ANCHOR PROJECTION FROM THE CONCRETE SURFACE SHALL BE AS SHOWN ON THE DRAWINGS FOR THE PARTICULAR ANCHOR OR GROUP OF ANCHORS BEING INSTALLED. ABSENT ANY INFORMATION, THE MINIMUM EMBEDMENT DEPTH SHALL BE 12d WHERE "d" IS THE ANCHOR DIAMETER.
8. ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE SPECIFICATIONS. POST-INSTALLED ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
9. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. THESE ANCHORS ARE DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALL-OUT.
10. THE INSTALLER'S QUALIFICATIONS SHALL BE SUBMITTED AND APPROVED IN ACCORDANCE WITH SECTION 05051 OF THE SPECIFICATIONS.
11. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR.
12. SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705 AND THE REQUIREMENTS OF THE ICC REPORT. THE SPECIAL INSPECTOR MUST BE PERIODICALLY ON THE JOBSITE DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE, ANCHOR SPACING, AND CONCRETE THICKNESS.
13. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE BUILDING OFFICIAL.

EXPANSION ANCHORS:

1. EXPANSION ANCHORS SHALL BE STAINLESS STEEL HILTI KWIK BOLT TZ OR SIMPSON STRONG-BOLT 2, UNLESS NOTED OTHERWISE. INSTALL ANCHORS IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS AND ICC REPORT.
2. SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705 AND THE REQUIREMENTS OF THE ICC REPORT.
3. CONTRACTOR SHALL VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESSES ARE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS PRIOR TO INSTALLING ANCHORS.
4. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR.
5. THE SPECIAL INSPECTOR MUST BE PRESENT ON THE JOB SITE DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE, ANCHOR SPACING, AND CONCRETE THICKNESS.

FOR PROPOSAL
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STRUCTURAL NOTES			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-G-009			
SHEET NUMBER 9			

DEFERRED SUBMITTALS:

1. PER 2016 CBC 107.3.4.1 THE FOLLOWING ITEMS, DRAWINGS AND CALCULATIONS, SHALL BE STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT. ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEW AND APPROVAL. FOLLOWING APPROVAL BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, THE CONTRACTOR SHALL SUBMIT THE ITEMS TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE STRUCTURE. THE CONTRACTOR SHALL NOT START FABRICATION OR ERECTION PRIOR TO REVIEW AND APPROVAL BY THE BUILDING OFFICIAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL TIME AND EFFORT REQUIRED TO OBTAIN A BUILDING OFFICIAL REVIEW/PERMIT FOR THE FOLLOWING PREFABRICATED STRUCTURAL COMPONENTS:
- HANDRAIL AND GUARDRAIL
 - PIPE SUPPORT SYSTEM
 - OPEN WEB STEEL JOISTS
 - ANCHORAGE OF EQUIPMENT OVER 400 POUNDS

STRUCTURAL OBSERVATION:

1. STRUCTURAL OBSERVATION SHALL BE IN ACCORDANCE WITH THE 2016 CBC SECTION 1704.6 TOGETHER WITH LOCAL AND STATE AMENDMENTS.
2. THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR ANY REQUIRED SPECIAL INSPECTIONS OR INSPECTIONS BY THE BUILDING OFFICIAL.
3. ONSITE STRUCTURAL OBSERVATION SHALL BE PERFORMED AT LEAST ONCE A MONTH, PLUS AT COMPLETION, FOR EACH SEISMIC FORCE OR WIND FORCE RESISTING SYSTEM IDENTIFIED, INCLUDING FOUNDATIONS AND CONNECTIONS.
4. AT THE CONCLUSION OF CONSTRUCTION, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
5. STRUCTURAL OBSERVATION SHALL INCLUDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM FOR EACH STRUCTURE CONTAINED IN THE WORK. THE CONTRACTOR SHALL SCHEDULE AND FACILITATE STRUCTURAL OBSERVATION INCLUDING THE FOLLOWING:
- FOUNDATION REINFORCING STEEL, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS PRIOR TO CONCRETE PLACEMENT.
 - WALL TO FOUNDATION CONNECTIONS PRIOR TO FORM CLOSURE FOR ALL MATERIALS.
 - ELEVATED CONCRETE SLABS PRIOR TO CONCRETE PLACEMENT.
 - MASONRY WALL REINFORCING STEEL PRIOR TO GROUTING AND PRIOR TO CLOSING OF CLEANOUTS.
 - SYSTEM CONNECTION EMBEDS PRIOR TO GROUT OR CONCRETE PLACEMENTS.
 - CONCRETE WALL TO ROOF CONNECTIONS PRIOR TO FORM CLOSURE OR OTHER COVER.
 - STEEL DECK CONNECTIONS PRIOR TO INSTALLATION OF ROOFING.

STATEMENT OF SPECIAL INSPECTIONS:

1. SPECIAL INSPECTION IS IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 110 OF THE CBC. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE TYPES OF WORK INDICATED BELOW.
2. SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT QUALIFIED PERSON WHO IS ACCEPTABLE TO THE ENGINEER AND BUILDING DEPARTMENT. THE INSPECTORS FOR EACH SYSTEM AND MATERIAL WILL BE ICC CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION.
3. INSPECTION RECORDS AND TESTING REPORTS SHALL BE SUBMITTED TO THE ENGINEER, OWNER, AND BUILDING OFFICIAL WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION.
4. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF DISCREPANCIES SHALL BE SUBMITTED.
5. PERIODIC SPECIAL INSPECTION IS DEFINED AS SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED
6. SPECIAL INSPECTION IS REQUIRED PER CHAPTER 17 OF THE CBC FOR THE FOLLOWING ITEMS:
- SOILS (BY CONTRACTOR PER SPECIFICATION SECTION 02300)
 - CONCRETE CONSTRUCTION
 - MASONRY CONSTRUCTION
 - STEEL CONSTRUCTION
 - OPEN-WEB STEEL JOISTS

REQUIRED VERIFICATION AND SPECIAL INSPECTION OF SOILS					
VERIFICATION AND INSPECTION		CONTINUOUS	PERIODIC	REFERENCED STANDARD	2016 CBC REFERENCE
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	-	X	SECTION 02300 - EARTHWORK	1705.6, 1804
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	-	X	SECTION 02300 - EARTHWORK	1705.6
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X	SECTION 02300 - EARTHWORK	1705.6
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	-	SECTION 02300 - EARTHWORK	1705.6
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	-	X	SECTION 02300 - EARTHWORK	1705.6

REQUIRED SPECIAL INSPECTION OF CONCRETE CONSTRUCTION					
VERIFICATION AND INSPECTION		CONTINUOUS	PERIODIC	REFERENCED STANDARD	2016 CBC REFERENCE
1.	INSPECTION OF REINF STEEL AND PLACEMENT	-	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
3.	INSPECTION OF ANCHORS CAST IN CONCRETE	-	X	ACI 318: 17.8.2	-
4.a.	INSPECTION OF ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	-	ACI 318: 17.8.2.4	-
4.b.	INSPECTION OF MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	X	ACI 318: 17.8.2	-
5.	VERIFYING USE OF REQUIRED DESIGN MIX	-	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM: C172, C31 ACI318: 26.4, 26.12	1908.10
7.	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9.	INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES	X	-	ACI 318: 26.10	-
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS	-	X	ACI 318: 26.11.2	-
12.	INSPECTION FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	-	X	ACI 318: 26.11.1.2(b)	-

REQUIRED SPECIAL INSPECTION OF MASONRY CONSTRUCTION, LEVEL C, RISK CATEGORY IV					
INSPECTION TASK		CONTINUOUS	PERIODIC	REFERENCE STANDARD: ACI 530/ASCE 5	REFERENCE STANDARD: ACI 530.1/ASCE 6
1.	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	-	X	-	Art. 1.5
2.	VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
2a.	PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT	-	X	-	Art. 2.1, 2.6 A
2b.	GRADE, TYPE, AND SIZE OF REINF AND ANCHOR BOLTS	-	X	Sec. 1.16	Art. 2.4, 3.4
2c.	PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	-	X	-	Art. 3.3 B
2d.	PLACEMENT OF REINF AND CONNECTORS	X	-	Sec. 1.16	Art. 3.2 E, 3.4, 3.6 A
2e.	GROUT SPACE PRIOR TO GROUTING	X	-	-	Art. 3.2 D, 3.2 F
2f.	PLACEMENT OF GROUT	X	-	-	Art. 3.5
2g.	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	-	X	-	Art. 3.3 F
2h.	TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	X	-	Sec. 1.16.4.3, 1.17.1	-
2i.	WELDING AND REINFORCING BARS	X	-	Sec. 2.1.7.7.2, 3.3.3.4 (c), 8.3.3.4 (b)	-
2j.	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER OR HOT WEATHER	-	X	-	Art. 1.8 C, 1.8 D
3.	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	X	-	-	Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4
REQUIRED MINIMUM TESTS:					
1.	VERIFICATION OF fm PRIOR TO CONSTRUCTION	-	X	-	Art. 1.4 B
2.	VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT AS DELIVERED TO THE PROJECT SITE				
3.	VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT	-	X	-	Art. 1.5 B.1.b.3

REQUIRED SPECIAL INSPECTION OF OPEN-WEB STEEL JOISTS			
VERIFICATION AND INSPECTION		CONTINUOUS	PERIODIC
1.a.	END CONNECTIONS – WELDED OR BOLTED	-	X
1.b.	BRIDGING – HORIZONTAL OR DIAGONAL	-	X
1.b.1	STANDARD BRIDGING	-	X
1.b.2	BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	-	X

FOR PROPOSAL PURPOSES ONLY, NOT FOR CONSTRUCTION



DESIGNED
J. KELLOGG

DRAWN
J. MARTIN

CHECKED
S. KADER

APPROVED
M. FISHER

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CITY OF ROSEVILLE

WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)

ROSEVILLE, CALIFORNIA

GENERAL

STRUCTURAL LEGEND

SPECIAL INSPECTION TABLES

DATE

NOVEMBER 2019

PROJECT NUMBER

17-083

DRAWING NUMBER

WD00-G-010

SHEET NUMBER

10

STATEMENT OF SPECIAL INSPECTIONS CONTINUED:

REQUIRED SPECIAL INSPECTION OF STEEL CONSTRUCTION (ANSI/AISC 360-10)		
QUALITY CONTROL (QC) INSPECTION TASKS SHALL BE PERFORMED BY THE FABRICATOR'S OR ERECTOR'S QUALITY CONTROL INSPECTOR (QCI). QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. QA INSPECTION OF ERECTED STEEL SYSTEMS SHALL BE MADE AT THE PROJECT SITE. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL REVIEW THE MATERIAL TEST REPORTS AND CERTIFICATIONS FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. O = OBSERVE THESE ITEMS ON A RANDOM BASIS. P = PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.		
INSPECTION TASKS PRIOR TO WELDING	QC	QA
1. WELDING PROCEDURE SPECIFICATIONS AVAILABLE	P	P
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
3. MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
4. WELDER IDENTIFICATION SYSTEM	O	O
5. FIT-UP OF GROOVE WELDS	O	O
JOINT PREPARATION		
DIMENSIONS		
CLEANLINESS		
TACKING		
BACKING TYPE		
6. CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
7. FIT-UP OF FILLET WELDS	O	O
DIMENSIONS		
CLEANLINESS		
TACKING		
8. CHECK WELDING EQUIPMENT	O	-
INSPECTION TASKS DURING WELDING	QC	QA
1. USE OF QUALIFIED WELDERS	O	O
2. CONTROL AND HANDLING OF WELDING	O	O
PACKAGING		
EXPOSURE CONTROL		
3. NO WELDING OVER CRACKED TACK WELDS	O	O
4. ENVIRONMENTAL CONDITIONS	O	O
WIND SPEED WITHIN LIMITS		
PRECIPITATION AND TEMPERATURE		
5. WPS FOLLOWED		
SETTINGS ON WELDING EQUIPMENT	O	O
TRAVEL SPEED		
SELECTED WELDING MATERIALS		
SHIELDING GAS TYPE/FLOW RATE		
PREHEAT APPLIED		
INTERPASS TEMPERATURE MAINTAINED	O	O
PROPER POSITION		
6. WELDING TECHNIQUES		
INTERPASS AND FINAL CLEANING		
EACH PASS WITHIN PROFILE LIMITATIONS	O	O
EACH PASS MEETS QUALITY REQUIREMENTS		
INSPECTION TASKS AFTER WELDING	QC	QA
1. WELDS CLEANED	O	O
2. SIZE, LENGTH AND LOCATION OF WELDS	P	P
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	P
CRACK PROHIBITION		
WELD/BASE METAL FUSION		
CRATER CROSS SECTION		
WELD PROFILES		
WELD SIZE		
UNDERCUT		
POROSITY		
4. ARC STRIKES	P	P
5. k-AREA	P	P
6. BACKING AND WELD TABS REMOVED	P	P
7. REPAIR ACTIVITIES	P	P

8. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P
INSPECTION TASKS PRIOR TO BOLTING	QC	QA
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE	O	O
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O
INSPECTION TASKS DURING BOLTING	QC	QA
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O
INSPECTION TASKS AFTER BOLTING	QC	QA
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

GENERAL
STRUCTURAL LEGEND
SPECIAL INSPECTION TABLES

DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-G-011

SHEET NUMBER 11

1 PIPING SYMBOLS			2 PUMPS			3 ACTUATORS			4 MISC FITTING SYMBOLS			5 PIPING DESIGNATIONS			6																																																																																																																																																																																																																																					
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RESS DRAWN C. WORRALL CHECKED S. KADER APPROVED M. FISHER CITY OF ROSEVILLE CALIFORNIA WATERWORKS ENGINEERS 2280 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-785-2888 CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA GENERAL MECHANICAL LEGEND DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD00-G-012 SHEET NUMBER 12		
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PIPE SCHEDULE:

FLOW STREAM I.D.	DESCRIPTION	SERVICE	EXPOSURE	SIZE RANGE	MATERIAL	JOINT TYPE	TEST PRESSURE	LINING	COATING SYSTEM	NOTES
CD	Condensate Drain	Water	All	All	PVC3	SLV	None	None	None	
DFR	Diesel Fuel Return	Fuel	All	All	BSP	THD	150 psi	None	No. 300	
DFS	Diesel Fuel Supply	Fuel	All	All	BSP	THD	150 psi	None	No. 300	
DR	Drain	Water	Buried	All	PVC3	SLV	Gravity	None	None	
			Exposed	<2"	PVC1	SLV	Gravity	None	None	
				2-3"	PVC3					
				>3"	DIP	FLG		CM	No. 300	
LDP	Leak Detection, Perforate	Water	All	All	HDPE2	PO	Gravity	None	None	
LDS	Leak Detection, Solid Wall	Water	All	All	HDPE1	PO	Gravity	None	None	
OF	Overflow	Water	All	All	WSSTP	WLD/FLG	None	None	None	Type 304
PD	Pumped Drain	Water	All	2"	PVC1	SLV	25 psi	None	None	
				>2"	WSP	WLD		None	No. 300	
PW	Potable Water	Water	Buried	<4"	COP	SLD	150 psi	None	PE Wrap	
				>=4"	DIP	PRJ/RMJ		CM	Asphaltic	Note 1
			Exposed	<4"	COP	SLD		None	None	
				>=4"	WST	PRJ		Fusion Epoxy	Fusion Epoxy	
			Submerged	All	WSST	WLD/FLG		None	None	
RW	Recycled Water	Water	All	All	PVC1	SLV	50 psi	None	Purple Pipe	
SA	Sample	Water	All	All	COP	SLD	150 psi	None	None	
SD	Storm Drain	Water	All	All	HDPE1	PO	Gravity	None	None	
SHC	Sodium Hypochlorite 12.5	Chemical	All	1/2"x2"	CHE	COMP	150 psi	None	None	Note 2
				1/2", 1", 2"	CPVC	SLV	150 psi	None	None	
SS	Sanitary Sewer	Sewage	All	All	VCP	PO	Gravity	None	None	Note 3
SS	Sanitary Sewer	Sewage	All	All	DIP	PRJ	Gravity	None	None	Note 3
UD	Underdrain	Water	All	All	HDPE3	PO	Gravity	None	None	
V	Vent	Air/Water	All	All	PVC3	SLV	None	None	None	
VTR	Vent Through Roof	Air	All	All	CPVC	SLV	None	None	None	
WDP	Wall Drain, Perforated	Water	All	All	HDPE2	PO	Gravity	None	None	
WDS	Wall Drain, Solid Wall	Water	All	All	HDPE1	PO	Gravity	None	None	

1. Buried PW piping 4-inches and larger shown as ductile iron with proprietary joints and mechanical joint fittings. At Contractor's option, buried PW piping 4-inches and larger may be cement lined and coated welded steel pipe (WSP) in lieu of ductile iron pipe. If WSP is selected, wall thimbles shown at structures as MxFLG shall be changed to FLGxFLG.
2. Provide rigid CPVC piping for sodium hypochlorite tank fill and discharge piping up to transition to tubing, as shown on the Drawings.
3. SS to be VCP or DIP at contractor's option, unless explicitly called out as DIP.

GENERAL NOTES:

1. This schedule is provided for the convenience of the CONTRACTOR. Some flow streams may be shown on the drawings, but not listed here.
2. Pipe Materials:

BSP – Black Steel Pipe

CHE – Chemical Tubing and Pipe System

COP – Copper Pipe

CPVC – Solvent Welded CPVC Pipe

DIP – Ductile Iron Pipe

HDPE1 – High Density Polyethylene Dual Wall Solid Drainage Pipe

HDPE2 – High Density Polyethylene Dual Wall Perforated Drainage Pipe

PVC1 – Solvent Welded Polyvinyl Chloride Pipe

PVC2 – PVC Pressure Pipe

PVC3 – Polyvinyl Chloride Drain, Waste and Vent Pipe

PVC4 – PVC Sewer Pipe

SSTP – Stainless Steel Pipe

SSTT – Stainless Steel Tubing

WSP – Welded Steel Pipe

WSSTP – Welded Stainless Steel Pipe

VCP - Vetrified Clay Pipe

4. Lining Systems:

CM – Cement Mortar

5. Coating Systems as specified in Section 09900.

5. Pipe colors shall be per City of Roseville Process Control Standards.
3. Joint Types

FLG – Flanged

GRV – Grooved End

MJ – Mechanical Joint

PO – Push On

PRJ – Proprietary Restrained Mechanical Joint

RMJ – Restrained Mechanical Joint

S – Swagelok stainless steel compression type

SLV – Solvent Welded Socket

SLD – Soldered Socket

THR – Threaded

WLD – Butt Welded
- FOR PROPOSAL
PURPOSES ONLY,
NOT FOR
CONSTRUCTION
-
- DESIGNED
J. RIESS

DRAWN
B. TROTTER

CHECKED
S. KADER

APPROVED
M. FISHER

CITY OF ROSEVILLE
CALIFORNIA

WATERWORKS
ENGINEERS
2200 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-785-2888

CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)

ROSEVILLE, CALIFORNIA

GENERAL

PIPE SCHEDULE

DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-G-013

SHEET NUMBER
13
- FILENAME: WD5400G013.dgn PLOT DATE: 11/7/2019 1:57:37 PM

HEATING, VENTILATING AND
AIR CONDITIONING SYMBOLS

	WALL REGISTER OR GRILLE (SUPPLY) WSG, WSR, HTR
	CEILING DIFFUSER OR REGISTER (SUPPLY) CD, RCD, SD
	CEILING REGISTER OR GRILLE (RETURN AND EXHAUST) CG, CR, PCR
	WALL REGISTER OR GRILLE (RETURN AND EXHAUST) EG
	FLOOR GRILLE (SUPPLY AND RETURN) FG
	TURNING VANES
	90° TAKEOFF
	SOUND ATTENUATED DUCT
	FIRE DAMPER FD
	SPLITTER DAMPER
	MANUAL OPPOSED-BLADE DAMPER
	MANUAL BUTTERFLY DAMPER
	MOTORIZED DAMPER
	SMOKE DAMPER SD
	FLEXIBLE CONNECTION
	FLEXIBLE DUCTWORK
	INCLINED RISE IN DUCT R
	INCLINED DROP IN DUCT D
	SUPPLY DUCT (SECTION)
	INTAKE, RETURN, OR EXHAUST DUCT (SECTION)
	THERMOSTAT
	IONIZATION SMOKE DETECTOR
	STATIC PRESSURE SENSOR
	ENVIRONMENT CONTROL PANEL ECP
	VIBRATION ELIMINATOR
	200 SCFM (200)
	MOTORIZED VALVE
	WALL LOUVER (SUPPLY OR EXHAUST)
	MOTORIZED WALL LOUVER (SUPPLY OR EXHAUST)

BUILDING SERVICES SYMBOLS

	HOSE RACK (TYPE AS INDICATED)
	EYEWASH
	SAFETY SHOWER
	EYEWASH WITH SAFETY SHOWER
	X = F - FLOOR CLEANOUT D - DECK CLEANOUT W - WALL CLEANOUT
	HUB DRAIN Y-T WITH TRAP Y-P WITH PRIMED TRAP
	FLOOR DRAIN X - NO. IN SPECS Y - T WITH TRAP Y - P WITH PRIMED TRAP
	OVERFLOW DRAIN
	ROOF DRAIN
	AREA DRAIN X = NO. IN SPECS Y = T WITH TRAP Y = P WITH PRIMED TRAP
	OVERFLOW NOZZLE

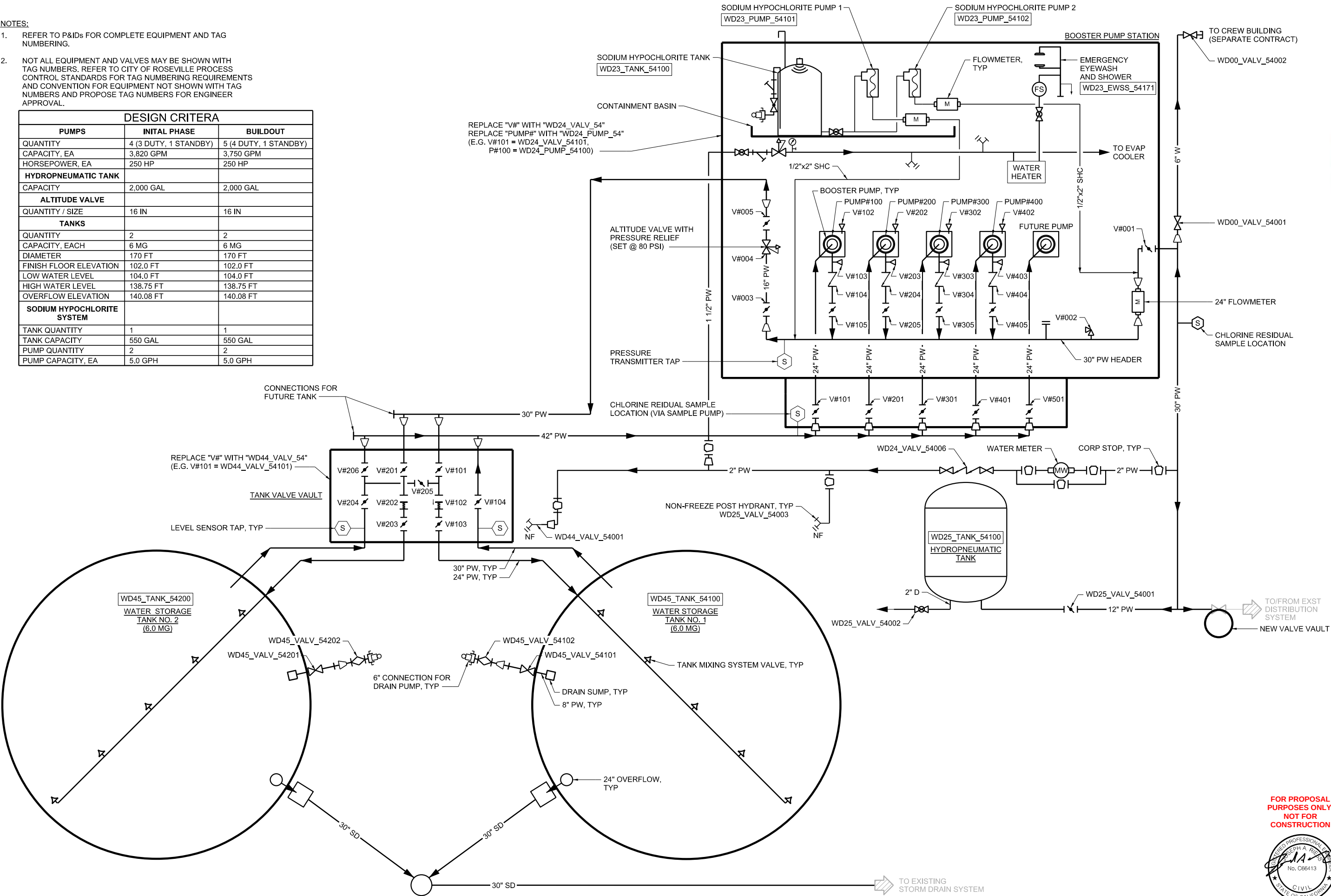
FOR PROPOSAL
PURPOSES ONLY,
NOT FOR
CONSTRUCTION



DESIGNED J. RIOS	DRAWN J. MARTIN	CHECKED S. KADER	APPROVED M. FISHER
WATERWORKS ENGINEERS 2280 Douglas Blvd. Suite 105 • Roseville, CA 95661 • 916-785-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL BUILDING SERVICES LEGEND			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-G-014			
SHEET NUMBER 14			

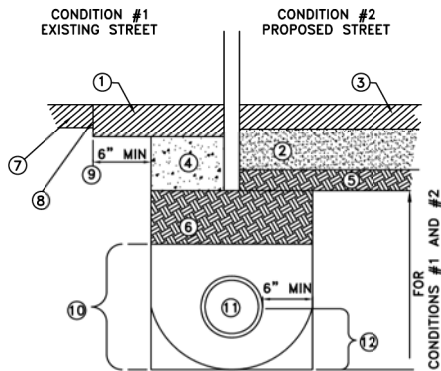
- NOTES:
1. REFER TO P&IDs FOR COMPLETE EQUIPMENT AND TAG NUMBERING.
2. NOT ALL EQUIPMENT AND VALVES MAY BE SHOWN WITH TAG NUMBERS. REFER TO CITY OF ROSEVILLE PROCESS CONTROL STANDARDS FOR TAG NUMBERING REQUIREMENTS AND CONVENTION FOR EQUIPMENT NOT SHOWN WITH TAG NUMBERS AND PROPOSE TAG NUMBERS FOR ENGINEER APPROVAL.

DESIGN CRITERIA		
PUMPS	INITAL PHASE	BUILDOUT
QUANTITY	4 (3 DUTY, 1 STANDBY)	5 (4 DUTY, 1 STANDBY)
CAPACITY, EA	3,820 GPM	3,750 GPM
HORSEPOWER, EA	250 HP	250 HP
HYDROPNEUMATIC TANK		
CAPACITY	2,000 GAL	2,000 GAL
ALTITUDE VALVE		
QUANTITY / SIZE	16 IN	16 IN
TANKS		
QUANTITY	2	2
CAPACITY, EACH	6 MG	6 MG
DIAMETER	170 FT	170 FT
FINISH FLOOR ELEVATION	102.0 FT	102.0 FT
LOW WATER LEVEL	104.0 FT	104.0 FT
HIGH WATER LEVEL	138.75 FT	138.75 FT
OVERFLOW ELEVATION	140.08 FT	140.08 FT
SODIUM HYPOCHLORITE SYSTEM		
TANK QUANTITY	1	1
TANK CAPACITY	550 GAL	550 GAL
PUMP QUANTITY	2	2
PUMP CAPACITY, EA	5.0 GPH	5.0 GPH



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CONSTRUCTION





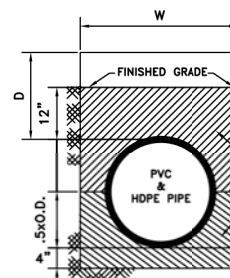
NOTES:

- ASPHALT CONCRETE PATCH, 6 INCHES THICK OR THAT OF EXISTING, WHICHEVER IS MORE.
- AGGREGATE BASE OR AGGREGATE BASE AND SUBBASE SECTION PER APPROVED PLAN. 95% RELATIVE COMPACTION.
- ASPHALT CONCRETE PAVEMENT SECTION PER APPROVED PLANS.
- 24 INCHES OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPEC 19-3.062
- SIX INCHES OF SUBGRADE, PROCESSED TO 95% RELATIVE COMPACTION.
- NATIVE BACKFILL MATERIAL, 90% RELATIVE COMPACTION.
- EXISTING STREET PAVEMENT.
- TACK COAT ON ALL VERTICAL PAVEMENT SAWCUTS.
- TYPICAL EACH SIDE OF TRENCH IN EXISTING STREET.
- FOR PIPE EMBEDMENT SEE TB-2 FOR PLASTIC STORM DRAIN, W-1 FOR WATER PIPE, SS-1 FOR SANITARY SEWER PIPE, OF THESE CONSTRUCTION STANDARDS.
- PIPE
- FOR REINFORCED CONCRETE PIPE EMBEDMENT: PLACE 1/2 INCH CRUSHED ROCK UP TO SPRING LINE WITH MINIMUM OF FOUR (4) INCHES OF 1/2 INCH CRUSHED ROCK BEDDING. MAINTAIN MINIMUM OF SIX (6) INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
- ALTERNATE TRENCH BOTTOM. THE DIAMETER OF THE ALTERNATE ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

NOTE: IN CONDITION #1, TRENCH CUT FEE MAY APPLY PER CITY ORDINANCE.

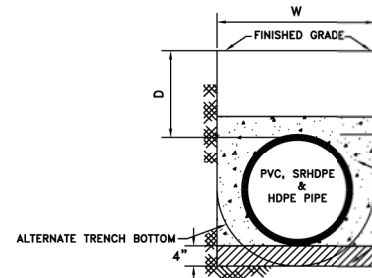
RHON HERNDON
RHON HERNDON
PUBLIC WORKS DIRECTOR

CITY OF ROSEVILLE DEPARTMENT OF PUBLIC WORKS	
UTILITY TRENCH PAVING BACKFILL AND EMBEDMENT	
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	TB-1



DETAIL A
SRHDPE, PVC & HDPE
PIPE ONLY (NONRIGID)

IMPORTED MATERIAL: LESS THAN 10% PASSING No. 8 SIEVE; 100% PASSING 1/2" SIEVE FOR ALL PIPE (3/8" CRUSHED ROCK) OR 85 TO 90% PASSING 1/2" SIEVE AND 100% PASSING 3/4" SIEVE. (1/2" CRUSHED ROCK)



DETAIL B
SRHDPE, PVC & HDPE
PIPE ONLY (NONRIGID)

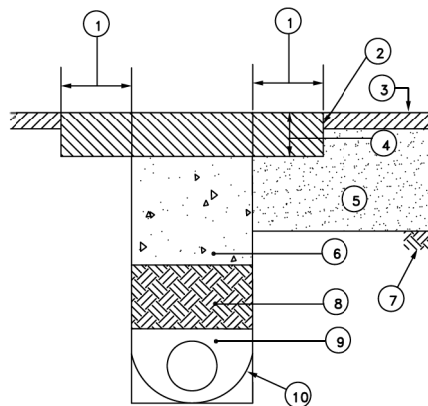
SLURRY BACKFILL PER CAL TRANS SEC. 19-3.062
IMPORTED MATERIAL: LESS THAN 10% PASSING No. 8 SIEVE; 100% PASSING 1/2" SIEVE FOR ALL PIPE (3/8" CRUSHED ROCK) OR 85 TO 90% PASSING 1/2" SIEVE AND 100% PASSING 3/4" SIEVE. (1/2" CRUSHED ROCK)

NOTES:

- TRENCH WIDTH:
PIPE SIZE 30" AND UNDER OVER 30"
TRENCH WIDTH = W
O.D. + 16"
O.D. x 1.25 + 12"
- HIGH DENSITY POLYETHYLENE (HDPE) STORM DRAIN PIPE SHALL BE TYPE "S" AS DESCRIBED IN SECTION 64 OF THE CALTRANS STANDARD SPECIFICATIONS. PIPE INSTALLATION AND PIPE CONFIGURATION SHALL BE AS SHOWN ON THIS DRAWING AND AS DESCRIBED IN THESE GENERAL NOTES. JOINTS SHALL BE SEALED WITH A RUBBER GASKET. GASKETS SHALL MEET THE REQUIREMENT OF ASTM F-477.
- FILL HEIGHTS "D" FOR NONRIGID (PVS & HDPE) DRAIN PIPE SHALL BE A MINIMUM OF 36 INCH AND A MAXIMUM OF 15 FEET, AND (SRHDPE) SHALL HAVE A MINIMUM OF ONE FOOT (IN ADDITION TO THE ROADWAY STRUCTURAL SECTION) AND A MAXIMUM OF 30 FEET FROM THE TOP OF PIPE FINISH GRADE. (SEE DETAILS A & B FOR TRENCH BACKFILL REQUIREMENTS. CONTRACTOR MAY USE EITHER DETAIL A OR B.)
- PIPE MATERIAL CHANGES BETWEEN STRUCTURES ARE PROHIBITED. OUTFALL/INLET RUNS AND STUBS INTO FUTURE SITES SHALL BE RCP. (SEE SECTION 101-6 D.I.C. AND 101-8 D.4. FOR CONCRETE PIPE APPLICATION.)
- REFER TO TB-1 FOR TREATMENT OF THE TOP PORTION OF THE TRENCH WITHIN THE CITY STREET.
- THE DIAMETER OF THE ALTERNATE, ROUNDED TRENCH BOTTOM SHALL BE EQUAL TO THE WIDTH OF THE TRENCH.

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RHON HERNDON
PUBLIC WORKS DIRECTOR

CITY OF ROSEVILLE DEPARTMENT OF PUBLIC WORKS	
HDPE, SRHDPE PVC STORM DRAIN PIPE ONLY (NONRIGID) BEDDING AND BACKFILL	
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	TB-2



NOTES:

- 18 INCH KEY OUTSIDE TRENCH LINE
- COAT ALL EXISTING VERTICAL FACES WITH ASPHALTIC EMULSION (TACK) PRIOR TO PAVING
- EXISTING AC PAVING
- PATCH SHALL BE THICKNESS OF EXISTING SECTION PLUS 2 1/2 INCHES. PER CITY TRENCH CUT ORDINANCE (6 INCH MINIMUM THICKNESS).
- AGGREGATE BASE/SUBBASE: RECOMPACT DISTURBED SURFACE AREAS TO 95%.
- TWO FEET OF TWO SACK CONCRETE SLURRY PER CALTRANS STANDARD SPECIFICATION 19-3.062
- NATIVE SOIL
- NATIVE SOIL TO BE PROCESSED TO 90% RELATIVE COMPACTION.
- FOR PIPE EMBEDMENT, SEE THE FOLLOWING CONDITIONS:
a. TB-2 FOR PLASTIC STORM DRAIN PIPE
b. W-1 FOR WATER PIPE
c. SS-1 FOR WASTE WATER PIPE
d. FOR REINFORCED CONCRETE PIPE, PLACE 1/2 CRUSHED ROCK UP TO SPRING LINE WITH A MINIMUM OF FOUR INCHES OF BEDDING BELOW PIPE. MAINTAIN A MINIMUM OF SIX INCHES OF CLEARANCE BETWEEN THE PIPE AND THE TRENCH WALL.
- ALTERNATE TRENCH BOTTOM. THE DIAMETER OF THE ALTERNATE, ROUNDED TRENCH BOTTOM SHALL EQUAL THE WIDTH OF THE TRENCH.

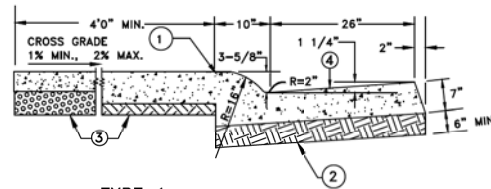
NOTE: THIS DETAIL APPLIES TO UTILITY TRENCHES IN WHICH TRENCH CUT FEES WERE NOT PAID BY THE APPLICANT, OR AS SPECIFIED BY THE ENGINEER.

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RHON HERNDON
PUBLIC WORKS DIRECTOR

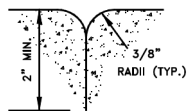
CITY OF ROSEVILLE DEPARTMENT OF PUBLIC WORKS	
DEEP CUT "T" PATCH RECONSTRUCTION	
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	TB-3

FOR PROPOSAL PURPOSES ONLY,
NOT FOR CONSTRUCTION

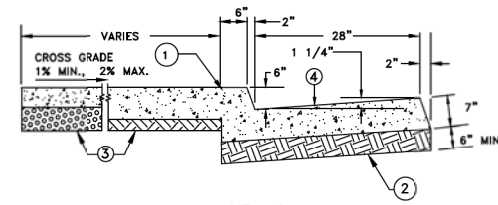




TYPE 1
ROLLED CURB & GUTTER



TOOL JOINT
(TYP.)
SEE SECTION 71-4.C.3.
(CONSTRUCTION STANDARDS)



TYPE 2
VERTICAL CURB & GUTTER
(OPTION 1)

LEGEND:

1. SCORE MARK, 1/8" DEEP
2. SUBGRADE PROCESSED TO 95% RELATIVE COMPACTION.
3. ALL SIDEWALK HAS OPTION OF 4" CONCRETE ON 4" AGGREGATE BASE, IN LIEU OF 6" CONCRETE ON NATIVE.
4. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX, OR BE LESS THAN 4%.

NOTES:

- A. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
- B. SEE SECTION 71-4 C OF THE CITY CONSTRUCTION STANDARDS FOR FINISH AND JOINTS.
- C. ALL ADJOINING SIDEWALK, CURB AND GUTTER SHALL BE POURED MONOLITHIC.

MARC STOUT
CITY ENGINEER

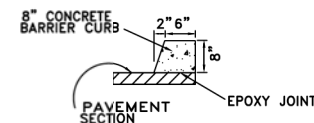


DEVELOPMENT SERVICES
DEPARTMENT

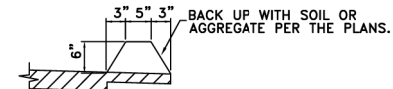
TYPE 1 AND 2 CURB AND
GUTTER WITH SIDEWALK

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

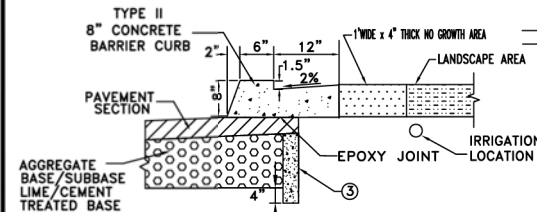
ST-17



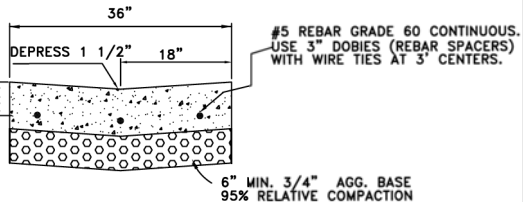
TYPE 1 BARRIER CURB
(ADJACENT TO UNIRRIGATED AREAS)



STATE "TYPE A" HIGH DIKE
(ASPHALT CONCRETE DIKE)



TYPE 2 BARRIER CURB
(ADJACENT TO IRRIGATED AREAS)



36 INCH VALLEY GUTTER
(ALLEYS ONLY)

RHON HERNDON
PUBLIC WORKS DIRECTOR



DEPARTMENT OF
PUBLIC WORKS

BARRIER CURBS
AND
VALLEY GUTTERS

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-18

NOTES:

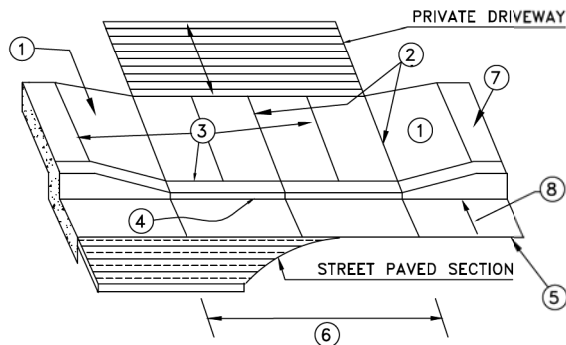
1. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS UNLESS OTHERWISE NOTED.
2. TOOL JOINTS" SEE DETAIL ST-17.
3. 4" THICK CONCRETE SLURRY CUTOFF WALL REQUIRED ADJACENT TO TURFED MEDIANS, AS ALLOWED PER THE CITY'S WATER EFFICIENT LANDSCAPE ORDINANCE.

LEGEND:

1. THE MAX. GRADE IS 5% IF LONGITUDINAL STREET GRADE ALLOWS. THE MAX. TRANSITION TO OBTAIN 5% IS 15 FEET. OTHERWISE, A MAX. GRADE OF 8.33% SHALL BE OBTAINED BETWEEN 15 AND 25 FEET. 25 FEET IS THE MAX. TRANSITION REQUIRED/ALLOWED, REGARDLESS OF LONGITUDINAL STREET GRADE.
2. "TOOL JOINT" SEE DETAIL ST-17.
3. SCORE MARKS EVERY 4 FEET FOR 4 FOOT SIDEWALK AND 5 FEET FOR 5 FOOT SIDEWALK ETC.
4. 1 INCH HIGH LIP AT 45 DEGREE BATTER.
5. "TYPE 2"(ST-17) CURB AND GUTTER.
6. DRIVEWAY WIDTH PER THE APPROVED PLAN. (MIN. 25', MAX 40' FOR COMMERCIAL 32' FOR RESIDENTIAL)
7. ADJACENT SIDEWALK.
8. GUTTER PAN CROSS SLOPE NOT TO EXCEED 5% MAX.

NOTES:

- A. SIDEWALK CROSS GRADE THROUGH THE ENTIRE DRIVEWAY SHALL BE 1% MINIMUM, 2% MAXIMUM.
- B. FOR COMMERCIAL DRIVEWAY: SIDEWALK, APRON AND GUTTER PAN SHALL BE 8" THICK WITH NO. 4, GRADE 60 REBAR ON 18" CENTERS EACH WAY. USE 3" DOBIES (REBAR SPACERS) AT 3' INTERVALS. FOR RESIDENTIAL: WALK, APRON AND GUTTER PAN SHALL BE 7" THICK NONREINFORCED. FOR COMMERCIAL AND RESIDENTIAL SIDEWALK, APRON AND GUTTER PAN SHALL BE PLACED MONOLITHICALLY. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
- C. BASE FOR CONCRETE SHALL BE NATIVE SOIL OR CLASS 2, 3/4 INCH AGGREGATE BASE, EITHER PROCESSED 6 INCHES THICK TO 95% RELATIVE COMPACTION.
- D. SEE SECTION 71-4 C.6. OF THE CONSTRUCTION STANDARDS FOR AC PATCH ADJACENT TO GUTTER LIP.
- E. FROM 8 TO 20 FEET BACK OF SIDEWALK, RAISE PRIVATE PAVING/LANDSCAPING TO A MINIMUM HEIGHT OF THE HIGHEST TOP OF CURB ELEVATION AT THE DRIVEWAY.



MARC STOUT
CITY ENGINEER



DEVELOPMENT SERVICES
DEPARTMENT

"TYPE S"
DRIVEWAY APRON

SCALE: NONE
REVISED: JANUARY 1, 2016
DRAWN BY: J HENDRIX
APPROVED BY: MARC STOUT

ST-20

FOR PROPOSAL
PURPOSES ONLY,
NOT FOR
CONSTRUCTION



DESIGNED: M. FISHER
DRAWN: J. MARTIN
CHECKED: S. KADER
APPROVED: M. FISHER

CITY OF
ROSEVILLE
CALIFORNIA

WATERWORKS
ENGINEERS
2200 Douglas Blvd., Suite 105
Roseville, CA 95661 • 916-780-2888



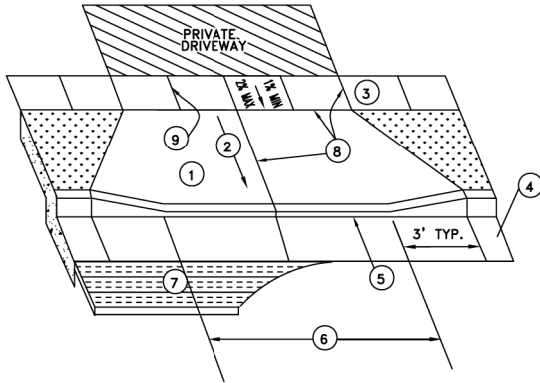
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

GENERAL
STANDARD DETAILS 2

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WG00-G-021
SHEET NUMBER 17

NOTES:

1. FOR COMMERCIAL DRIVEWAY: SIDEWALK, APRON AND GUTTER PAN SHALL BE 8 INCHES THICK WITH NO. 4, GRADE 60 REBAR ON 18 INCH CENTERS EACH WAY. USE 3 INCH DOBIES (REBAR SPACERS) AT 3 FOOT INTERVALS. FOR RESIDENTIAL: WALK, APRON AND GUTTER PAN SHALL BE 7 INCHES THICK, NONREINFORCED. FOR COMMERCIAL AND RESIDENTIAL, SIDEWALK, APRON AND GUTTER PAN SHALL BE PLACED MONOLITHICALLY. ALL CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.
2. STRAIGHT GRADE FROM SIDEWALK TO LIP AT FLOWLINE.
3. ADJACENT SIDEWALK: IF EXISTING SIDEWALK EXCEEDS 2% CROSS GRADE, REPLACE 5 FEET ADDITIONAL EXISTING AND TRANSITION TO ACCOMMODATE 2% MAXIMUM CROSS GRADE IN SIDEWALK WITHIN DRIVEWAY.
4. "TYPE 2"(ST-17) CURB AND GUTTER: IF EXISTING IS NOT "TYPE 2" SECTION, MATCH THE EXISTING GUTTER PAN UNLESS OTHERWISE REQUIRED PER THE APPROVED PLAN.
5. 1 INCH HIGH LIP AT 45 DEGREE BATTER.
6. DRIVEWAY WIDTH PER THE APPROVED PLAN. MINIMUM 25' MAXIMUM OF 40' FOR COMMERCIAL, 32' FOR RESIDENTIAL.
7. SEE SECTION 71-4 C.6. OF THE CONSTRUCTION STANDARDS FOR AC PATCH ADJACENT TO GUTTER LIP.
8. "TOOL JOINT" SEE DETAIL ST-17.
9. SCORE MARKS EVERY FOUR FEET FOR FOUR FOOT SIDEWALK AND FIVE FEET FOR FIVE FOOT SIDEWALK, ETC.
10. SUBGRADE BASE FOR CONCRETE WITHIN CITY RIGHT-OF-WAY SHALL BE 6 INCHES OF NATIVE SOIL, OR CLASS II, 3/4 INCH AGGREGATE BASE, BOTH AT 95% RELATIVE COMPACTION.



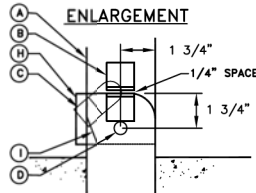
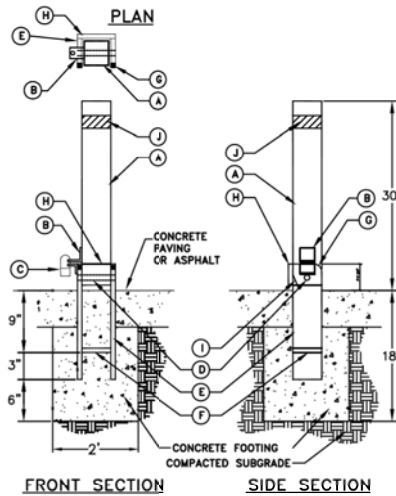
RHON HERNDON
PUBLIC WORKS DIRECTOR

ROSEVILLE
CALIFORNIA
DEPARTMENT OF
PUBLIC WORKS

"TYPE D"
DRIVEWAY APRON

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-21



LEGEND

- A. 3 1/2" O.D. 1/4" WALL STEEL TUBE WITH CAP WELDED ON TOP, 3/4" HOLES FOR SWIVEL ROD. EASE ALL EDGES OF STEEL TUBE.
- B. 1 1/2" X 1 1/2" ANGLE IRON (2) WELDED TO TUBE AND BASE. PLACE 1/2" HOLE DRILLED 1/4" FROM END OF ANGLE IRON. ANGLE IRON ON BASE SIZE AS NECESSARY TO EQUAL LENGTH OF ANGLE IRON ON TUBE.
- C. PADLOCK, TO BE PROVIDED BY CITY.
- D. 5/8" DIA. STEEL SWIVEL ROD, WELD SWIVEL ROD TO SIDE PLATES.
- E. 3/8" X 16" X 4" STEEL BASE PLATE WITH 1 1/2" RADIUS CORNERS. EASE ALL EDGES.
- F. 3/8" STEEL BRACE. FILET WELD BOTH SIDES TO BASE PLATES.
- G. 1 1/2" RADIUS CORNERS, TYP.
- H. 4" X 4" X 3/8" STEEL BACK PLATE WELDED TO BASE PLATE.
- I. FISH MOUTH GRIND AT BOTTOM BACK CORNER OF TUBE.
- J. PLACE 2" WHITE REFLECTIVE TAPE.

NOTES

1. ALL TUBING SHALL BE BLACK STEEL PIPE.
2. ALL JOINTS SHALL BE WELDED IN ACCORDANCE WITH CA STATE STANDARD SPECIFICATIONS FOR WELDING STRUCTURAL STEEL AND GROUND SMOOTH.
3. ALL PARTS (EXCEPT PADLOCK) SHALL BE PAINTED WITH TWO COATS ZINC CHROMATE PRIMER AND TWO COATS EXTERIOR ENAMEL. COLOR: YELLOW.
4. BOLLARD SHALL BE INSTALLED SUCH THAT IT LAYS FLAT WHEN FOLDED.
5. CONCRETE SHALL BE "MINOR CONCRETE" AS DEFINED IN SECTION 71-5B OF THESE STANDARDS.

RHON HERNDON
PUBLIC WORKS DIRECTOR

ROSEVILLE
CALIFORNIA
DEPARTMENT OF
PUBLIC WORKS

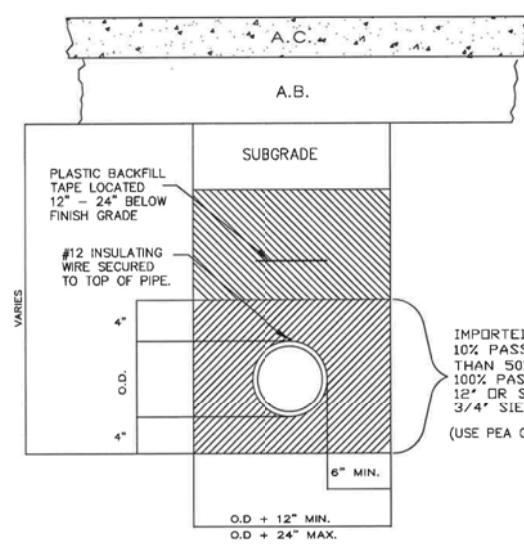
BOLLARD

SCALE: NONE
REVISED: JANUARY 1, 2013
DRAWN BY: J MCKINNEY
APPROVED BY: RHON HERNDON

ST-38

FOR PROPOSAL
PURPOSES ONLY,
NOT FOR
CONSTRUCTION





- TRENCH BACKFILL REQUIREMENTS:
1. PROPOSED STREETS - REFER TO DETAIL TB-1 OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.
 2. EXISTING STREETS - REFER TO DETAILS TB-1 AND TB-3 OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.

NOTES:

BACKFILL SHALL BE MECHANICALLY CONSOLIDATED OR SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE.

IN ROCKY OR UNYIELDING SOIL, THE TRENCH SHALL BE EXCAVATED A MINIMUM OF 12" BELOW THE PIPE AND THE TRENCH WIDTH SHALL BE INCREASED BY 12".

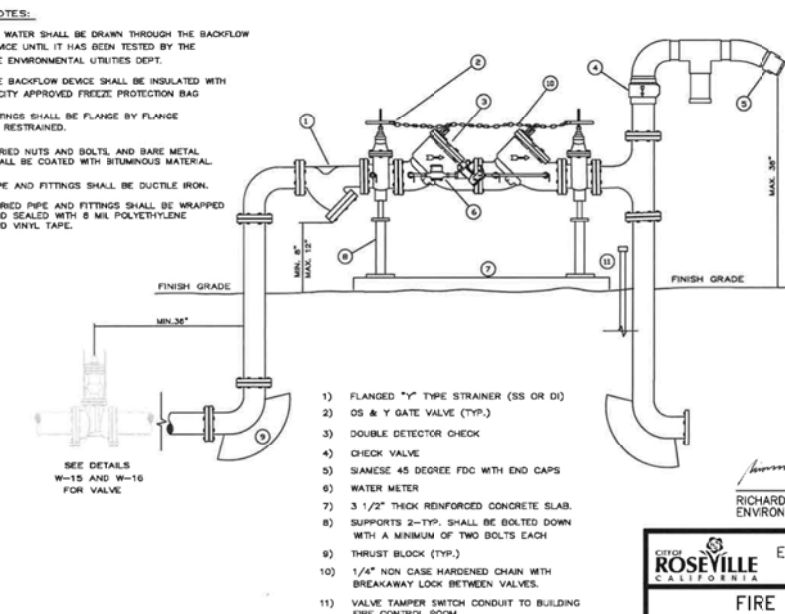
ONE 12" WIDE STRIP OF BACKFILL TAPE SHALL BE USED FOR EVERY 12" PIPE DIAMETER OR FRACTION THERE OF.

CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES
DEPARTMENT

**WATER MAIN
TRENCH AND BACKFILL**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-1



NOTES:

NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG.

FITTINGS SHALL BE FLANGE BY FLANGE OR RESTRAINED.

BURIED NUTS AND BOLTS, AND BARE METAL SHALL BE COATED WITH BITUMINOUS MATERIAL.

PIPE AND FITTINGS SHALL BE DUCTILE IRON.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED AND SEALED WITH 8 MIL POLYETHYLENE AND VINYL TAPE.

- 1) FLANGED "Y" TYPE STRAINER (SS OR DI)
- 2) OS & Y GATE VALVE (TYP.)
- 3) DOUBLE DETECTOR CHECK
- 4) CHECK VALVE
- 5) SIAMENSE 45 DEGREE FDC WITH END CAPS
- 6) WATER METER
- 7) 3 1/2" THICK REINFORCED CONCRETE SLAB.
- 8) SUPPORTS 2-TYP. SHALL BE BOLTED DOWN WITH A MINIMUM OF TWO BOLTS EACH
- 9) THRUST BLOCK (TYP.)
- 10) 1/4" NON CASE HARDENED CHAIN WITH BREAKAWAY LOCK BETWEEN VALVES.
- 11) VALVE TAMPER SWITCH CONDUIT TO BUILDING FIRE CONTROL ROOM

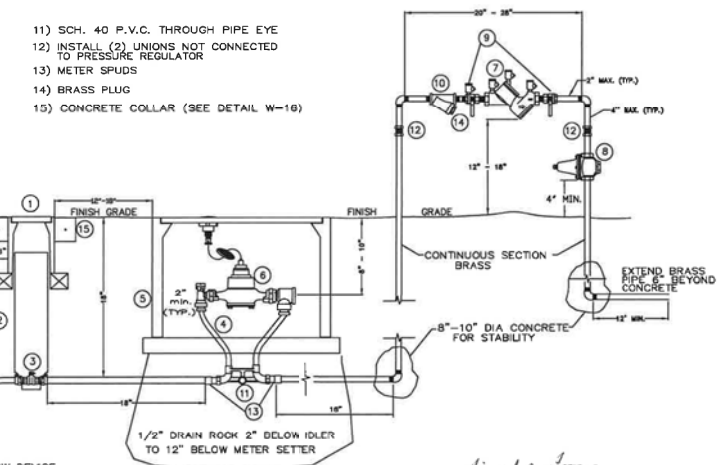
CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES
DEPARTMENT

**FIRE PROTECTION
ASSEMBLY**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-2

- 1) CONCRETE VALVE BOX (G-5 PER DETAIL W-16)
- 2) 6" CONTINUOUS RISER (NOTCHED OVER PIPE AT BASE)
- 3) CURB STOP
- 4) METER RESETER WITH IDLER
- 5) N-16 UTILITY BOX OR APPROVED EQUAL
- 6) METER (PURCHASED THROUGH CITY)
- 7) R.P. TYPE BACKFLOW DEVICE
- 8) PRESSURE REGULATOR IS ALL BRASS (NOT REQUIRED FOR IRRIGATION SERVICE)
- 9) BALL VALVES
- 10) BRASS STRAINER WITH BRASS PLUG



NOTES:

NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

ALL FITTINGS AND PIPING SHALL BE BRASS BEGINNING AT CURB STOP

IF USED FOR IRRIGATION DO NOT INCLUDE PRESSURE REGULATOR.

INSTALL CONCRETE BLOCKING (4" X 4" X 15 1/2" SOLID SLUMP BLOCK) UNDER PERIMETER OF UTILITY BOXES.

WATER METERS SHALL BE PURCHASED THROUGH THE CITY. PURCHASE INCLUDES INSTALLATION.

THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE OR APPROVED EQUAL.

CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES
DEPARTMENT

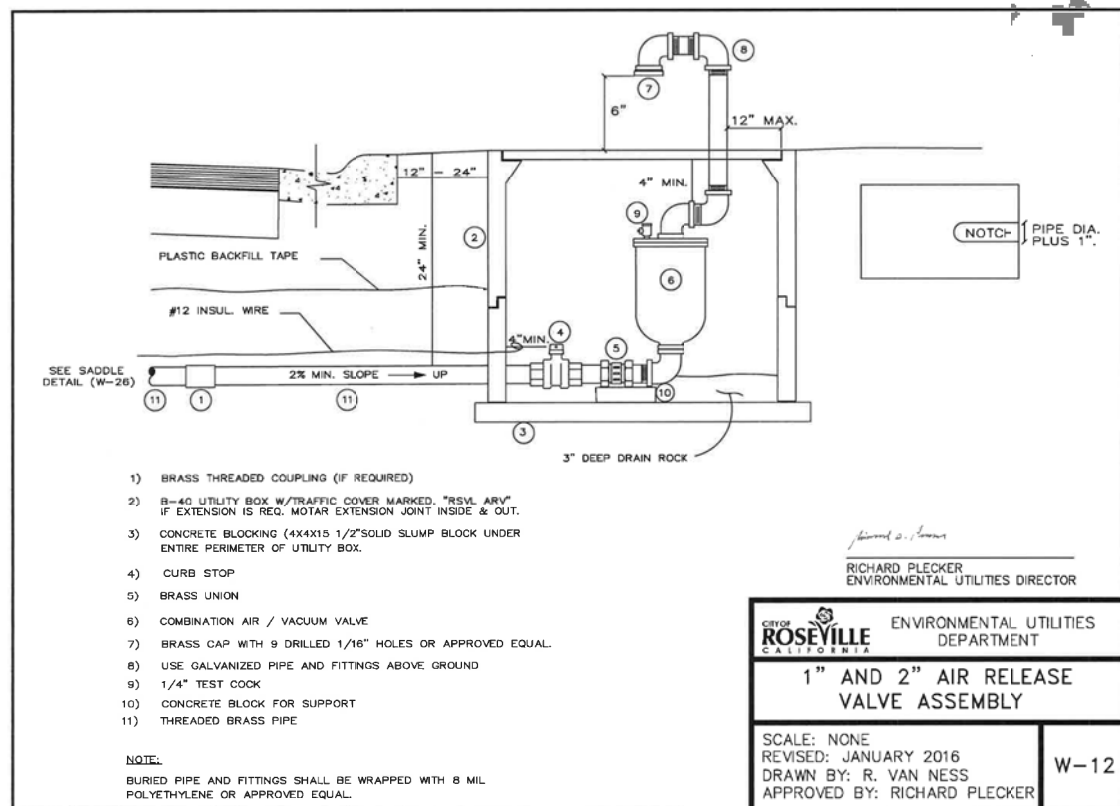
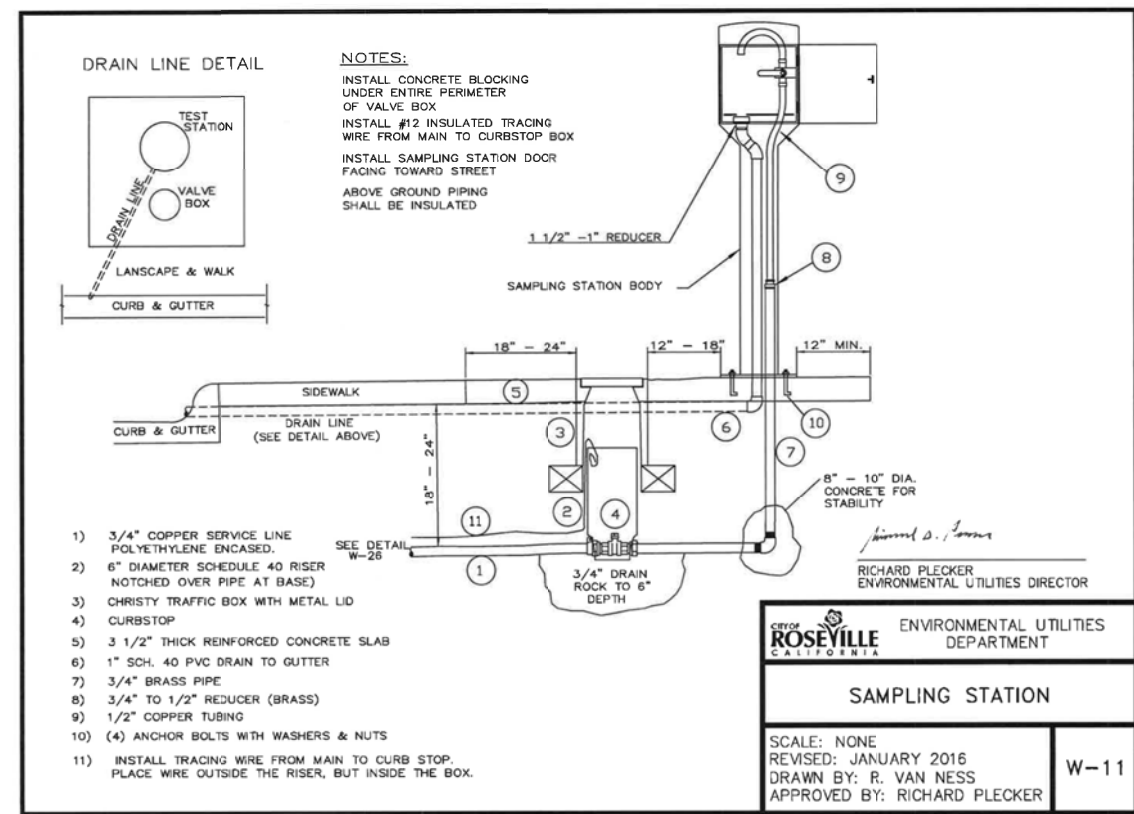
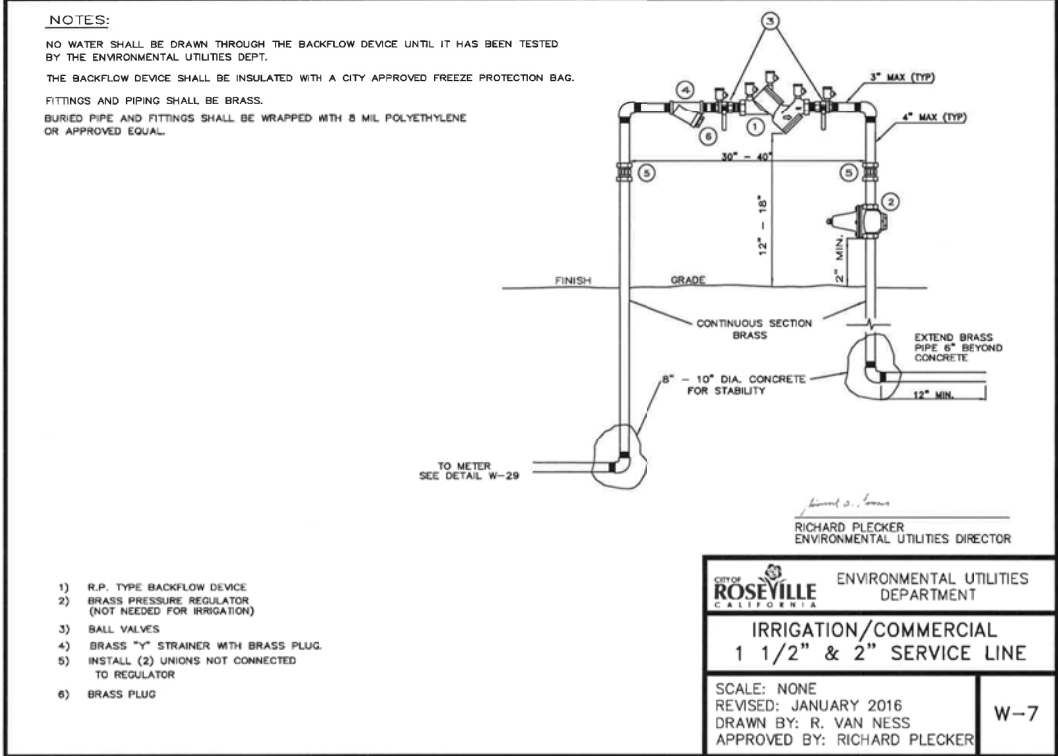
**COMMERCIAL 3/4" & 1"
SERVICE LINE**

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-6

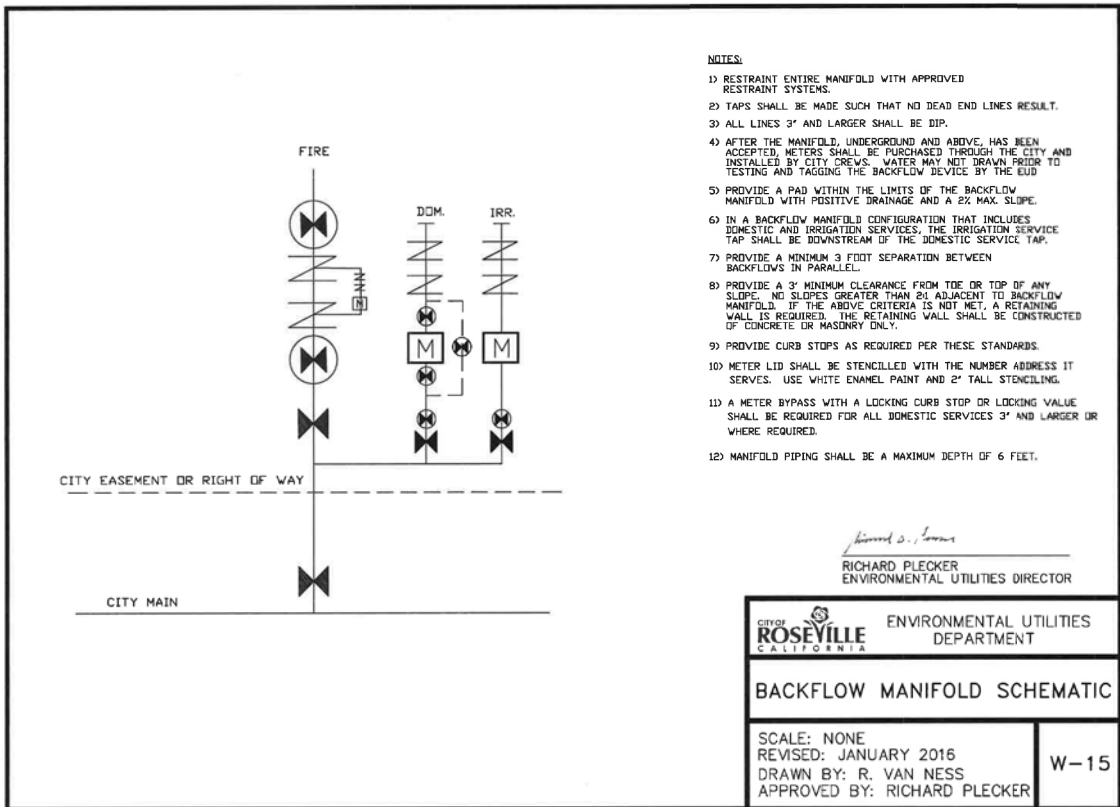
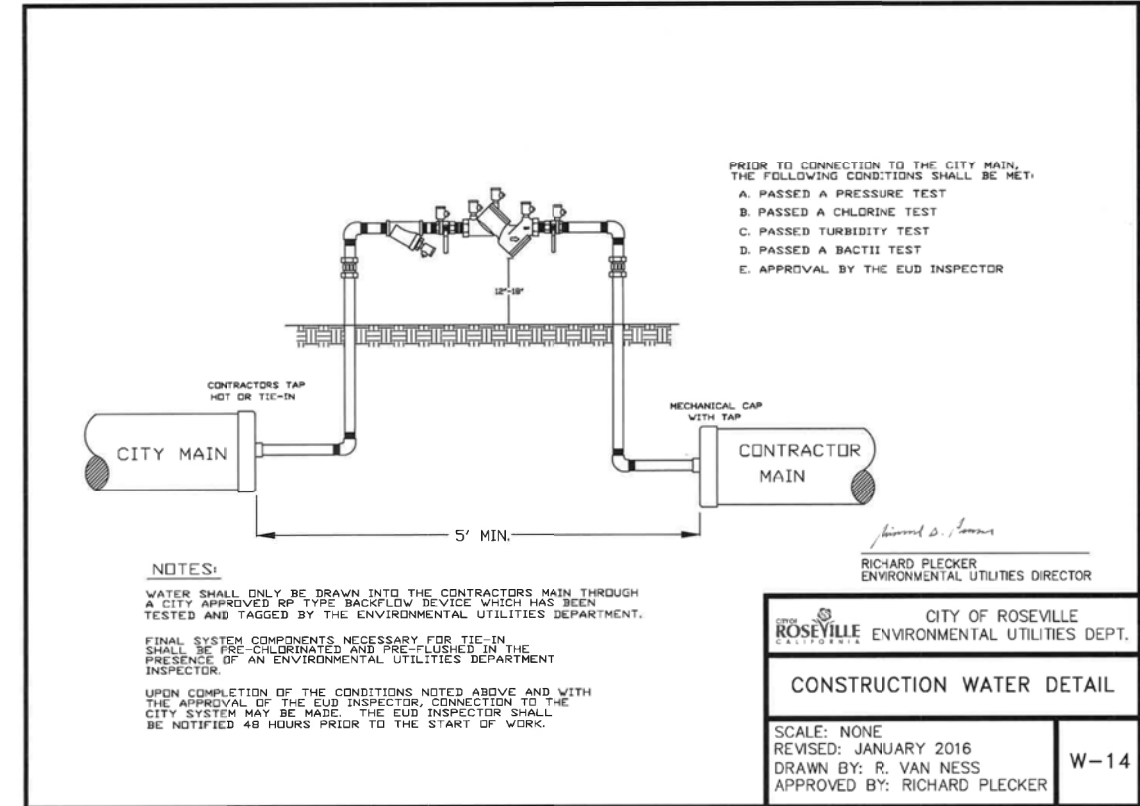
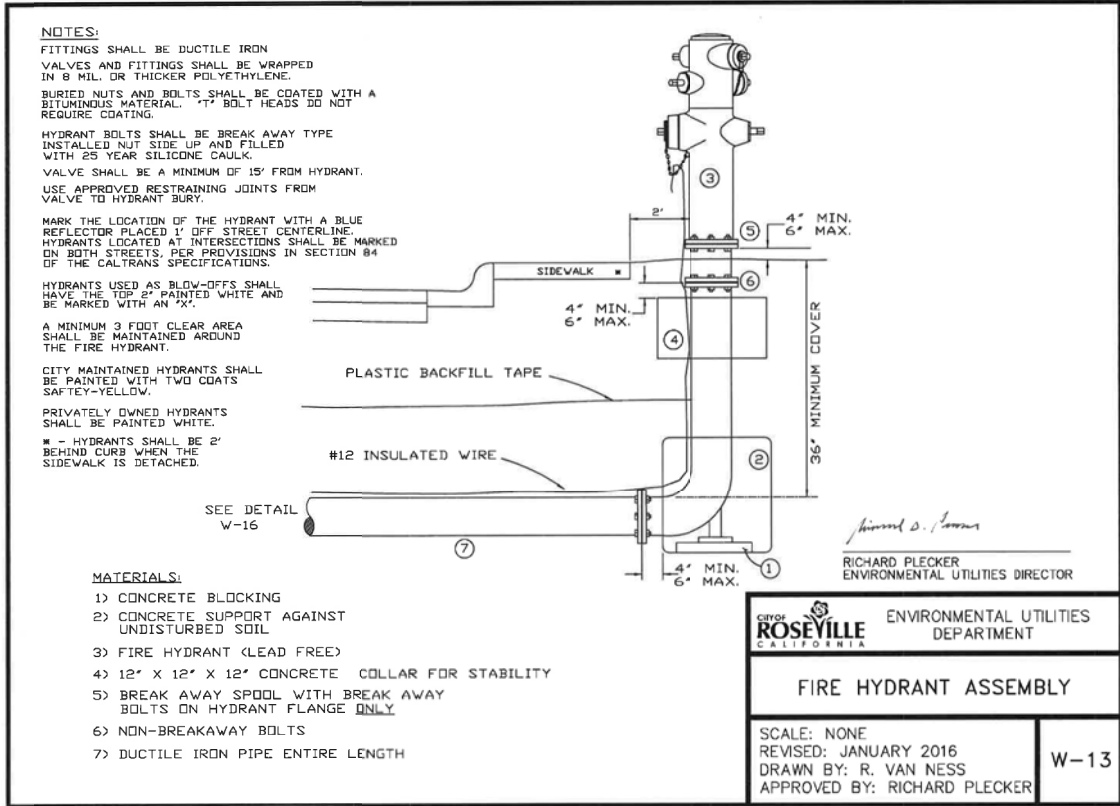
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NOT FOR
CONSTRUCTION





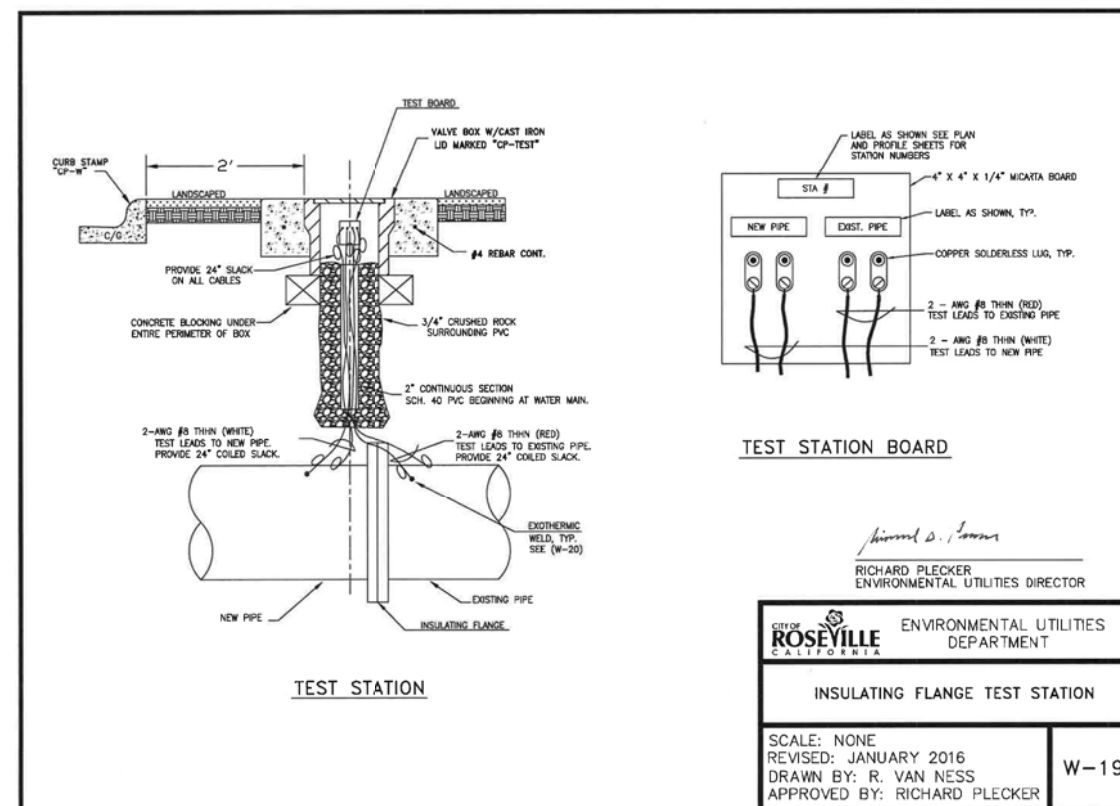
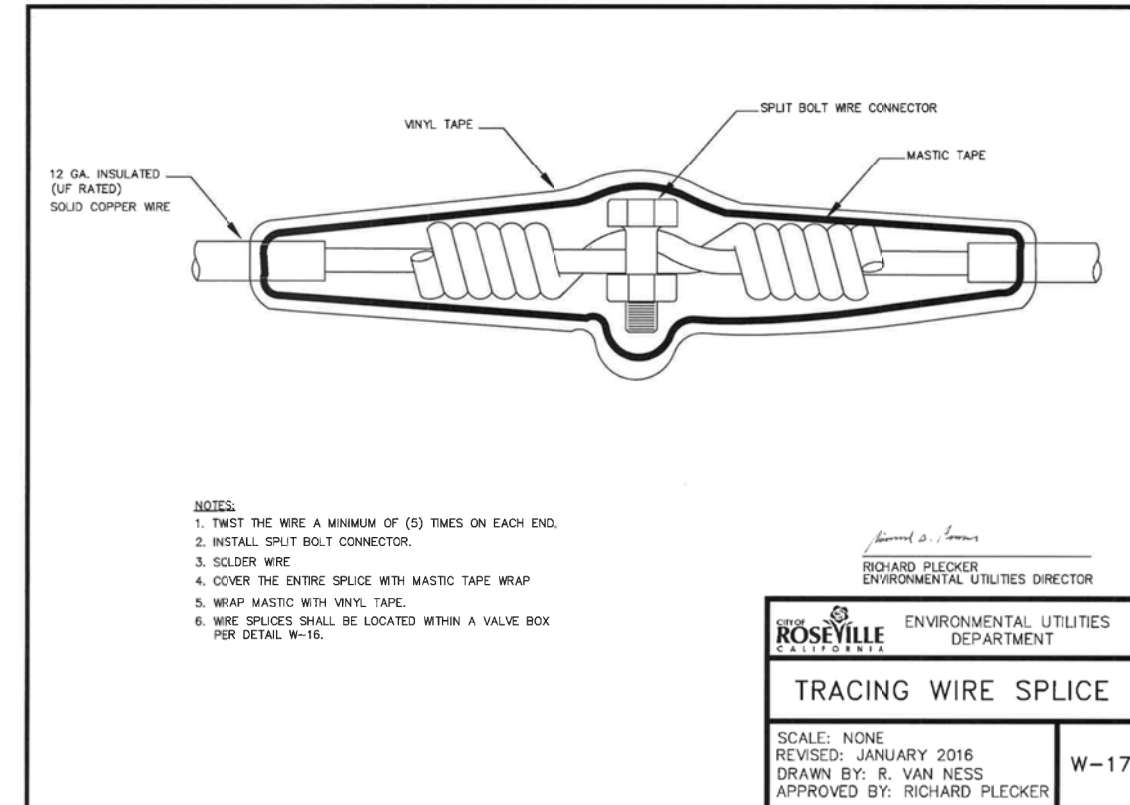
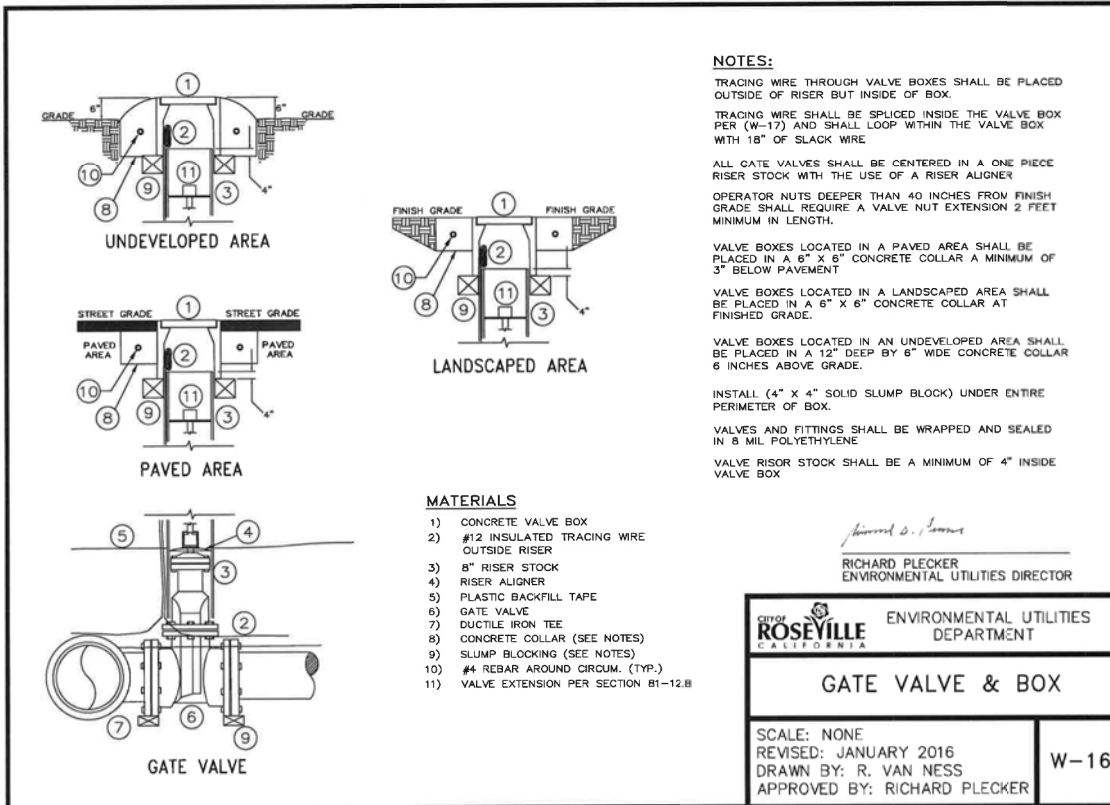
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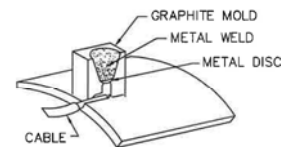
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CONSTRUCTION



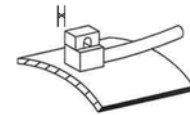
1) FILE TO BARE METAL & CLEAN OVER SURFACE



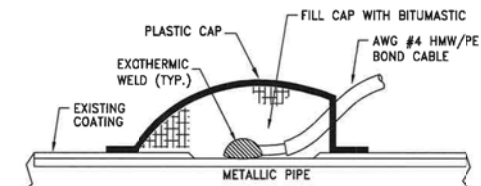
2) STRIP INSULATION FROM WIRE AND ATTACH SLEEVE



3) HOLD MOLD FIRMLY WITH OPENING AWAY FROM OPERATOR, IGNITE WITH FLINT GUN



4) REMOVE SLAG FROM CONNECTION, COVER CONNECTION WITH COMPATIBLE COATING AND CAP OVER ALL EXPOSED METAL



Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

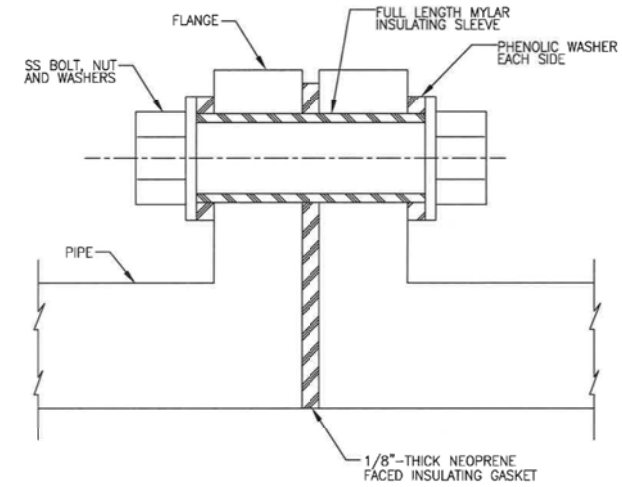
CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES
DEPARTMENT

EXOTHERMIC WELD

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-20

NOTE:
EACH JOINT SHALL HAVE TWO
SEPARATE WELD WIRES.



Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES
DEPARTMENT

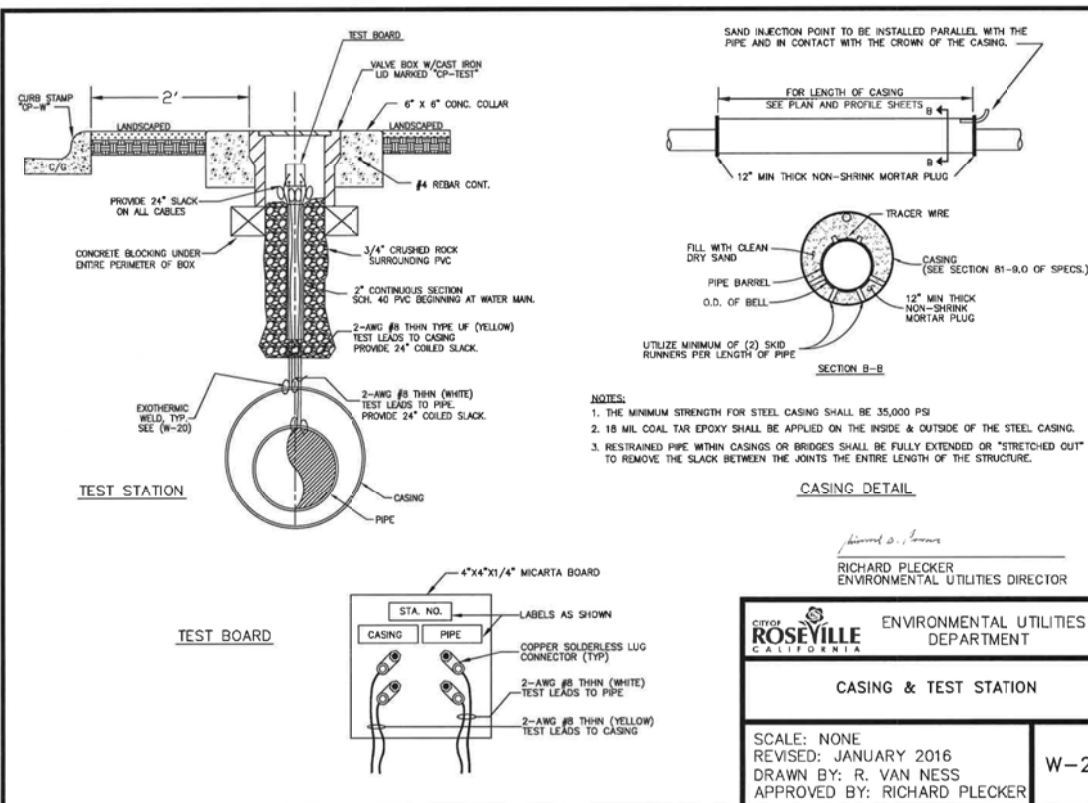
INSULATED FLANGE

SCALE: NONE
REVISED: JANUARY 2015
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-21

NOTES:

1. DIELECTRIC FLANGE KITS SHALL BE MANUFACTURED BY F.H. MALONEY CO., CALPICO OR APPROVED EQUAL
2. PROVIDE AN INSULATING FLANGE TEST STATION FOR THE INSULATED FLANGE.



Richard D. Plecker
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES
DEPARTMENT

CASING & TEST STATION

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-22

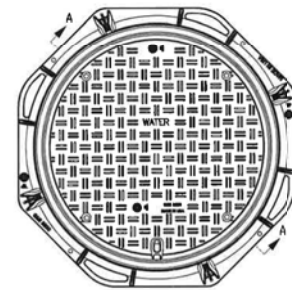
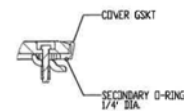
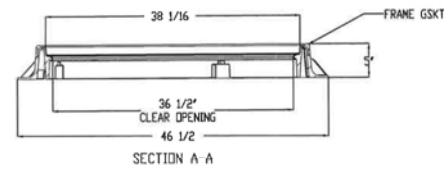
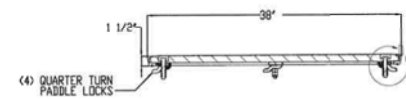
- NOTES:
1. THE MINIMUM STRENGTH FOR STEEL CASING SHALL BE 35,000 PSI
 2. 18 MIL COAL TAR EPOXY SHALL BE APPLIED ON THE INSIDE & OUTSIDE OF THE STEEL CASING.
 3. RESTRAINED PIPE WITHIN CASINGS OR BRIDGES SHALL BE FULLY EXTENDED OR "STRETCHED OUT" TO REMOVE THE SLACK BETWEEN THE JOINTS THE ENTIRE LENGTH OF THE STRUCTURE.

CASING DETAIL

FOR PROPOSAL
PURPOSES ONLY,
NOT FOR
CONSTRUCTION



Cover and Frame Assembly



Richard Plecker
Environmental Utilities Director

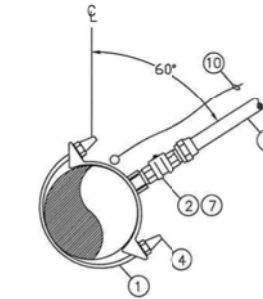
CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES DEPARTMENT

36" MANHOLE RING AND COVER

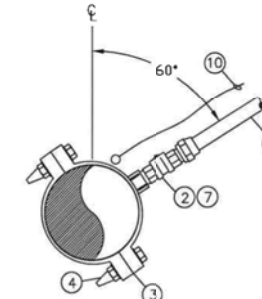
SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-25

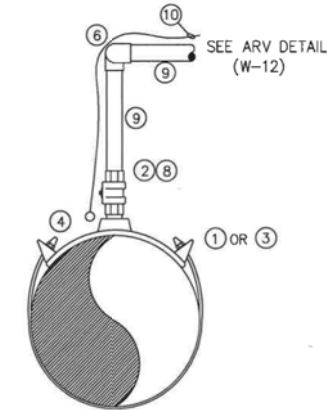
NOTES:
TO CONFORM TO AASHTO M306-05, H-20 AND H-25 EN/24 D4000.



**DOUBLE STRAP
DUCTILE IRON PIPE SADDLE**



PVC PIPE SADDLE



ARV SADDLE

MATERIALS:

- 1) DOUBLE STRAP BRASS SADDLE FOR DUCTILE IRON MAIN
- 2) INSULATING CORPORATION STOP OR NON INSULATED CORPORATION STOP WITH NYLON BUSHING
- 3) BRASS SADDLE FOR PVC MAIN
- 4) ZINC CAPS ON ALL BOLTS (ONLY WITH NON-INSULATED CORPORATION STOP)
- 5) COPPER SERVICE
- 6) SWING JOINT (2 - 90° BRASS FITTINGS)
- 7) CORP STOP W/COMPRESSION COUPLING
- 8) CORP STOP W/THREADED COUPLING
- 9) THREADED BRASS PIPE
- 10) TRACING WIRE (FOR COMMERCIAL SERVICES ONLY)

NOTES:

WRAP CORPORATION STOP AND COPPER SERVICE A MINIMUM OF 3' WITH AN APPROVED DIELECTRIC TAPE AND POLYKEN PRIMER PER MANUFACTURER'S RECOMMENDATIONS.
SADDLES SHALL BE WRAPPED IN 8 MIL POLYETHYLENE AND BACKFILLED WITH SAND.
TRACING WIRE SHALL BE REQUIRED ON ARV, HYDRANT RUNS, BLOW OFFS, SERVICES WITHOUT CONTINUOUS COPPER PIPE, AND OTHER MAJOR APPURTENANCES.

Richard Plecker
Environmental Utilities Director

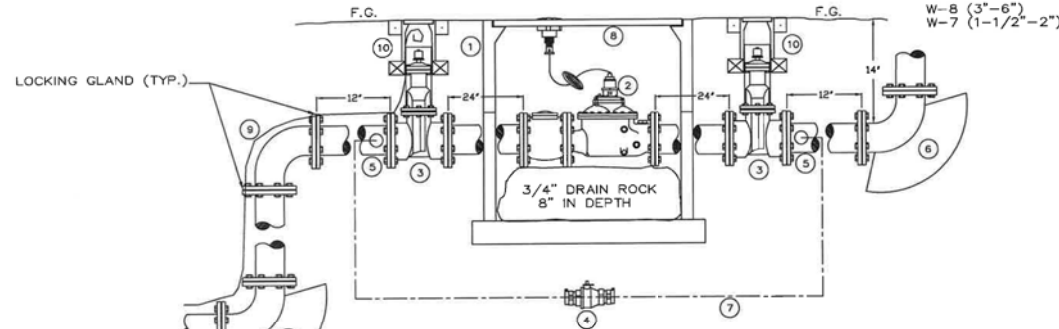
CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES DEPARTMENT

SADDLE DETAIL

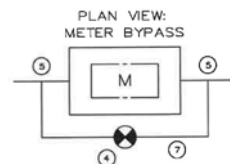
SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-26

NOTES:
PIPE SHALL BE DUCTILE IRON FOR 3" AND LARGER. PIPE SHALL BE BRASS FOR 2" AND SMALLER.
INSTALL CONCRETE BLOCKING (4" X 4" SOLID SLUMP BLOCK) UNDER ENTIRE PERIMETER OF THE UTILITY BOX.
PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL. POLYETHYLENE
USE CITY APPROVED RESTRAINED JOINTS OR FLANGED SPOOLS
WATER METER SHALL BE PURCHASED THROUGH THE CITY. PURCHASE INCLUDES INSTALLATION.
USE TURBO METER FOR IRRIGATION & COMPOUND METER FOR COMMERCIAL SERVICE.



SEE DETAIL
W-15 & W-16 (3"-6")
W-15 & W-26 (1-1/2"-2")



- MATERIALS:**
- 1) REFER TO TABLE 1 FOR UTILITY BOX SIZING, OR B-48 BOX WITH EXTENSION
 - 2) METER WITH STRAINER (PURCHASED THROUGH CITY)
INSTALL IDLER SPOOL DURING INSTALLATION OF METER BOX.
 - 3) RESILIENT SEAT GATE VALVE (3"-6") OR LOCKING CURB STOP FOR 1-1/2" TO 2" SERVICES
 - 4) 2" LOCKING CURB STOP IN G-5 BOX FOR 3"-6" SERVICES OR 3/4" LOCKING CURB STOP FOR 1-1/2"-2" SERVICES. SEE W-16
 - 5) 2" DOUBLE STRAP BRASS SADDLE FOR DUCTILE IRON MAIN WITH 2" MIPT BY COMPRESSION ADAPTER
 - 6) THRUST BLOCKS (TYP.)
 - 7) 3/4" or 2" BYPASS PIPE MATERIAL TO BE SOFT COPPER TYPE K AND FITTINGS TO BE BRASS COMPRESSION TYPE.
 - 8) METAL TRAFFIC LID WELD MARKED "RSL WATER"
 - 9) TRACING WIRE
 - 10) SEE W-16 FOR VALVE BOX AND RISER DETAIL

Richard Plecker
Environmental Utilities Director

CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES DEPARTMENT

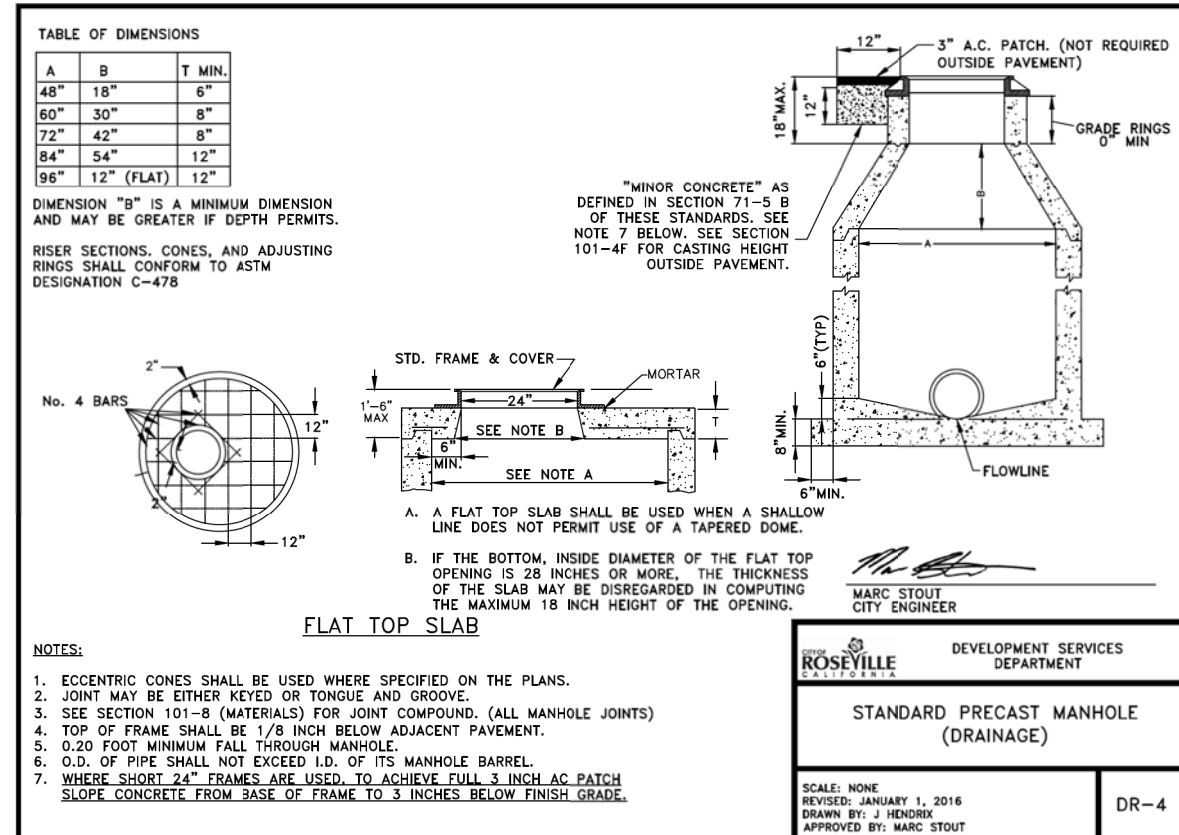
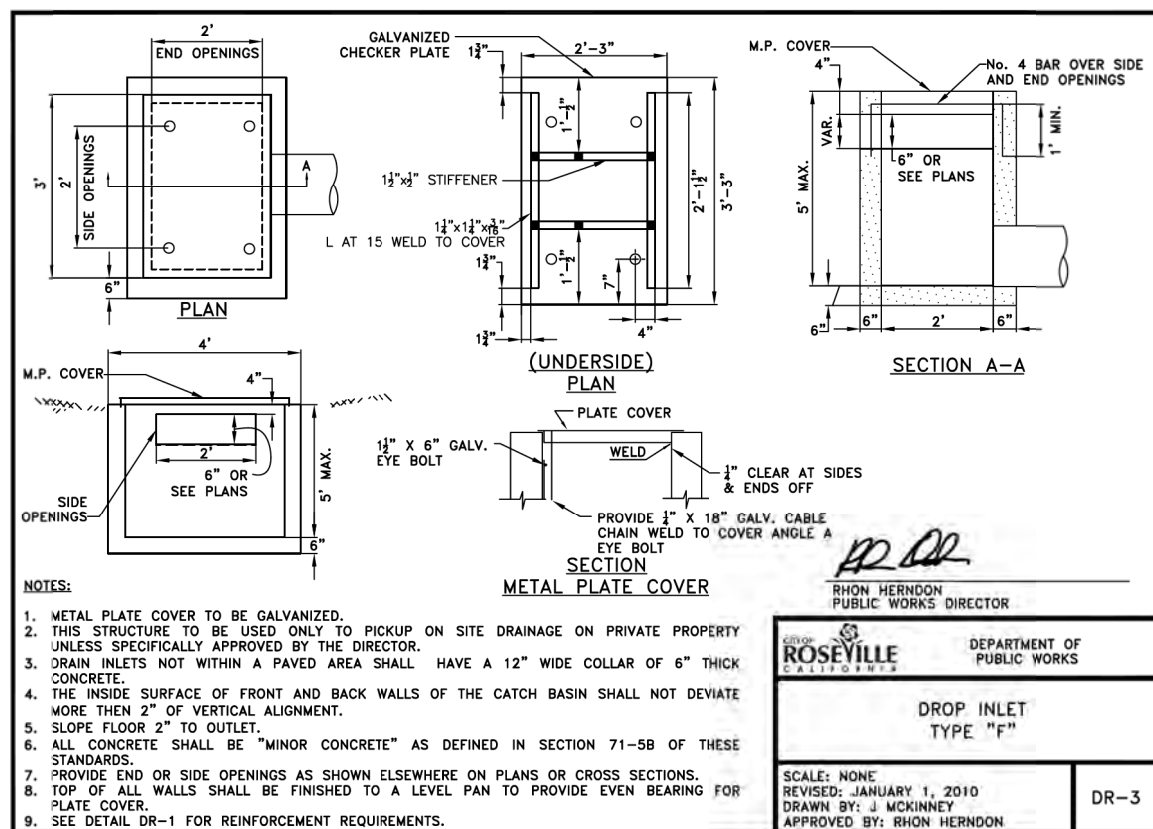
1-1/2", 2", 3", 4", 6" COMPOUND & TURBO METER WITH BYPASS

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

W-29

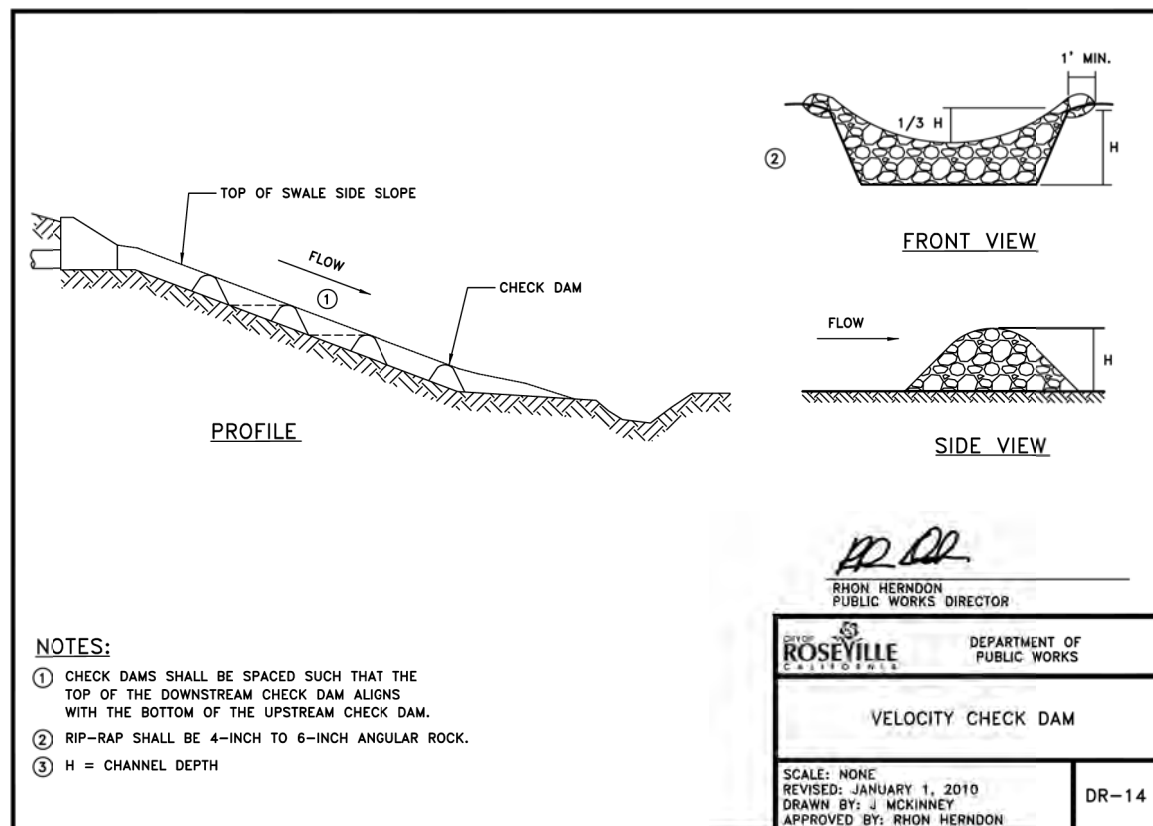
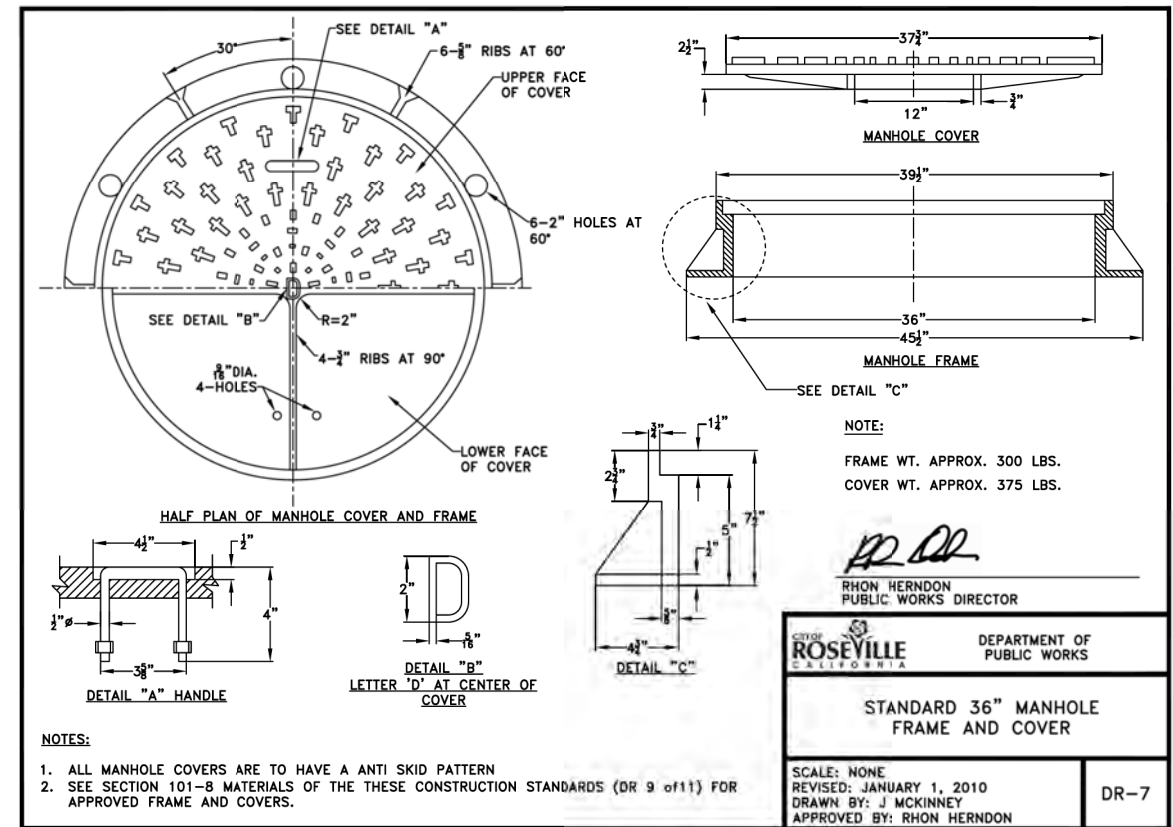
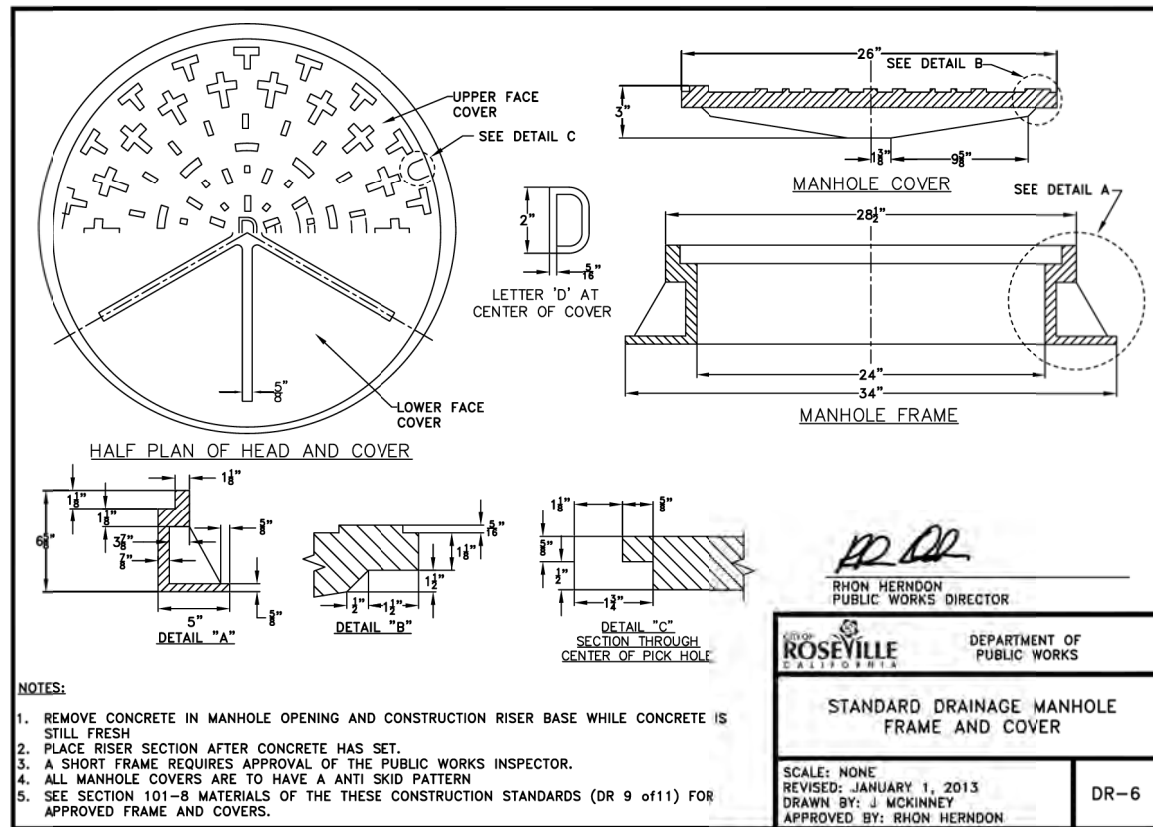
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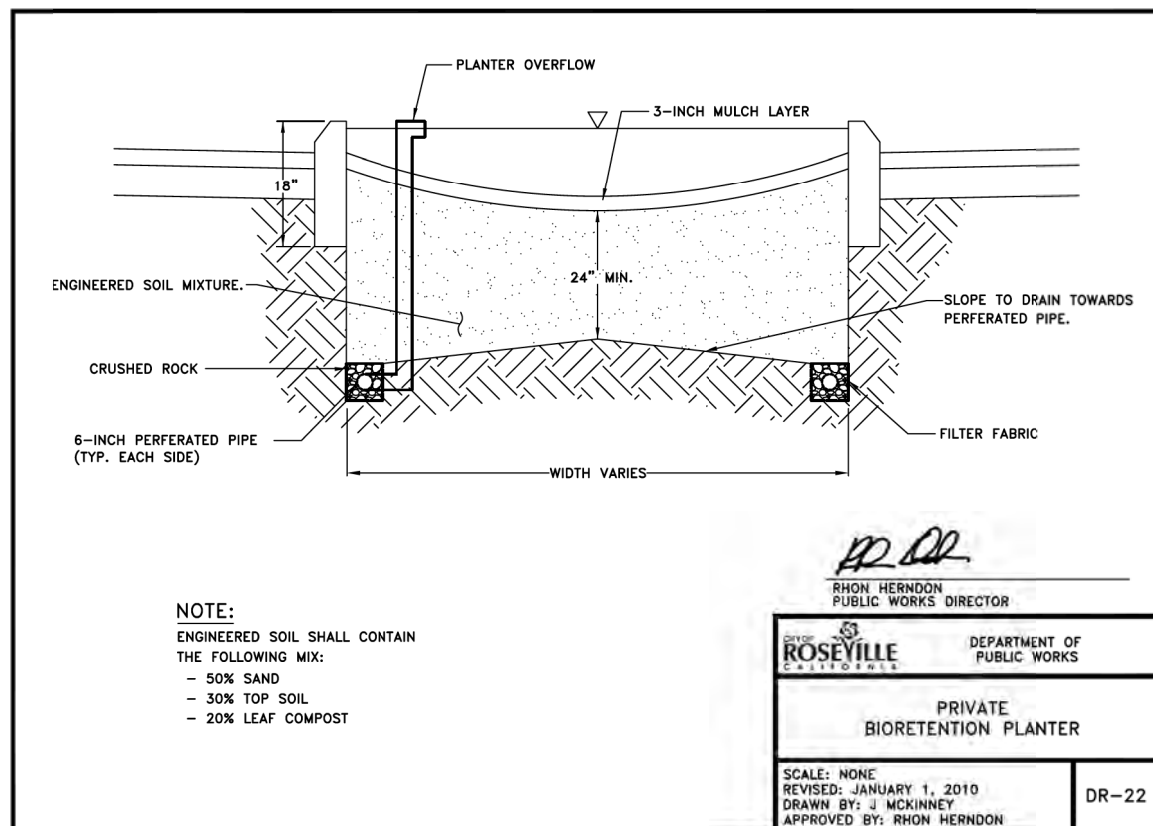
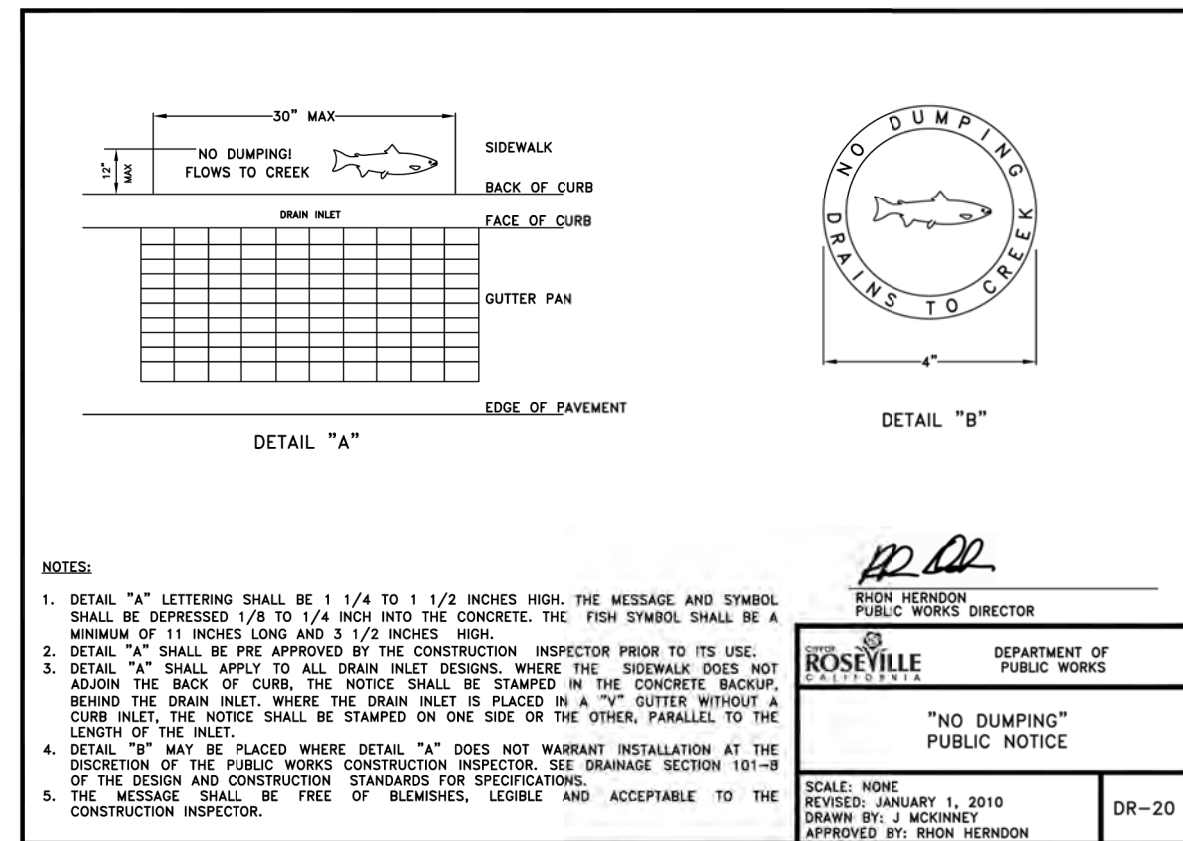
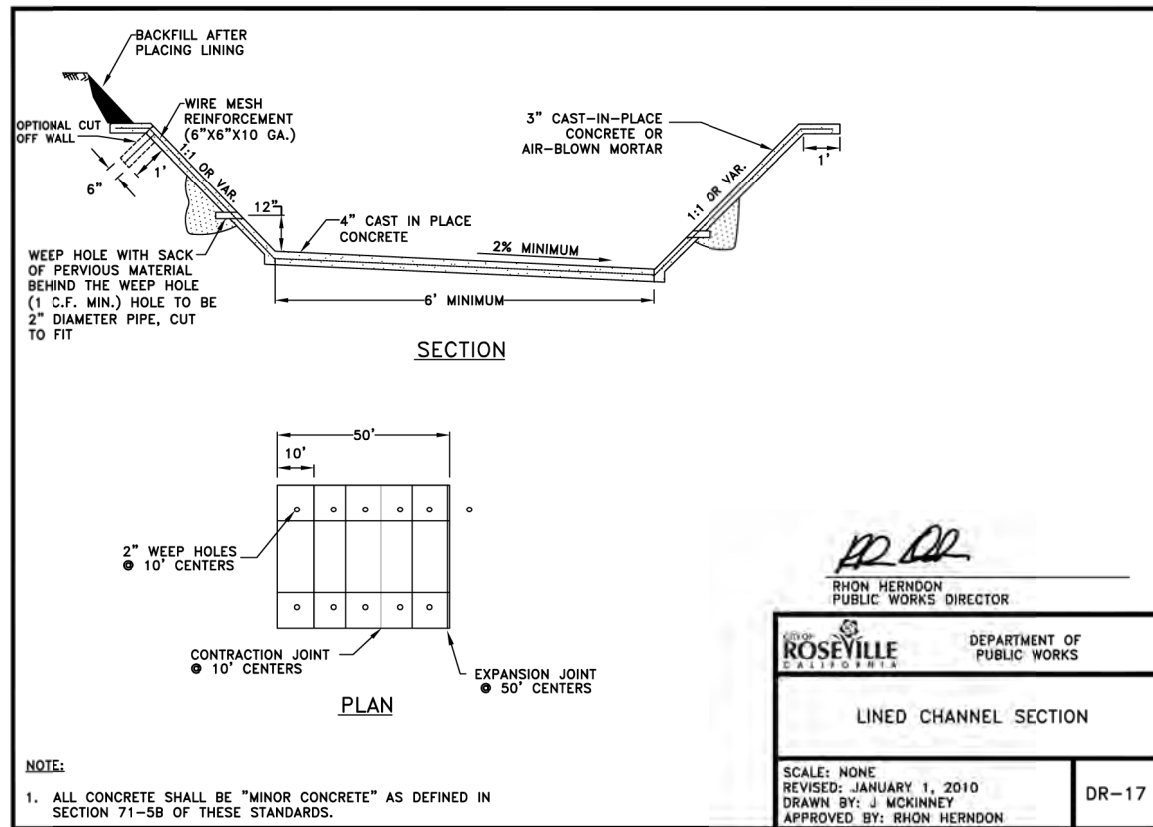




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DESIGNED M FISHER	DRAWN J MARTIN	CHECKED S KADER	APPROVED M FISHER
CITY OF ROSEVILLE CALIFORNIA			
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 Roseville, CA 95661 • (916) 793-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STANDARD DETAILS 12			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-G-031			
SHEET NUMBER 27			



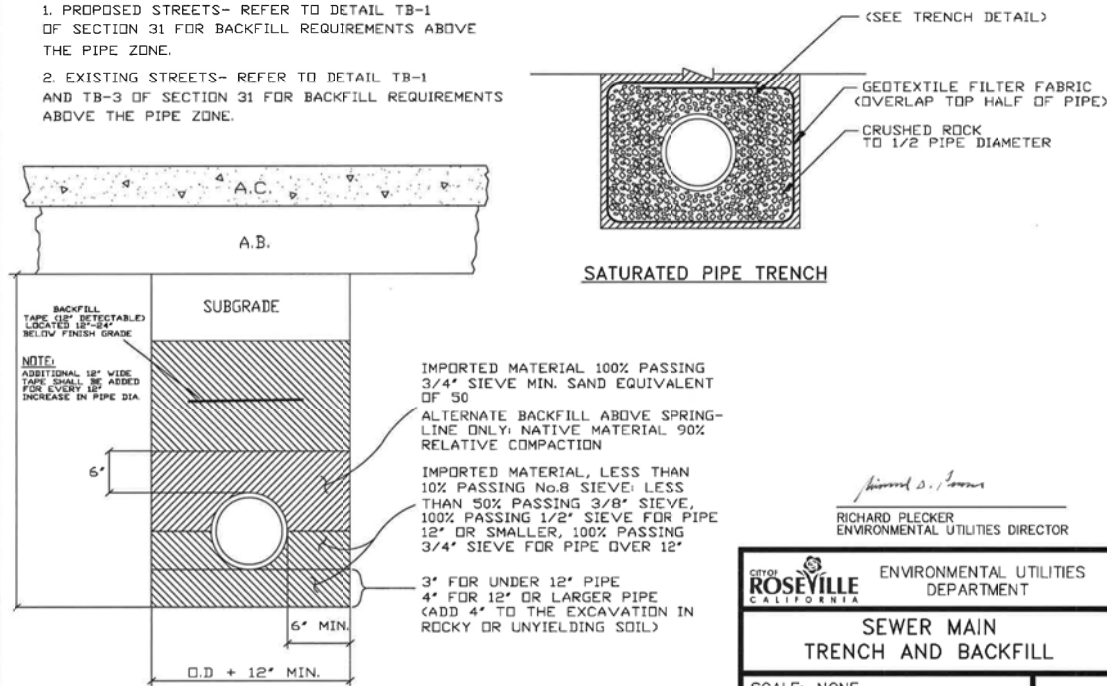
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DESIGNED M FISHER	DRAWN J MARTIN	CHECKED S KADER	APPROVED M FISHER
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STANDARD DETAILS 13			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-G-032			
SHEET NUMBER 28			

TRENCH BACKFILL REQUIREMENTS:

1. PROPOSED STREETS- REFER TO DETAIL TB-1 OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.
2. EXISTING STREETS- REFER TO DETAIL TB-1 AND TB-3 OF SECTION 31 FOR BACKFILL REQUIREMENTS ABOVE THE PIPE ZONE.



NOTE: BACKFILL SHALL BE MECHANICALLY CONSOLIDATED OR SHOVEL SLICED UNDER THE HAUNCHES OF THE PIPE

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

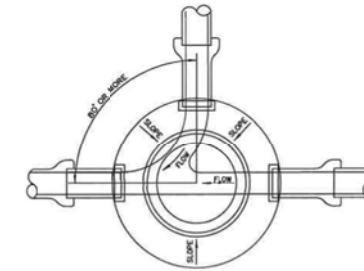
CITY OF ROSEVILLE
CALIFORNIA

ENVIRONMENTAL UTILITIES
DEPARTMENT

SEWER MAIN
TRENCH AND BACKFILL

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-1



NOTES

MANHOLE LIDS SHALL BE SEALED WITH AN APPROVED RUBBER GASKET.
JOINTS SHALL BE MORTARED INSIDE AND OUT.

UNUSED CHANNELS SHALL BE COMPLETELY FILLED WITH GROUT.

STUBS SHALL BE PLUGGED AND END MARKED ABOVE FINISHED GRADE WITH A REDWOOD 4 BY 4 POST PAINTED GREEN

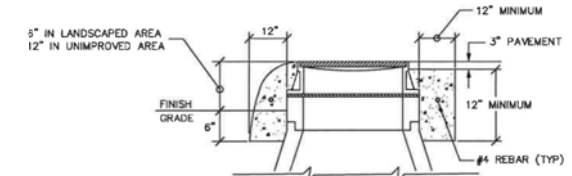
IF AN ECCENTRIC CONE IS USED, PLACE SUCH THAT THE OPENING IS OVER THE UPSTREAM INVERT.

NO CAULDER OR REPAIR COUPLINGS SHALL BE USED ON NEW CONSTRUCTION

FLOW LINES SHALL HAVE A 1/10 DROP OR AS INDICATED ON PLANS

MANHOLES WITH DROPS SHALL BE EPOXY COATED. THE COATING SHALL BE APPLIED PER SEC. 91-10K OF THESE STANDARDS.

* 60" & 72" MANHOLES SHALL USE A 35" COMPOSITE LID AND FRAME.



RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

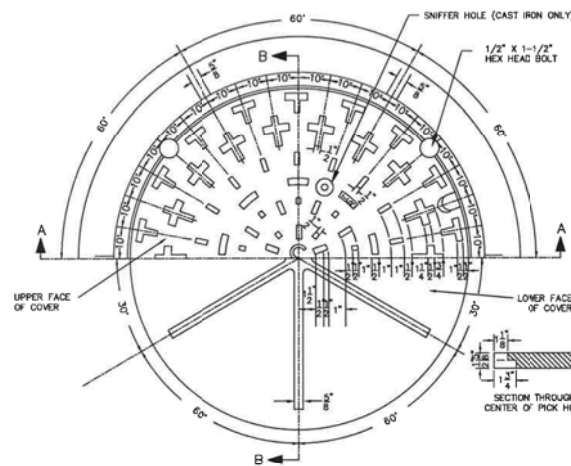
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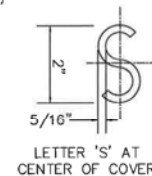
SEWER MANHOLE
STANDARD 48 INCH

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

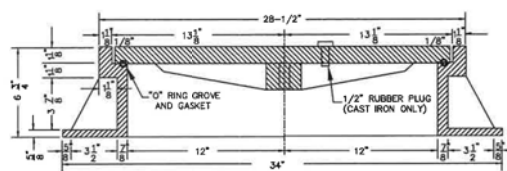
SS-2



HALF PLAN OF HEAD AND COVER



SECTION B-B



SECTION A-A

NOTE: SEE SECTION 91-16.E.3 FOR APPROVED LIST OF SEWER MANHOLE FRAME AND COVER

RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF ROSEVILLE
CALIFORNIA

ENVIRONMENTAL UTILITIES
DEPARTMENT

STANDARD SEWER MANHOLE
FRAME AND COVER

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

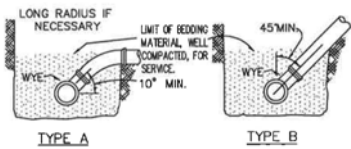
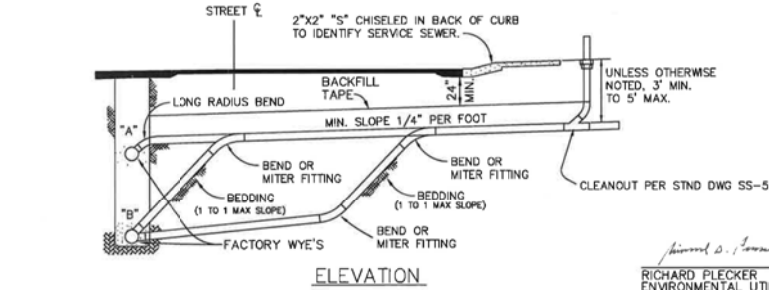
SS-3

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GENERAL NOTES:

1. ALL SERVICE LINES SHALL BE 4" FOR RESIDENTIAL AND 6" FOR COMMERCIAL, UNLESS OTHERWISE NOTED.
2. SERVICES SHALL HAVE SAME BEDDING AND BACKFILL AS LATERAL SEWER.
3. CONTRACTOR SHALL USE THE MOST APPROPRIATE TYPE CONNECTION (A OR B) FOR THE PARTICULAR SITUATION ENCOUNTERED.
4. SERVICE SEWER SHALL HAVE MINIMUM 3'-0" COVER AT PROPERTY LINE WHENEVER LATERAL DEPTH AND SERVICE SEWER SLOPE OF 1/4" PER FOOT (MINIMUM) PERMIT. SEE NOTE 10.
5. WHEN THE LATERAL SEWER DEPTH IS SUCH THAT MINIMUM COVER AT PROPERTY LINE CANNOT BE MET, THE MINIMUM SLOPE OF 1/4" PER FOOT SHALL GOVERN THE COVER.
6. MIN. SPECIFIED COVER AT THE PROPERTY LINE SHALL BE MEASURED FROM EXISTING GROUND SURFACE OR EDGE OF ADJACENT ROADWAY, WHICHEVER IS LOWER.
7. A SPECIFIC ELEVATION AT THE PROPERTY LINE, WHEN SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER, SHALL GOVERN.
8. MITER FITTING SHALL BE MAX. 45°.
9. MINIMUM DEPTH OF COVER SHALL BE INCREASED TO 4'-6" WHERE A WATER MAIN IS TO BE INSTALLED AT BACK OF SIDEWALK AS PART OF THE SUBDIVISION IMPROVEMENTS. IN SUCH CASES, THE SERVICE SHALL BE EXTENDED TO A MINIMUM OF 7' BACK OF SIDEWALK, CLEANOUT TO GRADE SHALL REMAIN WITHIN 3' OF BACK OF SIDEWALK.
10. SEWER SERVICES ORIGINATING FROM SEWER MAINS 14 FT AND GREATER IN DEPTH SHALL HAVE THE CROUCH OF THE VCP "WYE" FITTING FILLED WITH CONCRETE.
11. UNDERGROUND CONTRACTOR SHALL END SEWER SERVICE 2-3' UPSTREAM OF SEWER CLEANOUT. SEE STANDARD DETAIL SS-5.



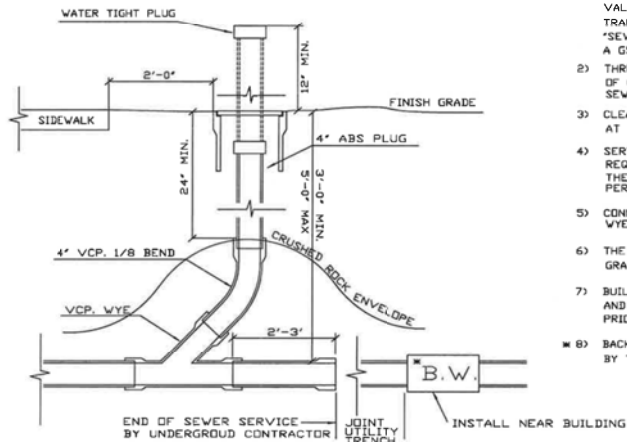
CONNECTION DETAILS

CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES DEPARTMENT

SEWER SERVICE

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

SS-4



NOTES:

- 1) INSTALL ROUND NON-TRAFFIC TYPE CONCRETE VALVE BOX & COVER MARKED "SEWER" IN A NON - TRAFFIC AREA. INSTALL METAL LID MARKED "SEWER" IN AREAS WITH POTENTIAL TRAFFIC. A GS BOX SHALL BE INSTALLED IN TRAFFIC AREAS.
- 2) THREE FOOT VCP STUB SHALL BE INSTALLED UPSTREAM OF CLEANOUT. 2" VCP SHALL BE INSTALLED WHERE SEWER SERVICE ENTERS OVER JOINT UTILITY TRENCH
- 3) CLEANOUT BOX TO BE FREE OF ALL DIRT AND READY AT TIME OF PRE-FINAL INSPECTION.
- 4) SERVICES OVER 100' LONG AND COMMERCIAL SERVICES REQUIRE A MIN. 6' CLEANOUT WITH 6" FITTINGS. THE CLEANOUT BOX SHALL BE CONSTRUCTED PER W-16.
- 5) CONNECTION TO MAIN SHALL BE WITH A FACTORY WYE OR AT A MANHOLE.
- 6) THE CLEANOUT RISER SHALL BE INSTALLED 12" ABOVE GRADE PRIOR TO BUILDING CONSTRUCTION.
- 7) BUILDING CONTRACTOR SHALL SET BOX TO FINISH GRADE AND INSTALL AN ABS PLUG SET 6" BELOW THE SURFACE PRIOR TO BUILDING PRE-FINAL.
- 8) BACKWATER VALVE IF REQUIRED SHALL BE INSTALLED BY THE BUILDING CONTRACTOR

- 9) 2" VCP SHALL BE INSTALLED WHERE SEWER SERVICE ENTERS OVER JOINT UTILITY TRENCH.
- 10) TREES ARE TO BE PLACED 7 1/2' FROM CLEAN OUT.
- 11) INSTALL A CITY CLEANOUT AT A MINIMUM 5' FROM COMMERCIAL BUILDINGS.

CITY OF ROSEVILLE
ENVIRONMENTAL UTILITIES DEPARTMENT

SEWER SERVICE CLEANOUT

SCALE: NONE
REVISED: JANUARY 2016
DRAWN BY: R. VAN NESS
APPROVED BY: RICHARD PLECKER

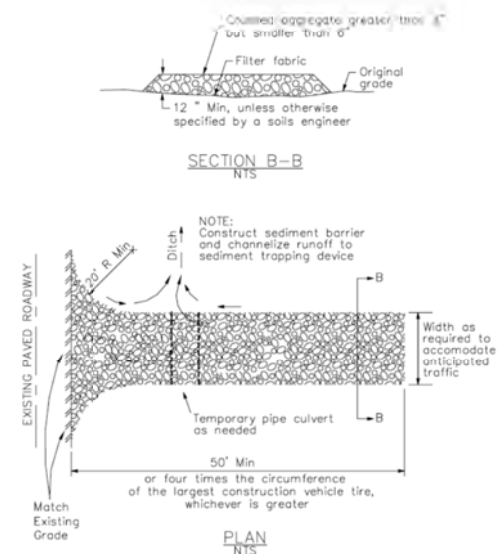
SS-5

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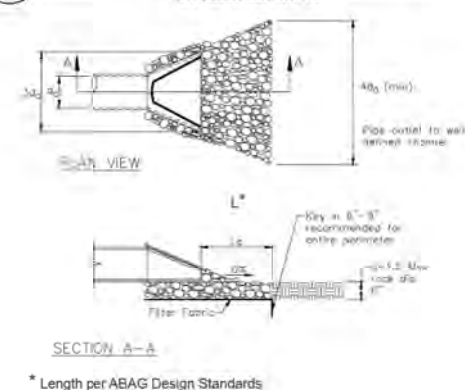
3 Stabilized Construction Entrance/Exit

CASQA Detail TC-1



4 Velocity Dissipation Devices

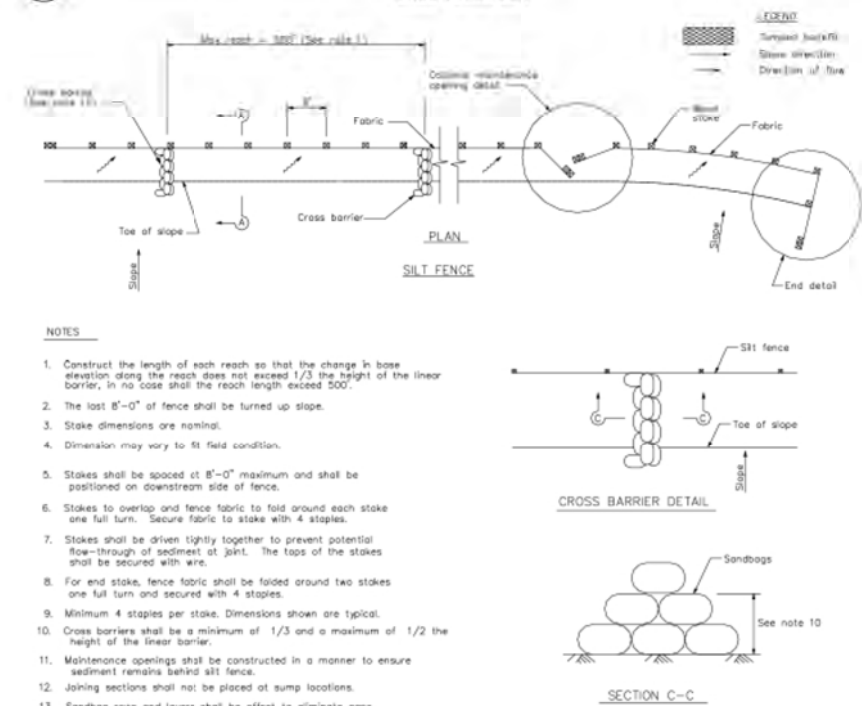
CASQA Detail EC-10



Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003.
Available from: www.cabmphandbooks.com

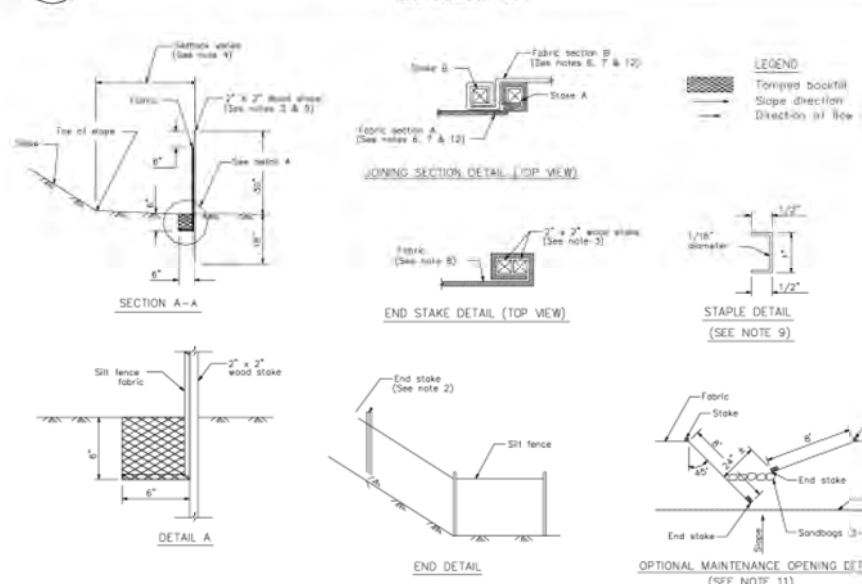
1 Silt Fence

CASQA Detail SE-1



2 Silt Fence

CASQA Detail SE-1



STANDARD BEST MANAGEMENT PRACTICE NOTES

- Solid and Demolition Waste Management:** Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-3) or latest.
- Hazardous Waste Management:** Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material handler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- Spill Prevention and Control:** Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where on-site maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-9) or latest.
- Material Delivery, Handling and Storage:** In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- Handling and Disposal of Concrete and Cement:** When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- Pavement Construction Management:** Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- Contaminated Soil and Water Management:** Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
- Sanitary/Septic Water Management:** Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
- Inspection & Maintenance:** Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

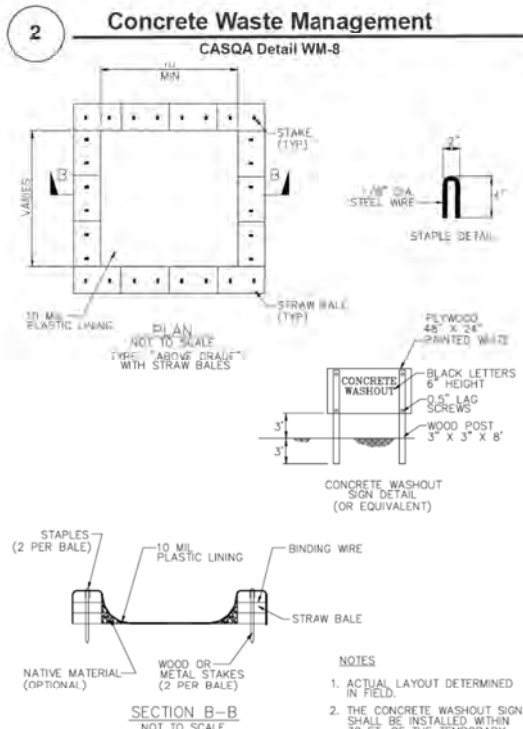
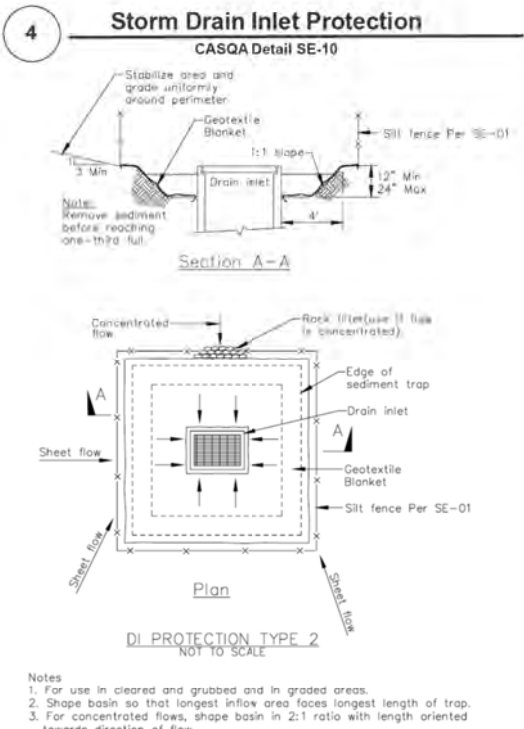
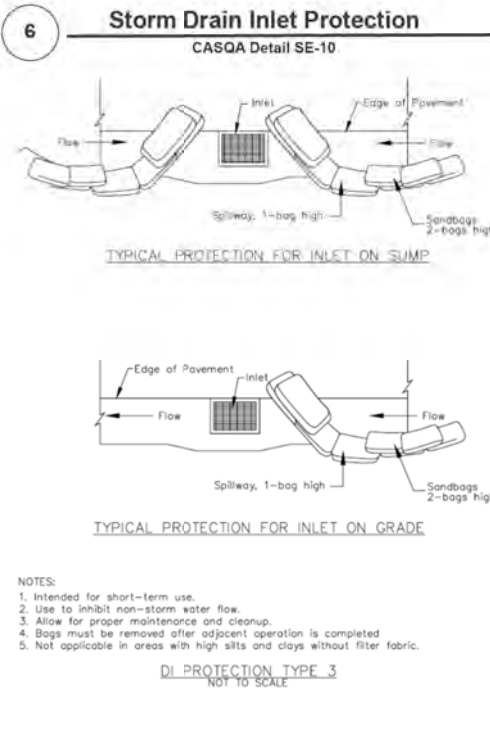
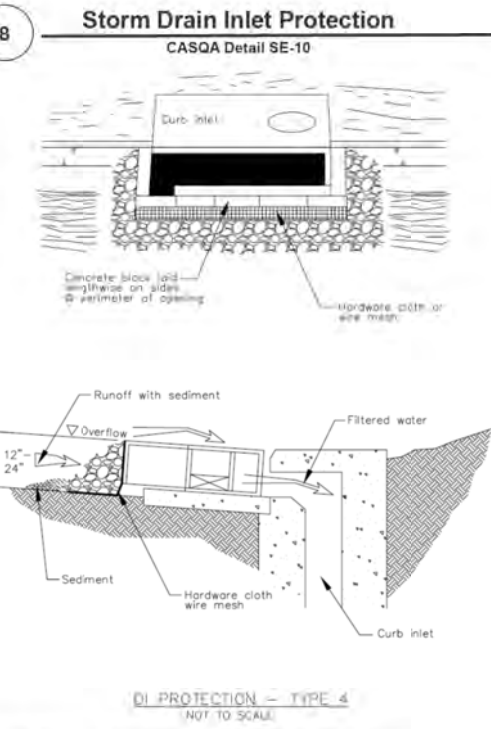
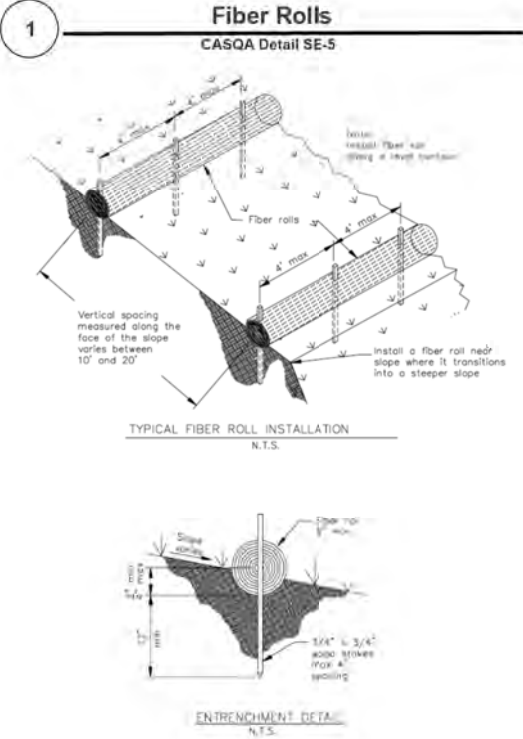
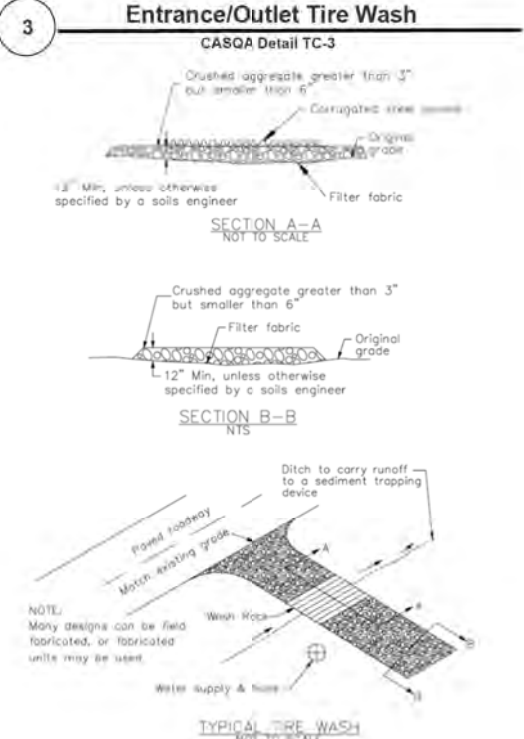
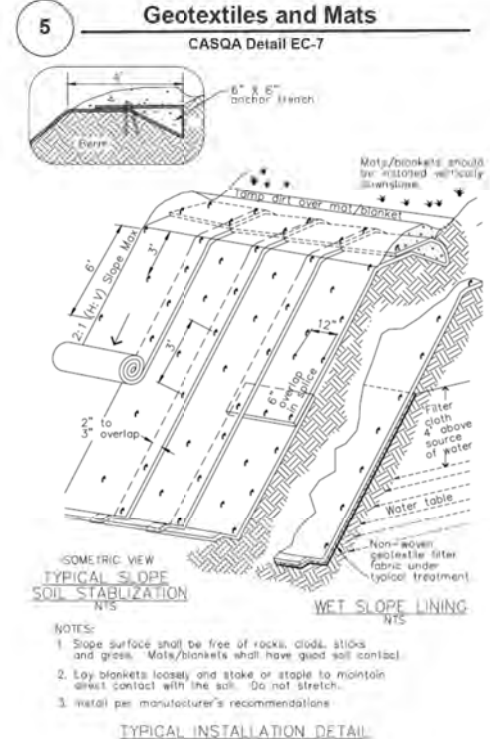
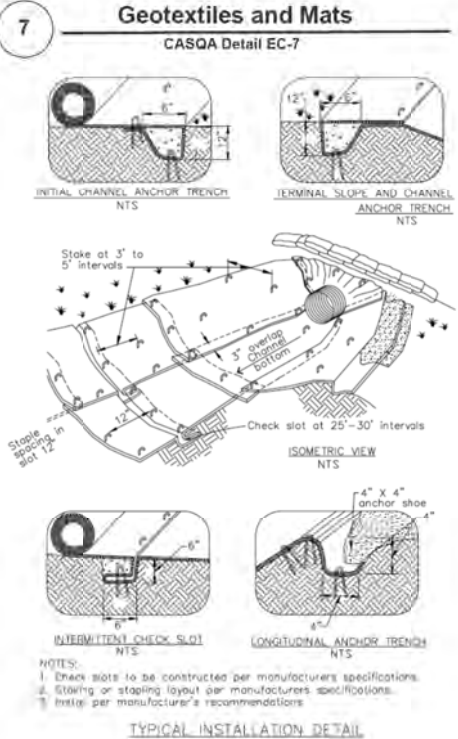
STANDARD EROSION CONTROL NOTES

- Sediment Control Management:**
 - Tracking Prevention & Clean Up:** Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.
 - Storm Drain Inlet and Catch Basin Inlet Protection:** All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
 - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
 - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
 - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (tarps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
- Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.**
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.**

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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STANDARD DETAILS 16			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-G-035			
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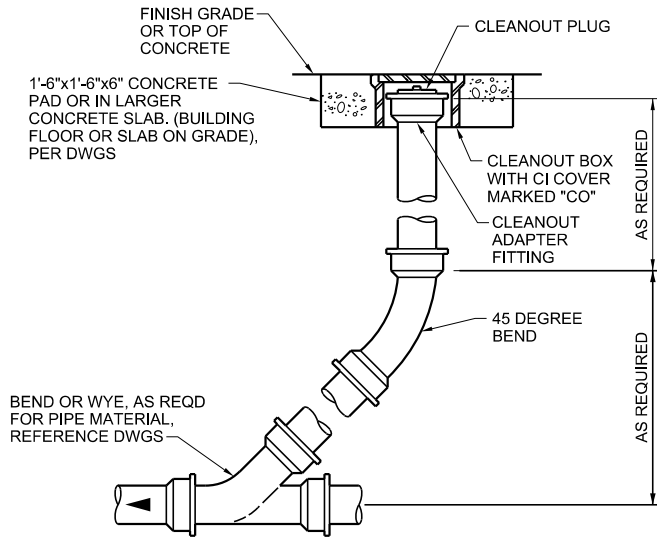


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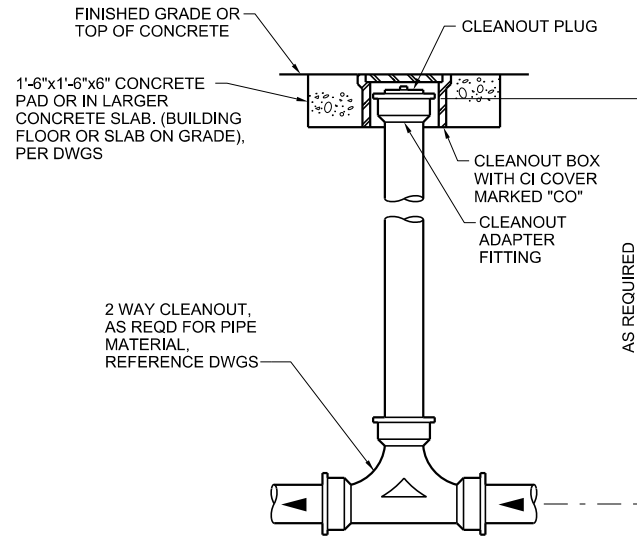


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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STANDARD DETAILS 17			
DATE NOVEMBER 2019		PROJECT NUMBER 17-083	
DRAWING NUMBER WD00-G-036		SHEET NUMBER 32	



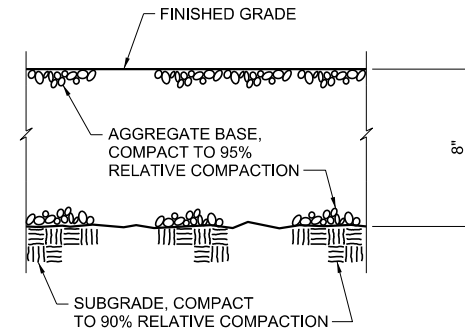
DRAIN LINE CLEANOUT
NTS

2130



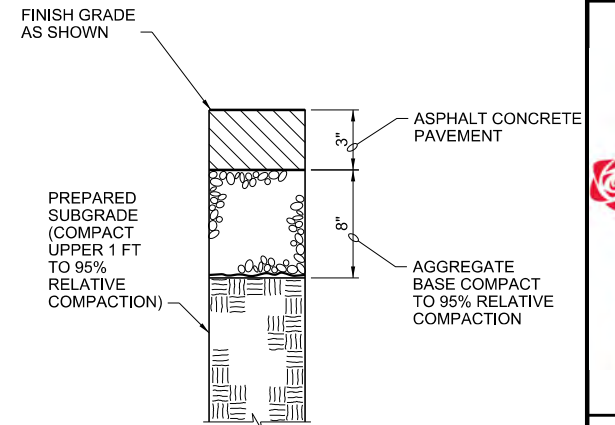
TWO WAY DRAIN LINE CLEANOUT
NTS

2132



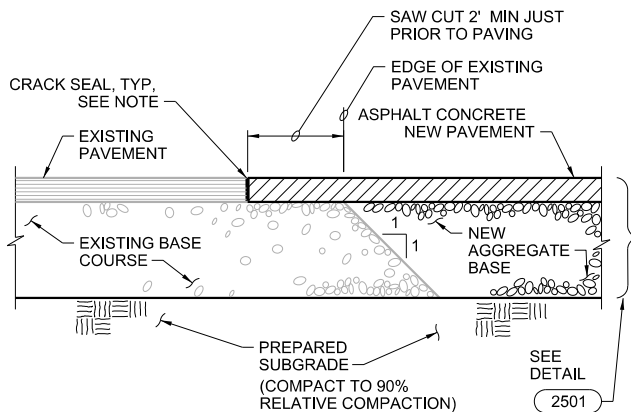
GRAVEL ROAD SURFACING
NTS

2500



ASPHALT CONCRETE PAVEMENT
NTS

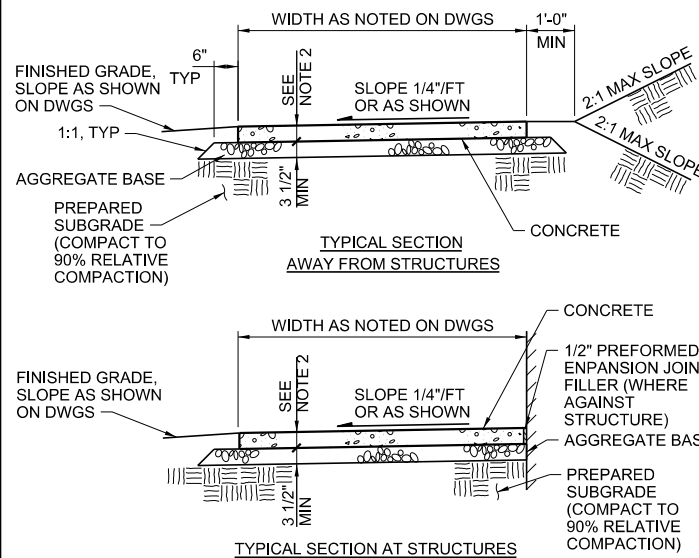
2501



- NOTES:**
1. PAINT EDGE OF EXISTING ASPHALT WITH TACK COAT PRIOR TO PAVING. CRACK SEAL JOINT AFTER PAVING OPERATION HAS BEEN COMPLETED.

PAVEMENT CONNECTION
NTS

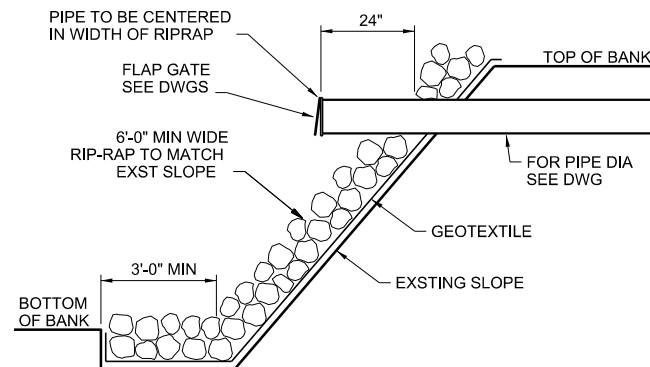
2502



- NOTES:**
1. SIDEWALKS 8 FEET AND WIDER SHALL HAVE A LONGITUDINAL CONTRACTION JOINT AT THE MIDPOINT. PROVIDE LATERAL CONTRACTION JOINTS AT EQUAL SPACING, NO MORE THAN 5'-0" BETWEEN JOINTS.
 2. CONCRETE DEPTH FOR STANDARD SIDEWALKS SHALL BE 4" MINIMUM, THICKNESS IN DRIVEWAY SHALL BE 6" MINIMUM.

CONCRETE SIDEWALK
NTS

2503



- NOTE:**
1. ROCK SLOPE PROTECTION SHALL CONFORM TO SECTION 72-2 OF THE CALTRANS STANDARD SPECIFICATIONS
 2. ROCK SLOPE PROTECTION SHALL BE GRADED FOR 1/4- TON, METHOD "B" PLACEMENT

**PIPE OUTLET W/
ROCK SLOPE PROTECTION**
NTS

2510

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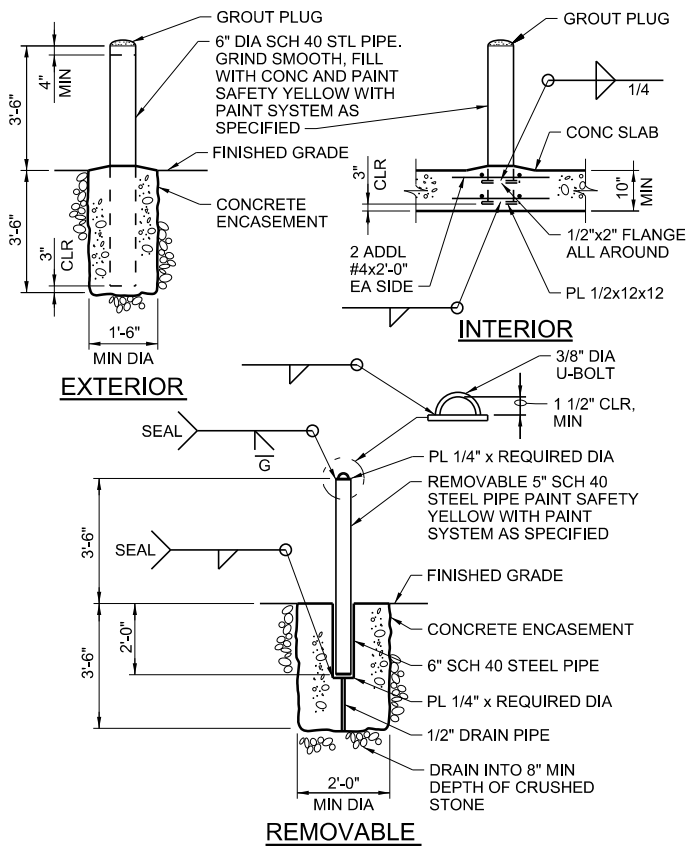


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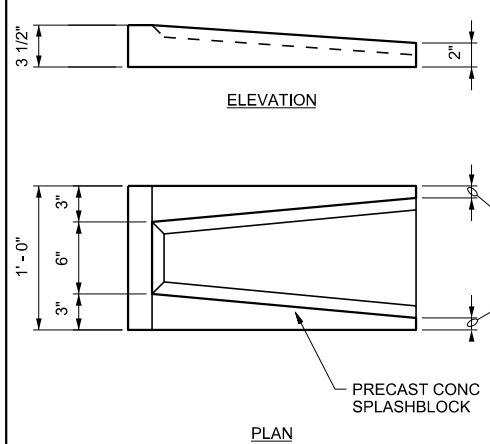
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

GENERAL
STANDARD DETAILS 18

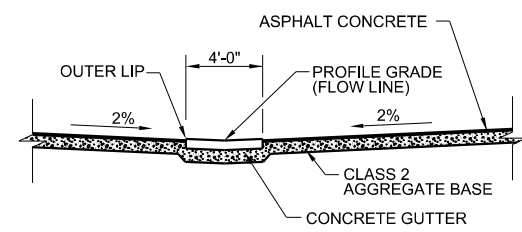
DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-G-037
SHEET NUMBER 33



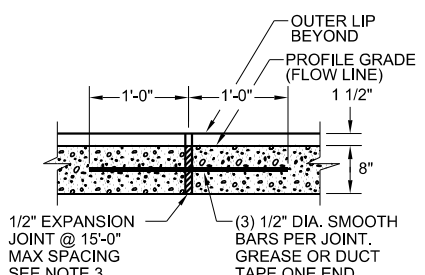
GUARD POST
NTS
2600



SPLASH BLOCK
NTS
2601



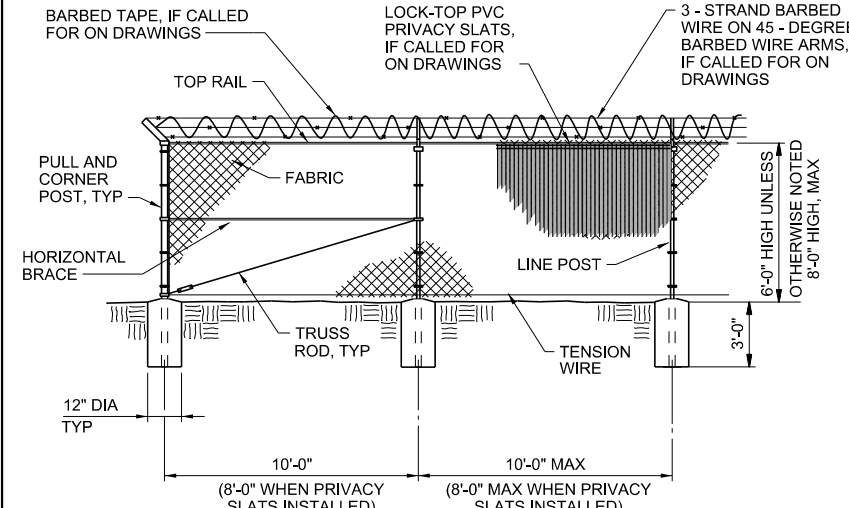
TYP. CROSS SECTION



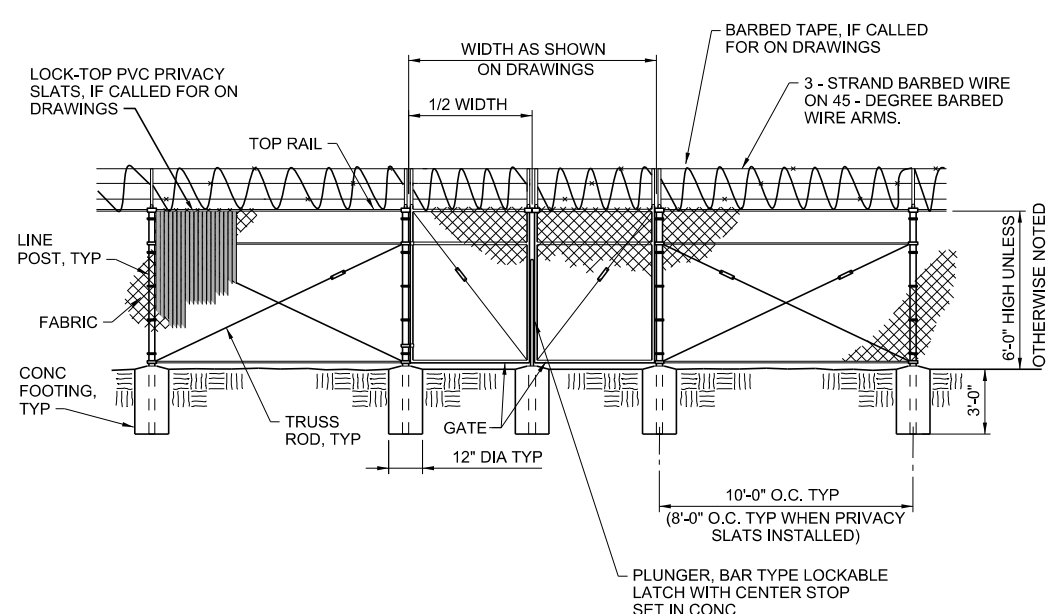
EXPANSION JOINT DETAIL

- NOTES**
1. ALL WORK AND MATERIALS SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
 2. SURFACING AND BASE THICKNESS SHALL BE DETERMINED IN ACCORDANCE WITH PROJECT SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
 3. 1/2-INCH, PRE-MOLDED EXPANSION JOINT MATERIAL SHALL BE HELD FIRMLY IN PLACE PRIOR TO PLACING CONCRETE.

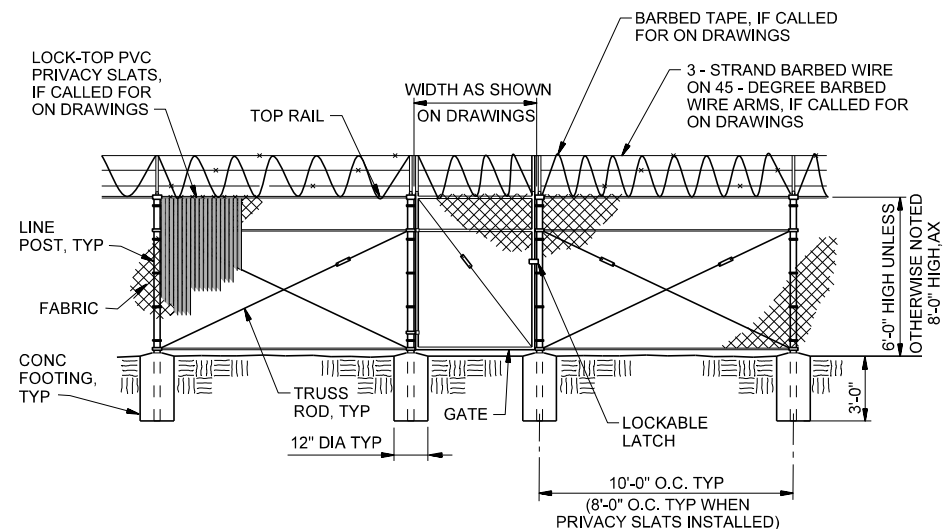
TYPICAL CONCRETE SWALE
NTS
2720



CHAINLINK FENCE
NTS
2800



CHAINLINK DOUBLE-LEAF GATE
NTS
2801

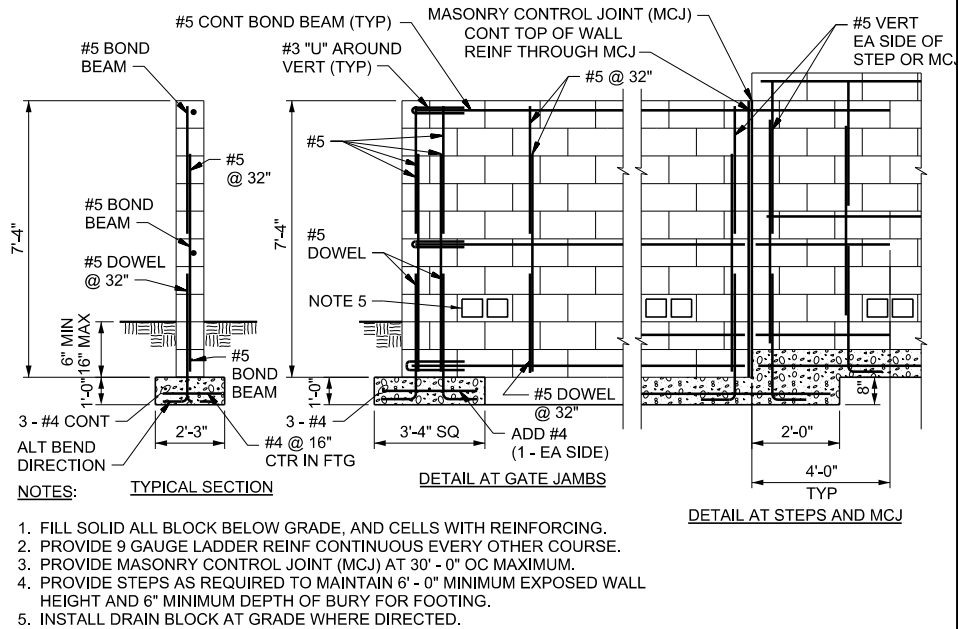


CHAINLINK SINGLE-LEAF GATE
NTS
2802

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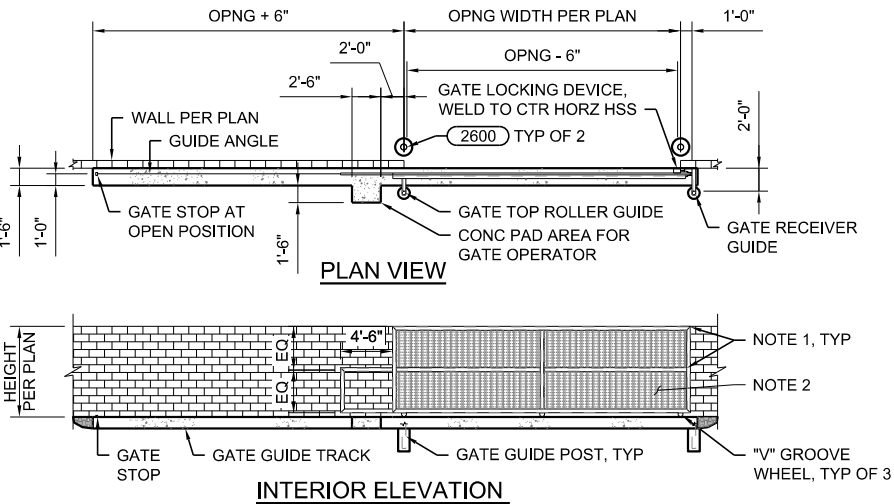


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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STANDARD DETAILS 19			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-G-038			
SHEET NUMBER 34			



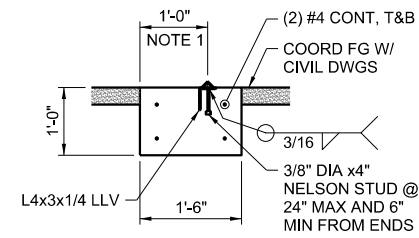
8 - INCH MASONRY WALL
NTS

2810

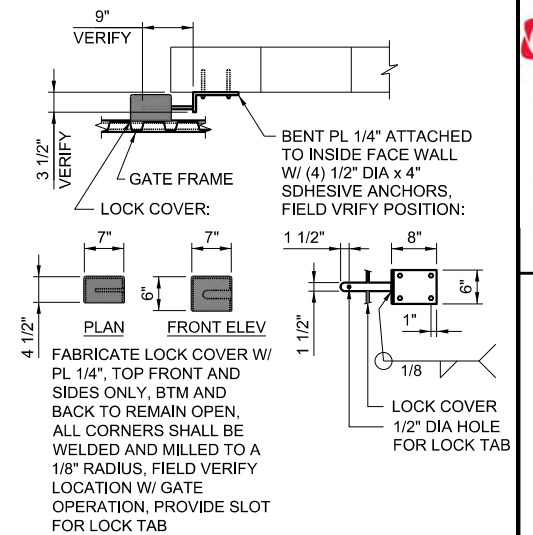


ROLLING FABRICATED STEEL GATE 1 OF 3
NTS

2815



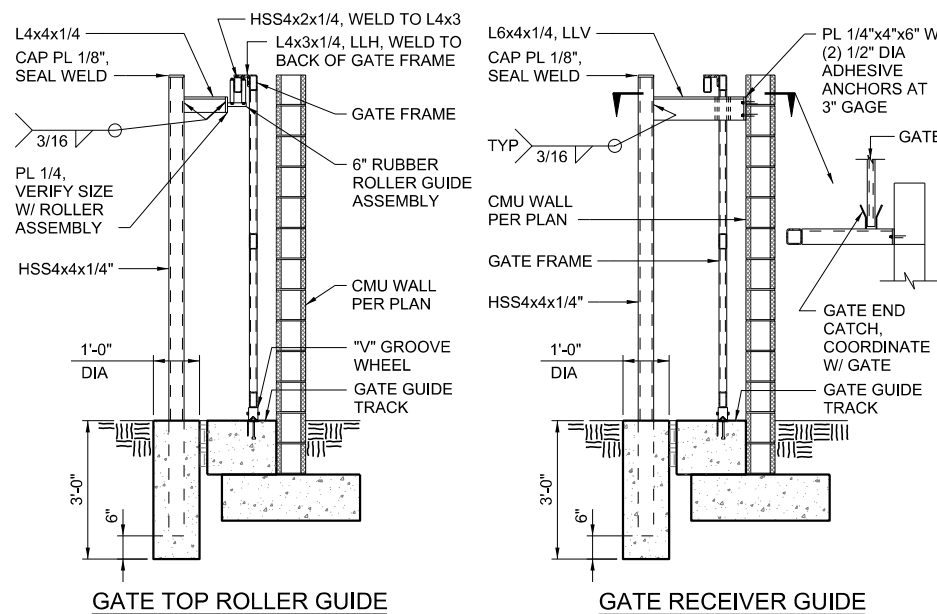
GATE GUIDE TRACK



GATE LOCKING DEVICE

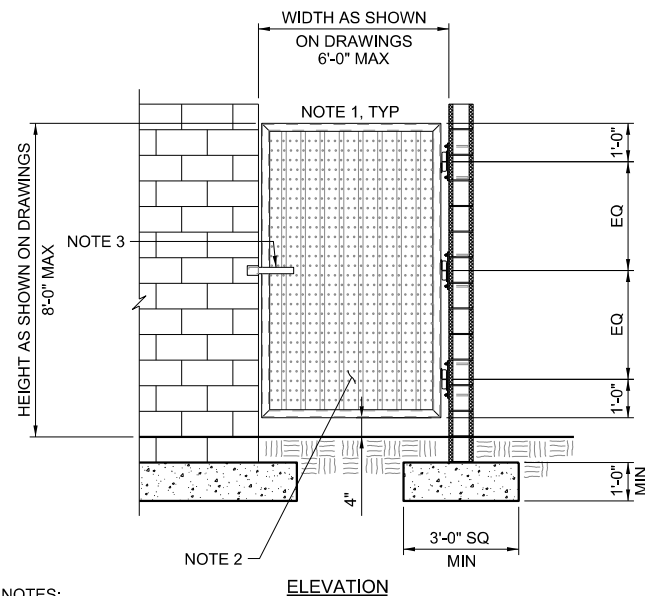
STEEL ROLLING GATE
NTS

2 OF 3 2815



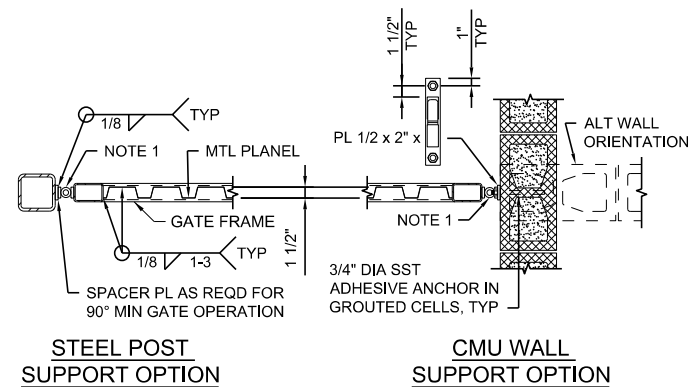
STEEL ROLLING GATE
NTS

3 OF 3 2815



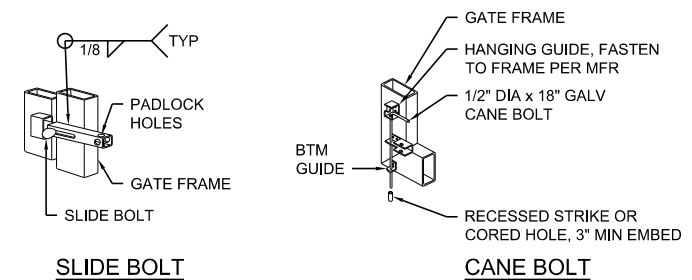
STEEL SINGLE-LEAF GATE
NTS

2817



STEEL POST SUPPORT OPTION

CMU WALL SUPPORT OPTION



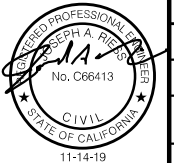
SLIDE BOLT

CANE BOLT

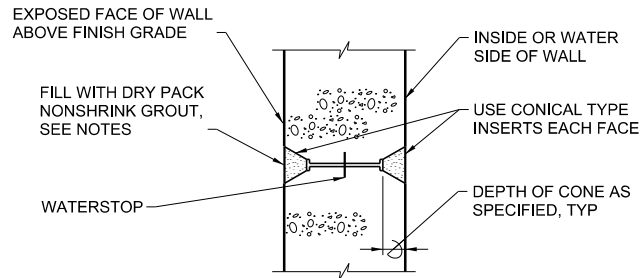
SINGLE-LEAF FABRICATED STEEL GATE
NTS

2819

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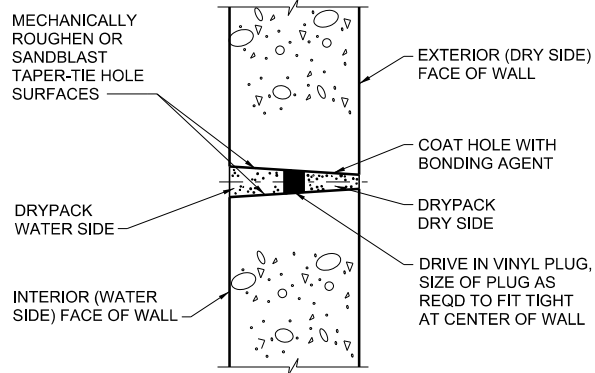
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STANDARD DETAILS 20			
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD00-G-039 SHEET NUMBER 35			



- NOTES:
1. THE SPACING OF FORM TIES ON EXPOSED PORTIONS OF WALLS SHALL BE APPROXIMATELY EQUAL HORIZONTALLY AND VERTICALLY AND SHALL BE UNIFORM IN EACH DIRECTION.
 2. DRY PACK METHOD SHALL BE AS SPECIFIED USING STEEL TOOLS.

FORM SNAP-TIE HOLE
NTS

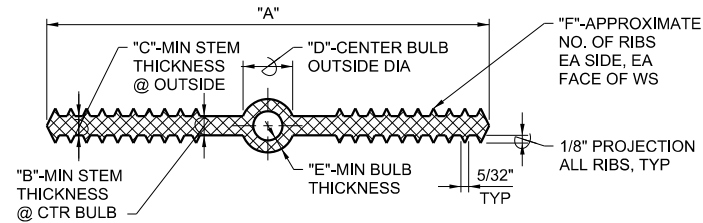
3051



- NOTE:
MINIMUM HOLE DIAMETER AT EXTERIOR FACE = 1". TAPER HOLE SO THAT MINIMUM HOLE DIAMETER AT INTERIOR FACE = 1 1/4"
- CONSTRUCTION STEPS:
1. SANDBLAST OR MECHANICALLY ROUGHEN WITH ELECTRIC EQUIPMENT.
 2. DRIVE IN VINYL PLUG.
 3. COAT HOLE ON DRY SIDE OF PLUG AND WHILE BONDING AGENT IS TACKY, DRYPACK.
 4. COAT HOLE ON WATER SIDE OF PLUG AND WHILE BONDING AGENT IS TACKY, DRYPACK.
 5. USE TYPE II, NON-SHRINK GROUT AS SPECIFIED.

ALTERNATE FORM TIE-THROUGH BOLT
NTS

3052

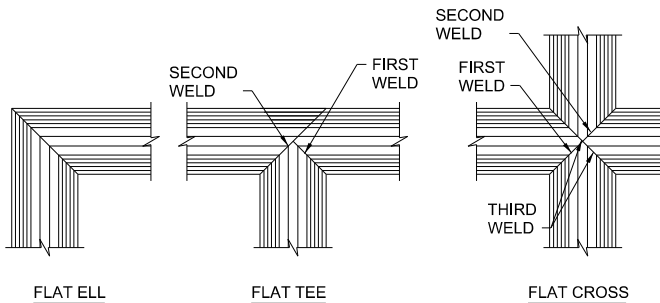
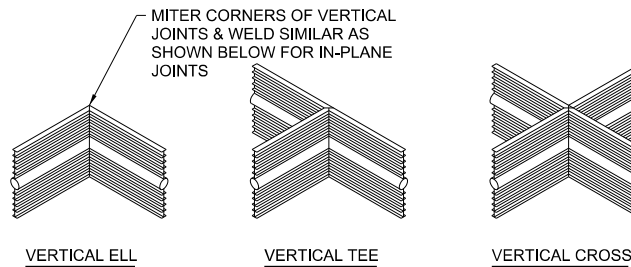


SIZE	"A"	"B"	"C"	"D"	"E"	"F"
4"x3/16"	4"	3/16"	3/16"	3/4"	1/4"	4
6"x3/8"	6"	3/8"	3/8"	7/8"	1/4"	6
9"x3/8"	9"	3/8"	3/8"	1"	1/4"	8

- NOTES:
1. NON-ROUND CENTER BULBS SHALL HAVE A MINIMUM OUTSIDE DIMENSION OF 'D'.
 2. SEE SPLICE DETAIL (3111)
 3. BULB TYPE WATERSTOP SHOWN IS REQUIRED FOR EXPANSION AND CONTROL JOINTS. SIMILAR WATERSTOPS WITHOUT CENTER BULB MAY BE SUBSTITUTED AT CONSTRUCTION JOINTS.
 4. USE 6 INCH WATERSTOPS IN ALL CONSTRUCTION JOINTS UNLESS SPECIFICALLY SHOWN OTHERWISE.

PLASTIC WATERSTOP
NTS

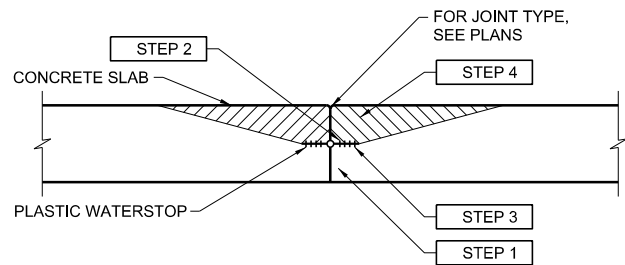
3101



NOTE:
ALL WELDS SHALL BE PER WATERSTOP MANUFACTURER'S RECOMMENDATIONS.

WATERSTOP JOINTS
NTS

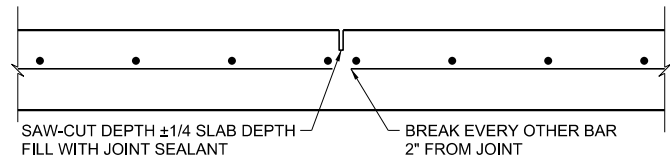
3111



- NOTES:
- PLACEMENT SEQUENCE SHOWN REQUIRED ON BOTH SIDES OF JOINTS, IN ALL CONCRETE SLAB AND FOOTING POURS WITH HORIZONTALLY PLACED PLASTIC WATERSTOPS.
- STEP 1
PLACE CONCRETE BELOW WATERSTOP FIRST, REMOVE ALL AIR VOIDS BY VIBRATING THOROUGHLY.
- STEP 2
TO CONFIRM THERE ARE NO AIR VOIDS, LIFT WATERSTOP. A CONTINUOUS IMPRESSION OF THE WATERSTOP, INCLUDING EDGE OF BULB, SHOULD BE VISIBLE IN THE FRESH CONCRETE. CONTINUE THIS PROCEDURE ALONG THE ENTIRE POURED JOINT, END TO END. IF A CONTINUOUS IMPRESSION IS CONFIRMED, PROCEED WITH STEP 4. IF A VOID LARGER THAN 1/4 INCH IN DIAMETER IS PRESENT ANYWHERE IN THE WATERSTOP IMPRESSION, PROCEED WITH STEP 3.
- STEP 3
IF A VOID LARGER THAN 1/4 INCH IN DIAMETER IS PRESENT IN THE WATERSTOP IMPRESSION, ADDITIONAL CONCRETE SHALL BE PLACED UNDER THE WATERSTOP, VIBRATED, AND STEP 2 REPEATED.
- STEP 4
FINISH PLACING CONCRETE ABOVE THE WATERSTOP TO TOP OF SLAB.
- USE IN CONJUNCTION WITH ALL TYPES OF SLAB AND FOOTING JOINTS. CROSS REFERENCE ON JOINT DETAILS.

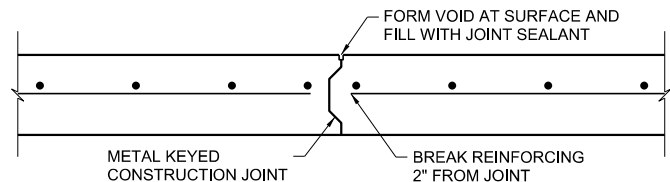
CONCRETE PLACEMENT SEQUENCE
NTS

3133

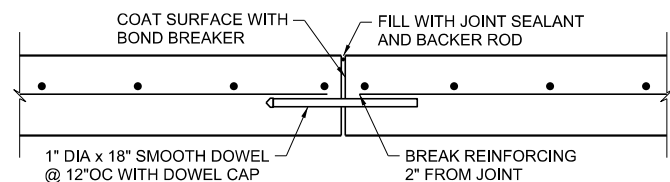


- NOTES:
1. SAW-CUT SAME DAY AS POUR AS SOON AS SPALLING WILL NOT OCCUR.
 2. CONTRACTOR SHALL USE STRING LINE OR OTHER POSITIVE MEANS TO PLACE REINFORCING AND LOCATE SAWCUT.
 3. BREAK REINF AND ADD SPLICE BARS SIMILAR AT DOUBLE MAT.
 4. 3/8" TOOLED JOINT MAY BE USED IN PLACE OF SAWN JOINT.

SLAB ON GRADE SAWN JOINT, TYPE A



SLAB ON GRADE CONSTRUCTION JOINT, TYPE B



SLAB ON GRADE CONSTRUCTION JOINT, TYPE C

CONC SLAB ON GRADE JOINTS
NTS

3160

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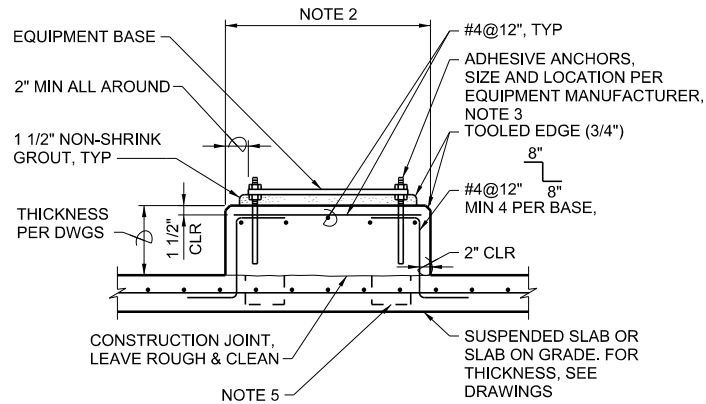
1. PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE DRAWINGS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER, AND SHALL BE AS APPROVED BY THE ENGINEER. ANCHOR BOLTS SHALL BE HELD IN POSITION WITH A ONE PIECE TEMPLATE, MATCHING THE BASE PLATE, WHILE PAD IS BEING POURED.
3. ANCHOR BOLT SLEEVES SHALL BE USED TO PROVIDE THE ANCHOR BOLT A MINIMUM MOVEMENT OF 1/2" IN ALL DIRECTIONS. THE MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT.
4. ANCHOR BOLT SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER 3" GREATER THAN ANCHOR BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT.
5. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.
6. THE TYPE "D" DETAIL SHALL BE USED ONLY FOR SLABS ON GRADE AND AT GRADE. THE SURROUNDING FLOOR SLAB SHALL NOT BE PLACED UNTIL THE EXACT SIZE AND LOCATION OF THE PAD IS KNOWN.
7. WEDGES OR SHIMS SHALL BE USED TO SUPPORT THE BASE WHILE THE NON-SHRINK GROUT IS PLACED. TEMPORARY LEVELING NUTS SHALL BE BACKED OFF. IF LEFT IN, THE WEDGES OR SHIMS SHALL NOT BE EXPOSED TO VIEW.
8. HEIGHT OF PADS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT OUT OF SLAB (SEE TABLE BELOW). WHERE EQUIPMENT OR PIPING ELEVATION REQUIRE A PAD HEIGHT LESS THAN THE MINIMUM SHOWN, USE TYPE B WITH BLOCKOUT.

AB DIA (IN.)	1/2	5/8	3/4	7/8	1	1 1/4	1 3/8	1 1/2	1 3/4	2
MIN PAD HT (IN.)	7	8 1/2	10	11	12 1/2	15	16 1/2	18	21	24

9. TYPE "F" PADS MAY BE SUBSTITUTED FOR TYPE "A" PADS FOR LOCATIONS APPROVED IN WRITING BY THE ENGINEER.
10. SEE ANCHOR BOLT AND BLOCKOUT DETAILS (3210)

NTS

3200

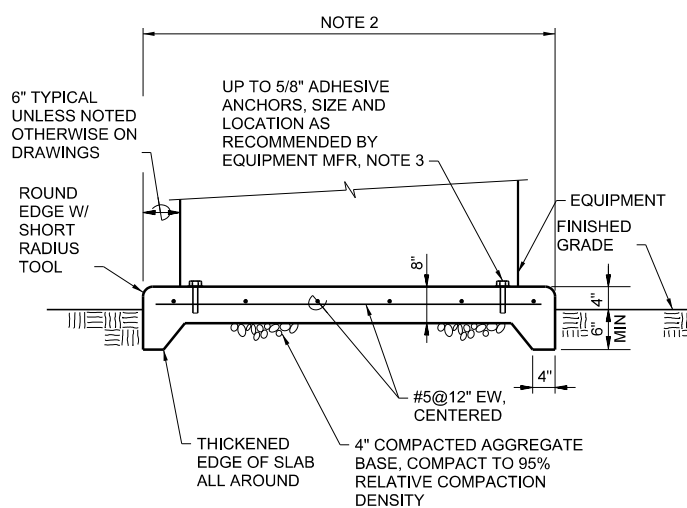


1. SEE (3200) FOR GENERAL EQUIPMENT PAD NOTES.

2. EQUIPMENT PAD SIZE PER DRAWINGS. WHERE PAD SIZE IS NOT SHOWN, SIZE TO FIT EQUIPMENT.
3. IF ANCHOR BOLTS ARE CALLED OUT FOR ON DRAWINGS, PROVIDE ANCHOR BOLTS PER (3210) IN LIEU OF ADHESIVE ANCHORS.
4. ANCHOR BOLT LOCATION SHALL BE WITHIN AN ACCEPTABLE TOLERANCE TO FIT EQUIPMENT MOUNTING OR EQUIPMENT PAD SHALL BE DEMOLISHED AND RE-CONSTRUCTED.
5. IF REQUIRED TO ACCOMMODATE ANCHOR BOLT LENGTH, PROVIDE BLOCK-OUT OR CORE DRILL IN SLABS AT ALL ANCHOR BOLT LOCATIONS PER (3210) .

NTS

3200A

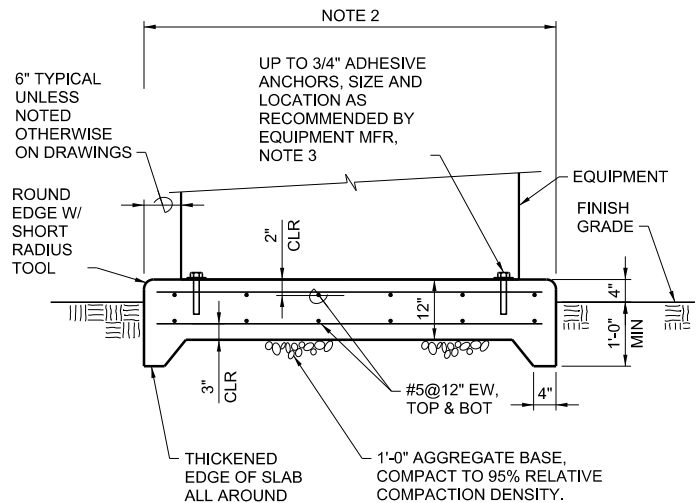


1. SEE (3200) FOR GENERAL EQUIPMENT PAD NOTES.

2. EQUIPMENT PAD SIZE PER DRAWINGS. WHERE PAD SIZE IS NOT SHOWN, SIZE TO FIT EQUIPMENT.
3. IF ANCHOR BOLTS ARE CALLED OUT FOR ON DRAWINGS, PROVIDE ANCHOR BOLTS PER (3210) IN LIEU OF ADHESIVE ANCHORS.

NTS

3200D

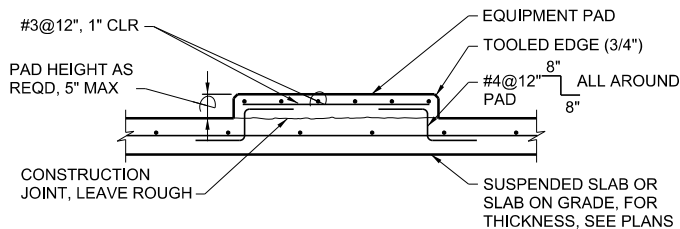


1. SEE 3200 FOR GENERAL EQUIPMENT PAD NOTES.

2. EQUIPMENT PAD SIZE PER DRAWINGS. WHERE PAD SIZE IS NOT SHOWN, SIZE TO FIT EQUIPMENT.
3. IF ANCHOR BOLTS ARE CALLED OUT FOR ON DRAWINGS, PROVIDE ANCHOR BOLTS PER (3210) IN LIEU OF ADHESIVE ANCHORS.

NTS

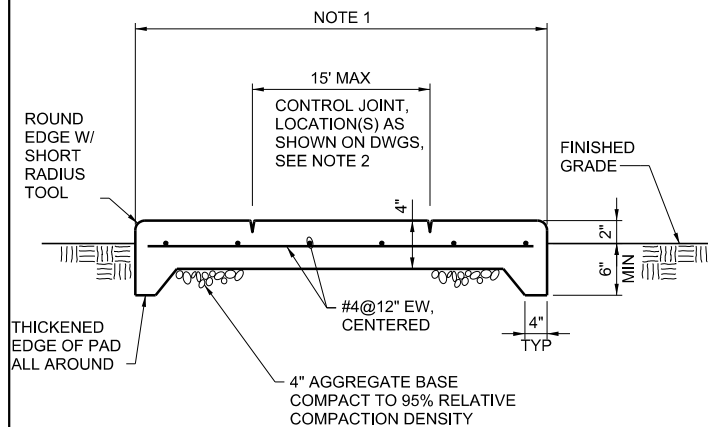
3200E



1. SEE 3200 FOR GENERAL EQUIPMENT PAD NOTES.
2. WHEN ANCHORAGE OF EQUIPMENT TO SLAB IS REQUIRED, USE CAST-IN-PLACE ANCHOR BOLTS IN ACCORDANCE WITH 3210 UNLESS OTHERWISE APPROVED BY THE ENGINEER.

NTS

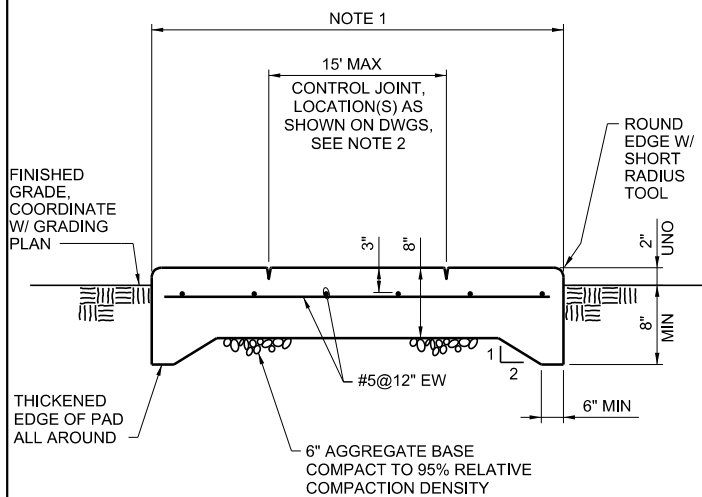
3200F



1. CONCRETE PAD, SIZED PER DRAWINGS.
2. CONTROL JOINT SHALL BE FORMED IN FRESH CONCRETE BY HAND TOOLING OR SAW CUTTING. CONTROL JOINTS SHALL BE FORMED TO A DEPTH OF 1 1/2"

NTS

3201



1. CONCRETE PAD, SIZED PER DRAWINGS.
2. CONTROL JOINT SHALL BE FORMED IN FRESH CONCRETE BY HAND TOOLING OR SAW CUTTING. PROVIDE (3160) TYPE A CONTROL JOINTS, UNLESS OTHERWISE NOTED.

NTS

3202

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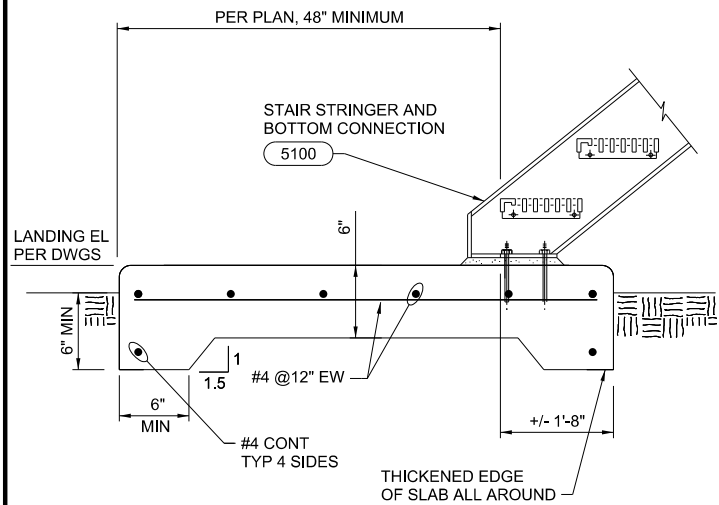


CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

GENERAL

STANDARD DETAILS 22

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD00-G-041
SHEET NUMBER	37

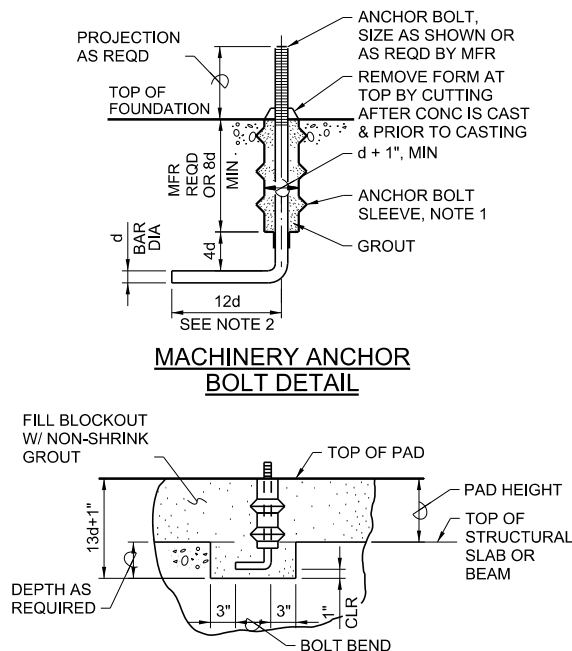


NOTE:
LANDING WIDTH MINIMUM OF CLEAR STAIR WIDTH PLUS 1'-0".

CONCRETE STAIR LANDING

NTS

3203

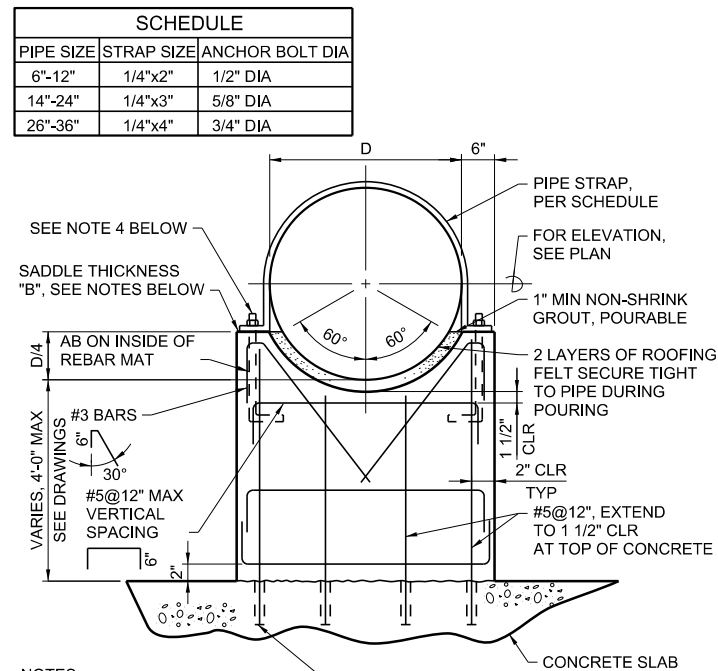


NOTES:
1. ANCHOR BOLT SLEEVE BY THE ANCHOR BOLT SLEEVE COMPANY, SHELTON, CT, OR EQUAL.
2. 3d WHERE MANUFACTURER VERIFIES NO BOLT PULLOUT RESISTANCE REQUIRED.

ANCHOR BOLT DETAILS

NTS

3210

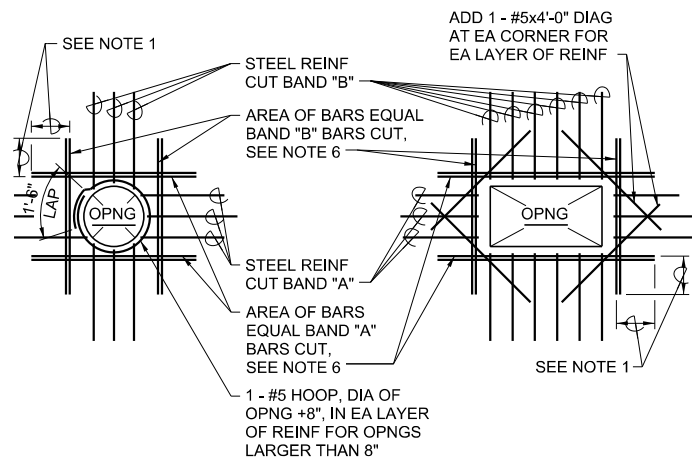


NOTES:
1. SADDLE THICKNESS, "B"
B = 6" WHEN: D < 12"
B = 8" WHEN: 12" ≤ D < 24"
B = 10" WHEN: 24" ≤ D < 36"
B = 12" WHEN: 36" ≤ D < 48"
FOR "B"=10" OR THICKER, USE 2 LAYERS OF REINFORCING, TURN HORIZONTAL BARS 90° TO HOOK AROUND VERTICALS, 1 1/2" CLEAR OF CONCRETE.
2. FORM 3/4" BEVEL ON ALL EXPOSED CORNERS OF SUPPORT.
3. PIPE STRAP ANCHOR BOLTS SHALL HAVE A MINIMUM EMBEDMENT DEPTH OF 8 X D.
4. MAXIMUM DISTANCE BETWEEN SUPPORTS 10'-0".

CONCRETE PIPE SUPPORT

NTS

3300

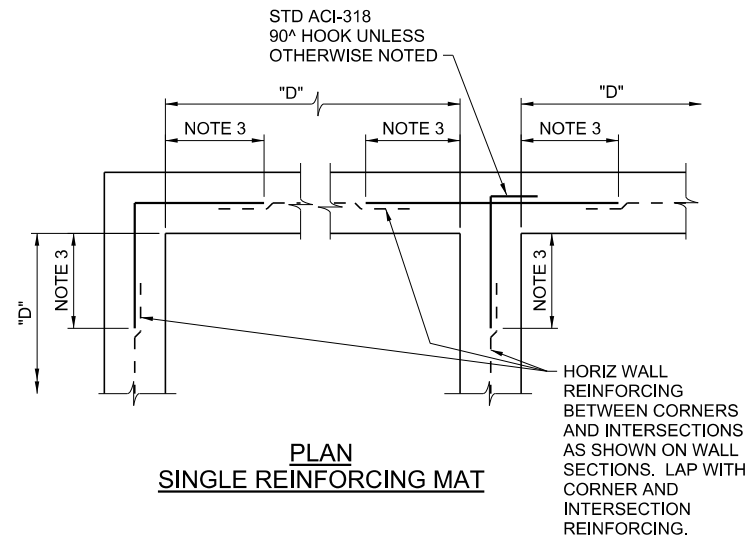


NOTES:
1. PROVIDE MINIMUM LAP, SEE GENERAL STRUCTURAL NOTES. WHERE FULL LAP LENGTH CANNOT BE ACHIEVED DUE TO SLAB OR WALL EDGE, TERMINATE BARS WITH A STANDARD 90 DEGREE BEND 2 INCHES CLEAR OF SLAB OR WALL EDGE. ROTATE HOOKS AS REQUIRED TO MAINTAIN CONCRETE COVER.
2. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS OF BELOW GRADE AND HYDRAULIC STRUCTURES AND ALL STRUCTURAL CONCRETE SLABS UNLESS INDICATED OTHERWISE ON PLANS.
3. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
4. PROVIDE A MINIMUM OF 2 "A" BARS AND 2 "B" BARS EACH SIDE OF OPENING (1 EACH FACE).
5. FOR OPENINGS LARGER THAN 8'-0", REINFORCE SAME AS FOR 8'-0" OPENINGS.
6. SPACE AT 3 BAR DIAMETERS (OR 3" MINIMUM) ON CENTER.

OPENING REINFORCING

NTS

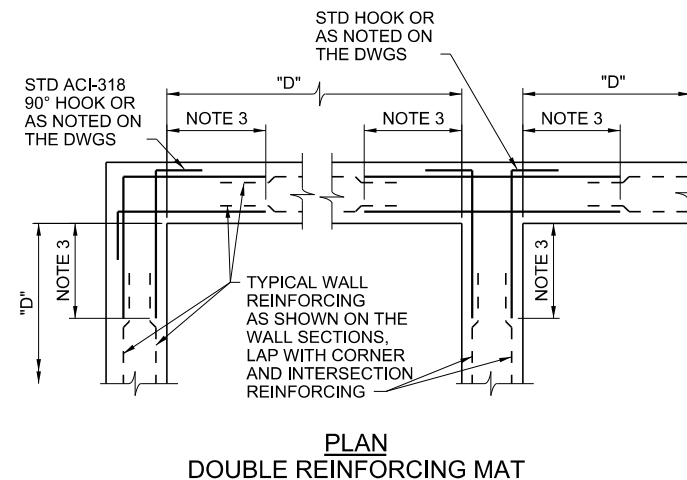
3301



NOTES:
1. TYPICAL HORIZONTAL WALL CORNER AND INTERSECTION REINFORCING LAYOUT IS SHOWN. FOR SIZE AND SPACING, SEE PLANS.
2. WHERE THE CORNER OR INTERSECTION REINFORCING SIZE AND SPACING IS NOT SHOWN, NOTED OR TABULATED ON THE PLANS, THE SIZE AND SPACING SHALL BE THE SAME AS THE WALL HORIZONTAL REINFORCING SHOWN ON THE WALL SECTIONS OR AS NOTED FOR THE REINFORCING BETWEEN THE CORNERS OR INTERSECTIONS.

TYPICAL WALL CORNER AND INTERSECTION REINFORCING

NTS



NOTES:
3. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 3" SHALL BE THE LESSER OF D/4, 8 FEET, OR 1.0 TIMES THE HEIGHT OF THE WALL, EXCEPT THAT IN NO CASE SHALL IT BE LESS THAN 2.0 FEET.
4. D = LENGTH OF WALL PARALLEL TO THE BAR LENGTH IN QUESTION.
5. USE THE LAP LENGTH AS REQUIRED FOR THE SMALLER OF THE TWO REINFORCING BARS BEING SPLICED, SEE CONCRETE REINFORCING NOTES.

PLAN DOUBLE REINFORCING MAT

3303

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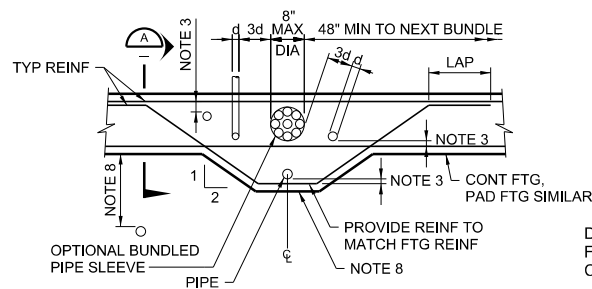


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CITY OF ROSEVILLE
WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)
ROSEVILLE, CALIFORNIA

GENERAL
STANDARD DETAILS 23

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NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-G042
SHEET NUMBER 38



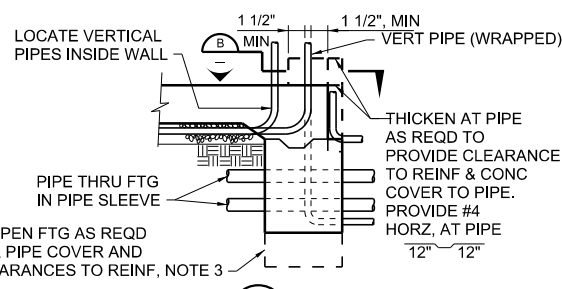
NOTES:

- PIPE = ANY PENETRATION THRU OR EMBEDDED IN FOUNDATION.
- ALL PIPES THROUGH FOOTINGS TO BE WRAPPED OR SLEEVED AS FOLLOWS:
 - SLEEVES: PROVIDE 1" MIN CLR ALL AROUND O.D. PIPE TO I.D. SLEEVE, UNO.
 - WRAPPED VERTICAL PIPES: PROVIDE 1/8" NOMINAL SHEET FOAM WITH (3) WRAPS MINIMUM, UNO.
 - WRAPPED HORIZONTAL PIPES: PROVIDE 1/8" NOMINAL SHEET FOAM WITH (8) WRAPS MINIMUM, UNO.
 - UNDERGROUND FIRE LINES 4" AND LARGER:
 - SLEEVES: PROVIDE 2" MIN CLEAR ALL AROUND O.D. PIPE TO I.D. SLEEVE
 - WRAPPED: PROVIDE 1/8" NOMINAL SHEET FOAM WITH (16) WRAPS MIN.
- WRAPPED & SLEEVED PIPES SHALL HAVE 1 1/2" MIN CLEAR TO REINF STEEL. MIN CONC COVER AT PIPES TO BE 3".
- CLEARANCE BETWEEN PIPES TO BE 3d MIN TYP. WITH A MAXIMUM OF (8) PIPES PER 48". GROUPS OF PIPES MAY BE BUNDLED AS SHOWN, EXCEPT IN PAD FOOTINGS.
- NO PIPE TO RUN PARALLEL IN FOOTINGS, STEM OR CURB.
- PVC CONDUIT (PIPE) EMBEDDED IN CURB/STEM MAY BE WIRED TIED TO HORIZ REINF.
- NO HORIZONTAL PIPES ALLOWED THROUGH FOOTING WITH 2'-0" EACH SIDE OF HOLD-DOWNS OR STEEL COLUMNS. NO VERTICAL PIPES ALLOWED IN FOOTINGS AT BRACED FRAMES.
- PROVIDE 18" MIN OF COMPACTED FILL ABOVE PIPES UP TO 12" DIA, FOR LARGER PIPES INCREASE COMPACTED FILL DEPTH 1'-0" FOR EACH 6" INCREASE IN PIPE DIAMETER. OTHERWISE DEEPEN THE FOOTING AS SHOWN.

PIPES THRU FOOTINGS

NTS

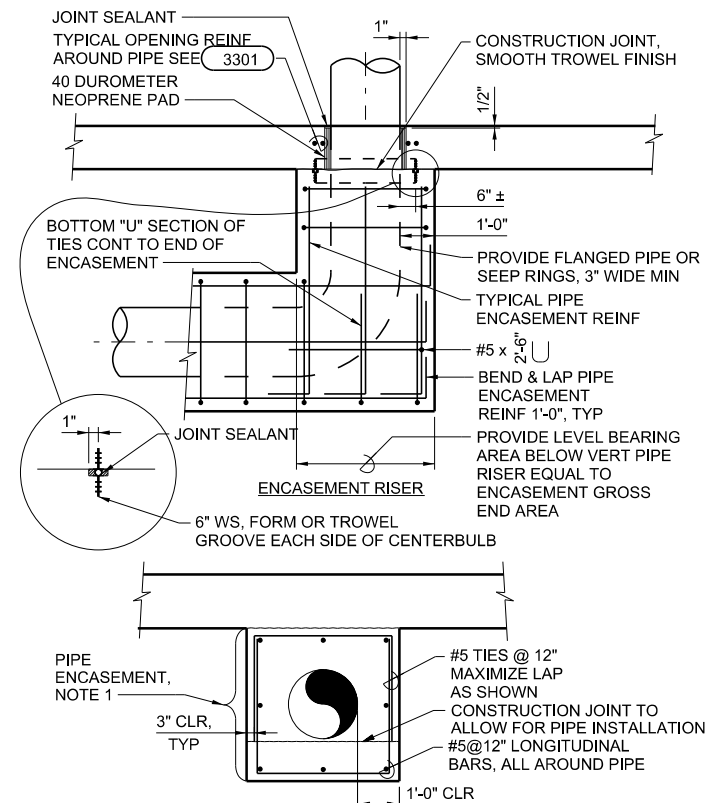
3305



GENERAL PIPE ENCASEMENT

NTS

3311



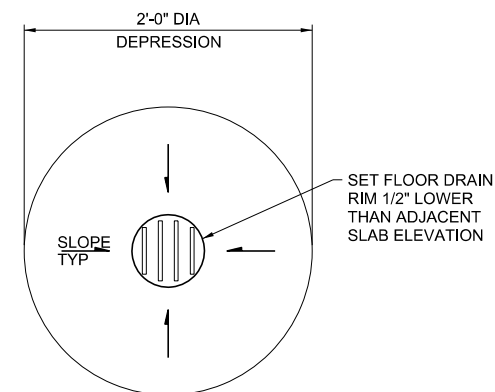
NOTES:

- EXTEND PIPE ENCASEMENT TO BOTTOM OF SLAB IF BOTTOM OF SLAB IS WITHIN 1-FOOT OF TOP OF PIPE ENCASEMENT. OTHERWISE, PROVIDE ENCASEMENT ONLY WITH ENCASEMENT RISER WHERE PIPE PENETRATES SLAB.

PIPE ENCASEMENT

NTS

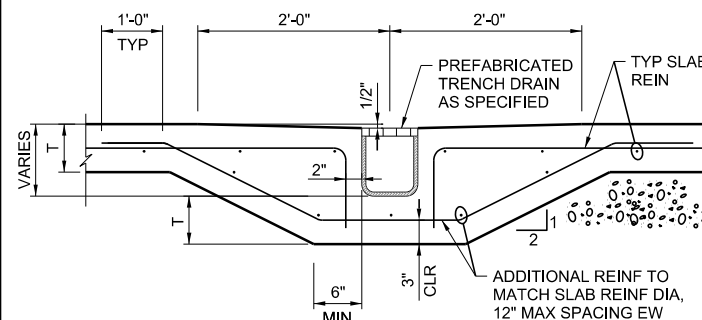
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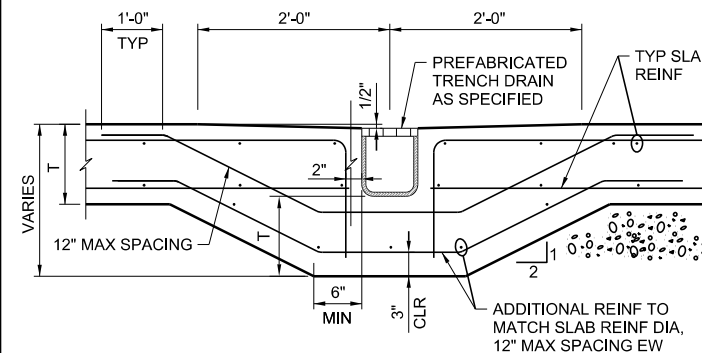
FLOOR DRAIN

NTS

3600



SLAB WITH SINGLE MAT REINFORCING

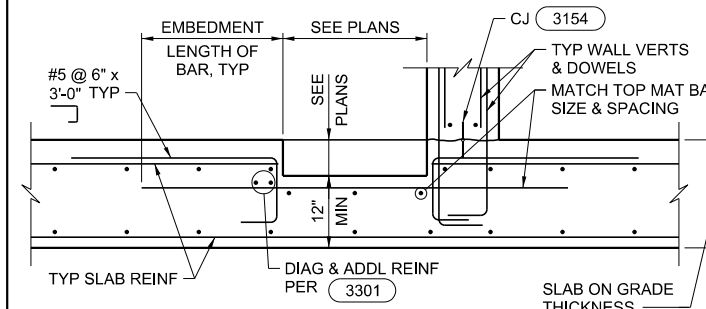


SLAB WITH DOUBLE MAT REINFORCING

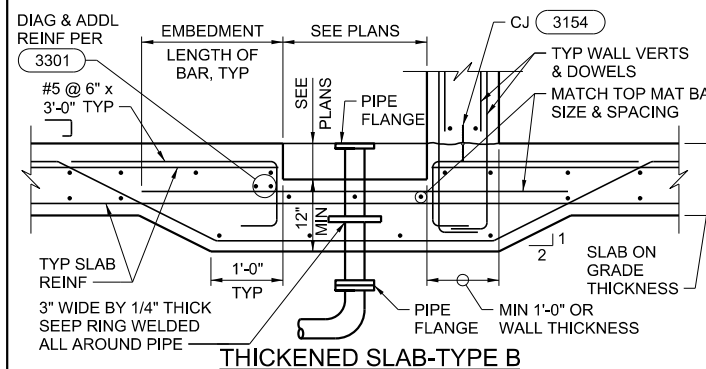
THICKENED SLAB AT TRENCH DRAIN

NTS

3601



TYPICAL SLAB-TYPE A



THICKENED SLAB-TYPE B

NOTES:

- REBAR LOCATION SHALL ACCOMMODATE GRATING CONNECTIONS WHERE REQUIRED. SEE DETAIL 5400.

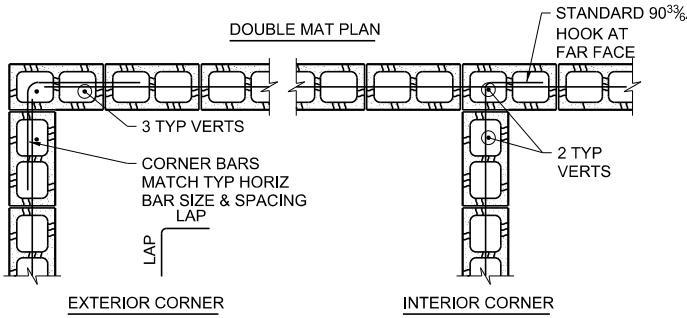
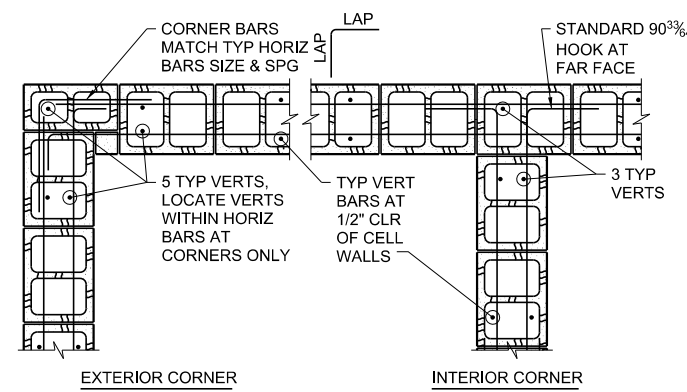
IN-SLAB SUMP REINFORCING

NTS

3610

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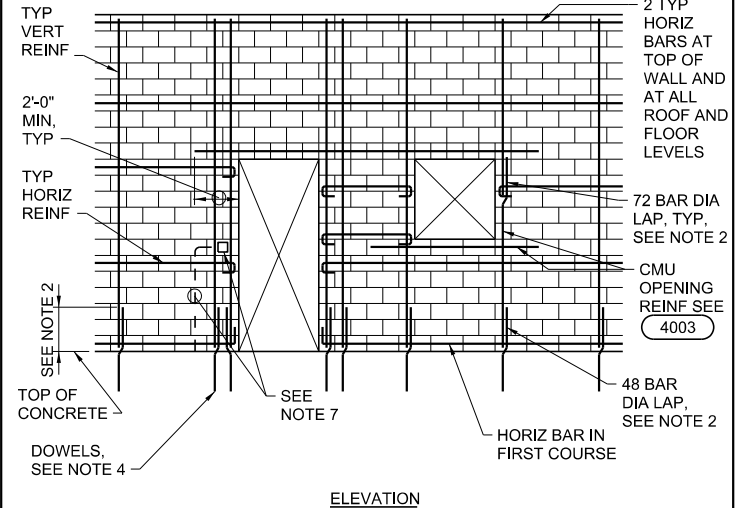
NOTES:

1. LAP=48 BAR DIAMETERS OR 2'-0" MINIMUM UNLESS OTHERWISE NOTED.
2. PROVIDE A STANDARD 90° HOOK EACH END ON ANY HORIZONTAL BAR BETWEEN OPENINGS, CONTROL JOINTS, OR CORNERS LESS THAN 6'-0" IN LENGTH.

CMU WALL CORNERS

NTS

4001



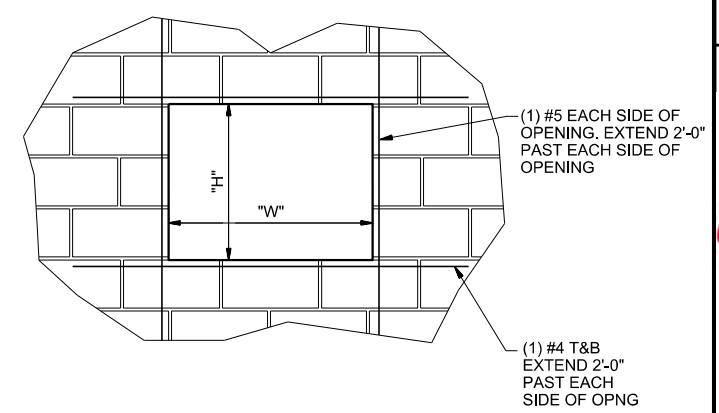
NOTES:

1. FOR TYPICAL WALL REINFORCING, SEE WALL SECTIONS AND DETAILS FOR EACH FACILITY.
2. LAP VERTICAL REINFORCING WITH WALL DOWELS 48 BAR DIAMETERS (2'-0" MIN), LAP ALL OTHER VERTICAL BARS 72 BAR DIAMETERS.
3. STAGGER SPLICES IN ADJACENT HORIZONTAL BARS IN THE SAME COURSE BY 2'-0".
4. PROVIDE DOWEL BARS IN FOUNDATION TO MATCH ALL VERTICAL REINFORCING.
5. FOR ADDED REINFORCING AT WALL INTERSECTIONS AND CORNERS, SEE 4001
6. SOLID GROUT ALL CMU WALLS UNLESS NOTED OTHERWISE.
7. DO NOT PLACE VERTICAL CONDUIT IN THE SAME CELL AS VERTICAL REINFORCING.

REINFORCED CMU WALL

NTS

4002



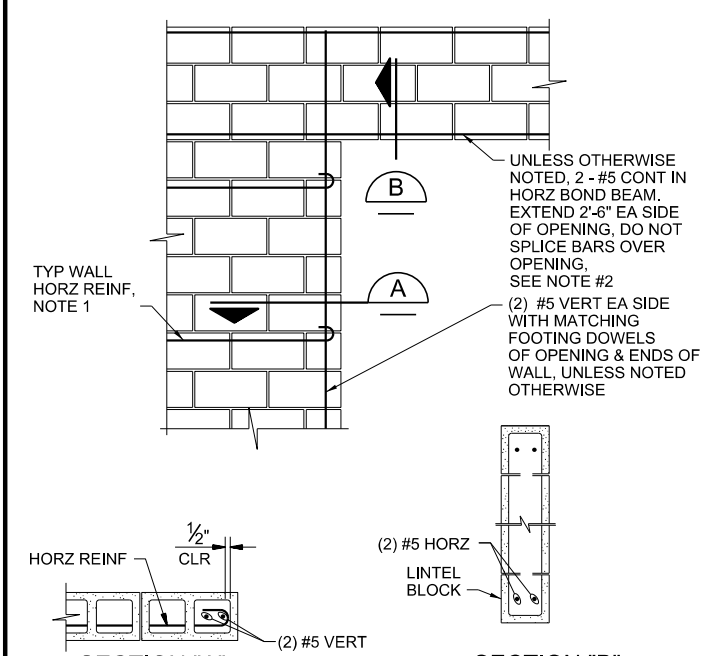
NOTES:

1. THIS DETAIL APPLICABLE WHERE OPNG LESS THEN 3'-0" IN ANY DIMENSION. SEE DETAIL 4004 FOR LARGER OPENINGS.
2. TERMINATE HORZ REINF WITH 180° HOOK AT WALL ENDS AND CMU CONTROL JOINTS PER DETAIL.

CMU OPENINGS LESS THAN 3'-0"

NTS

4003



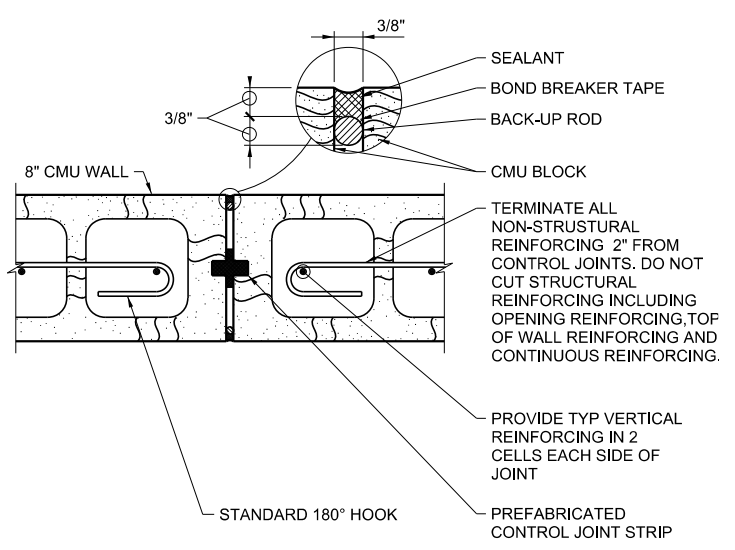
NOTES:

1. TERMINATE HORZ REINF WITH 180° HOOK AT WALL ENDS, JAMB OPENINGS AND CMU CONTROL JOINTS.
2. PLACE (2) #5 HORZ AT WINDOW SILLS, SIM TO TOP OF OPENING.

CMU OPENINGS GREATER THAN 3'-0"

NTS

4004



NOTE:

12" CMU WALL WITH 2 LAYERS OF REINFORCING IS SIMILAR.

CMU CONTROL JOINT

NTS

4100

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DESIGNED	J KELLOGG
DRAWN	J MARTIN
CHECKED	S KADER
APPROVED	M FISHER



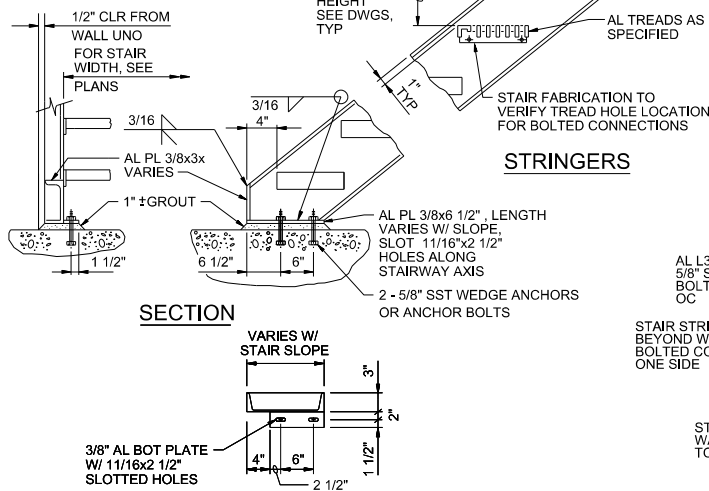
CITY OF ROSEVILLE
WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)
ROSEVILLE, CALIFORNIA

GENERAL
STANDARD DETAILS 25

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SHEET NUMBER	40

STAIRWAY WIDTH	BEARING BARS
2'-3" OR LESS	1"x3/16"
2'-9" OR LESS	1 1/4"x3/16"
3'-5" OR LESS	1 1/2"x3/16"
4'-2" OR LESS	1 3/4"x3/16"

- NOTES:
1. PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE AS SPECIFIED.
 2. GRIND EXPOSED FACES ONLY.
 3. STAIR HANDRAIL NOT SHOWN FOR CLARITY, PROVIDE STAIR HANDRAIL BOTH SIDES.
 4. FABRICATOR TO COORDINATE BOLTED TREADS AND RAIL POST CONNECTIONS

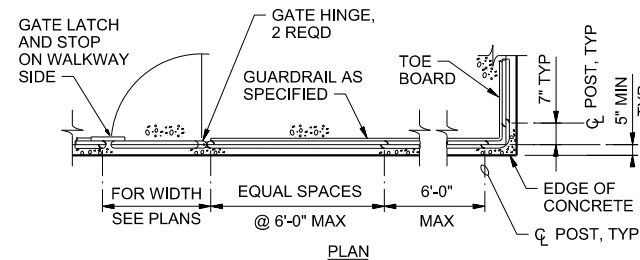


PLAN
BOTTOM

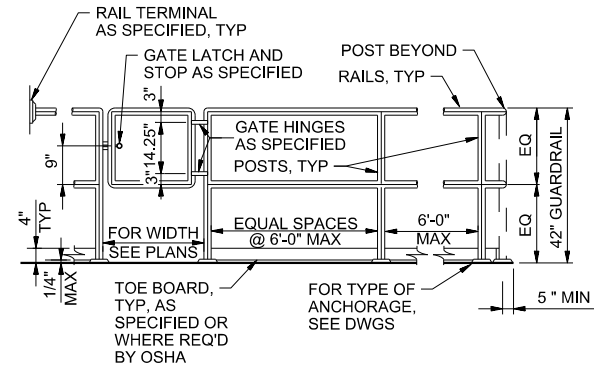
ALUMINUM STAIRS

NTS

5100



PLAN



ELEVATION

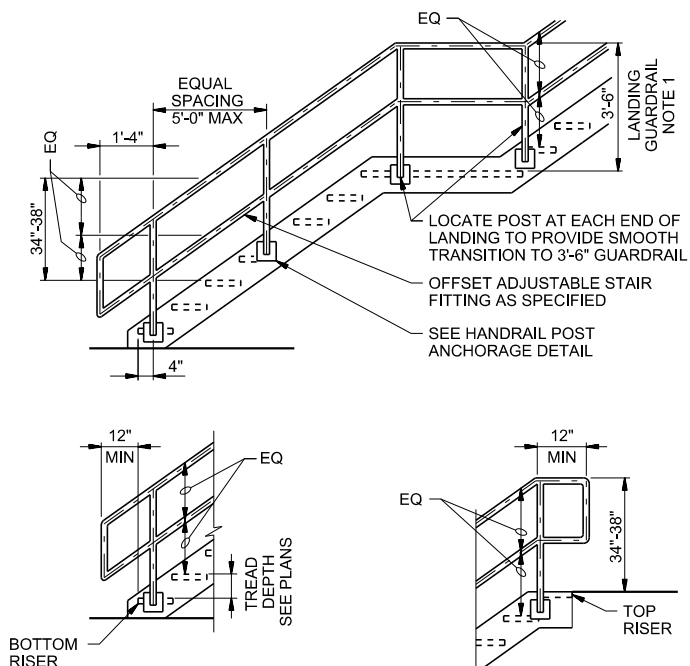
NOTE:

1. FOR GUARDRAIL MATERIAL REFERENCE DRAWINGS AND/OR JOB SPECIFICATIONS

TWO-RAIL GUARDRAIL

NTS

5200A



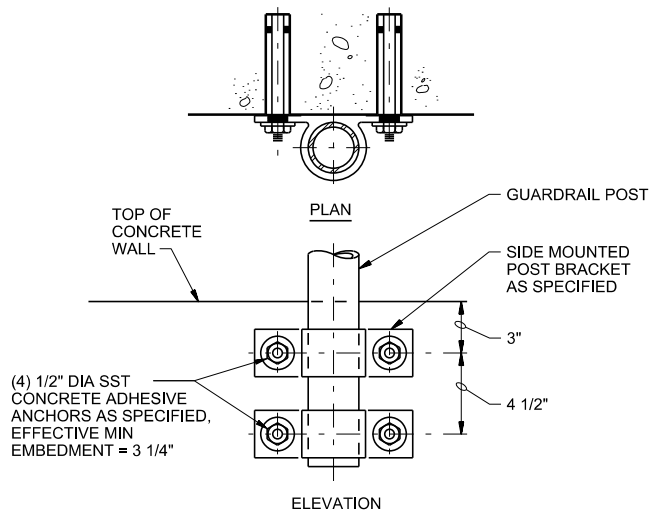
NOTES:

1. SEE TYPICAL GUARDRAIL DETAIL (5200A).
2. SEE SPECIFICATIONS FOR HANDRAIL MATERIAL.

TWO-RAIL HANDRAIL AT STAIRS

NTS

5201A



ELEVATION

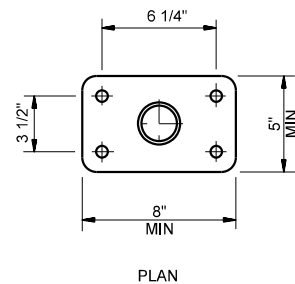
NOTES:

1. PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE PER SPECIFICATIONS.
2. USE SIDE MOUNTED POST BRACKET AS A TEMPLATE FOR THE ANCHOR BOLTS.
3. MAINTAIN THE CLEARANCES BETWEEN THE TOE BOARD AND THE CONCRETE SURFACES REQUIRED BY ALL STATE AND FEDERAL SAFETY REQUIREMENTS.

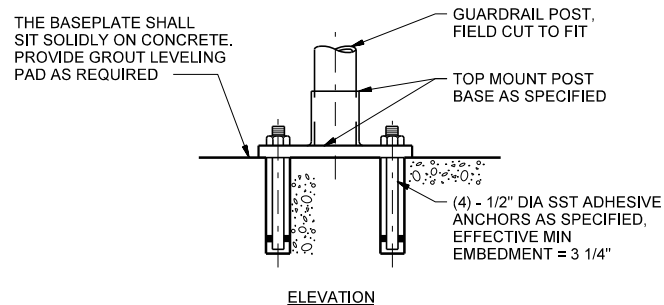
GUARDRAIL POST ANCHORAGE-ALUMINUM

NTS

5250B



PLAN



ELEVATION

NOTES:

1. PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE PER SPECIFICATIONS.

GUARDRAIL POST ANCHORAGE-TYPE C

NTS

5250C

DESIGNED	J KELLOGG
DRAWN	J MARTIN
CHECKED	S KADER
APPROVED	M FISHER



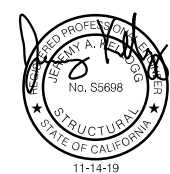
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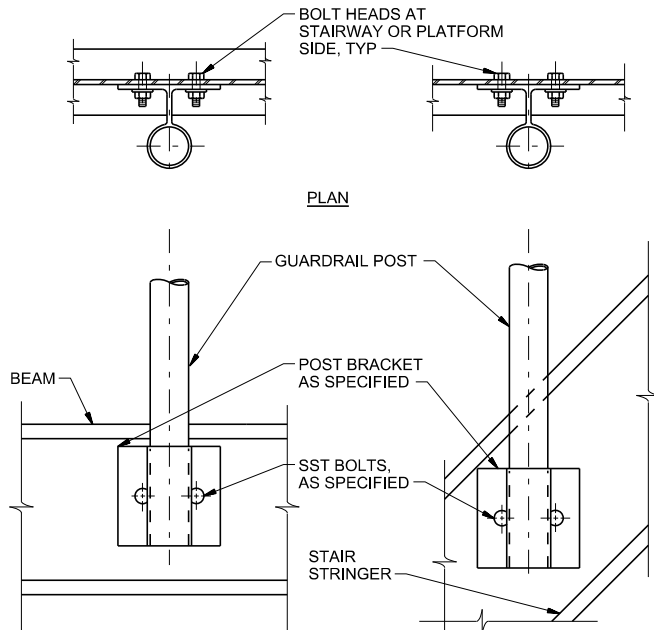
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

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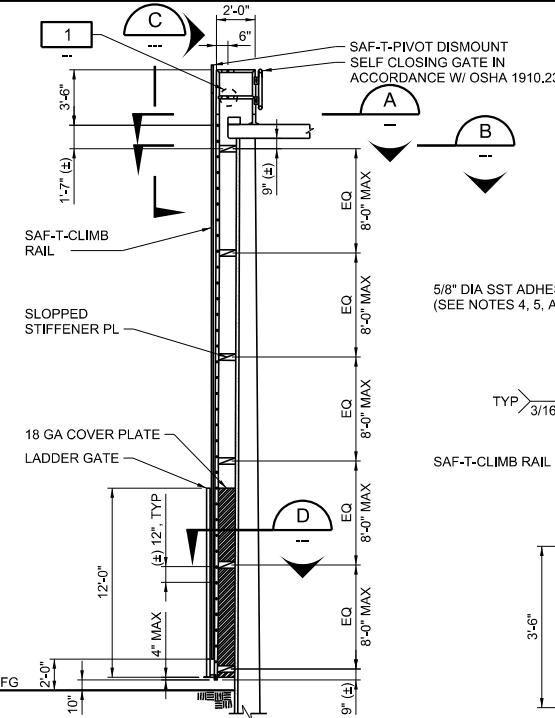
DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD00-G-045
SHEET NUMBER	41



- NOTES:**
1. PROVIDE PROTECTION FOR DISSIMILAR METALS AND CONCRETE PER SPECIFICATIONS.
 2. HANDRAIL POST ANCHORAGE TO ALSO BE USED FOR GUARDRAIL POST ANCHORAGE.
 3. REFERENCE DRAWINGS AND OR SPECIFICATIONS FOR MATERIALS.

GUARDRAIL POST ANCHORAGE-TYPE D

5250D

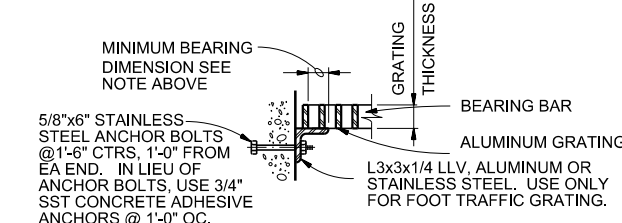
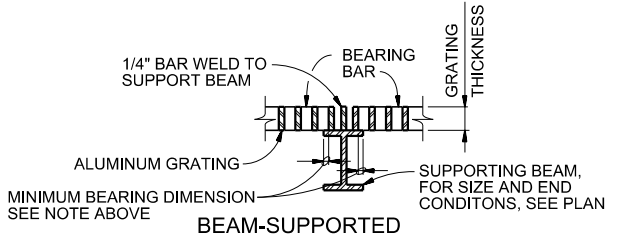
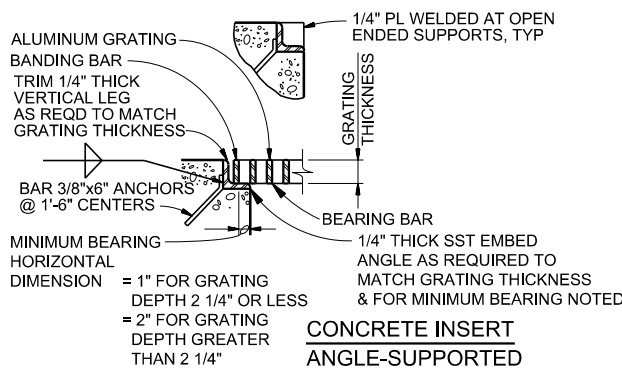


- EXTERIOR LADDER NOTES:**
1. ALL LADDER MATERIALS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. ALL MATERIALS FOR SAF-T-CLIMB TO BE SST 304.
 2. LADDER RUNGS TO BE SOLID BARS.
 3. ALL WELDS TO BE 3/16" MINIMUM.
 4. USE SST 316 FOR ALL BOLTS UNLESS SHOWN OTHERWISE.
 5. WHERE SST BOLTS ARE IN CONTACT WITH DISSIMILAR METALS, USE INSULATING SLEEVES AND PHENOLIC WASHERS TO ELECTRICALLY ISOLATE THE BOLTS.
 6. WHERE SST BOLTS ARE PLACED IN THE WALL EXTERIOR, DRILL AND PLACE AFTER WRAPPING AND BEFORE SHOTCRETING. TAKE EXTREME CARE TO AVOID DAMAGING PRESTRESSING. PLACE A STEEL PIPE AROUND THE DRILL BIT TO KEEP BIT FROM COMING IN CONTACT WITH THE PRESTRESSING. INSTALL BOLTS BEFORE SHOTCRETING. LOCATE TO AVOID VERTICAL THREADBARS.

EXTERIOR TANK LADDER

NTS

5301B



ALUMINUM GRATING

NTS

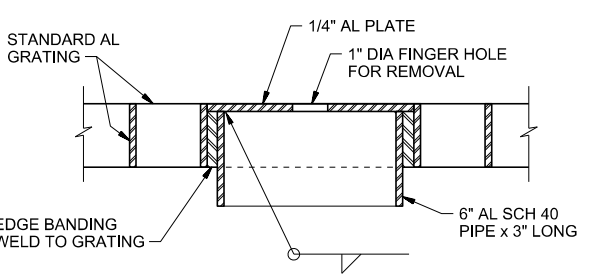
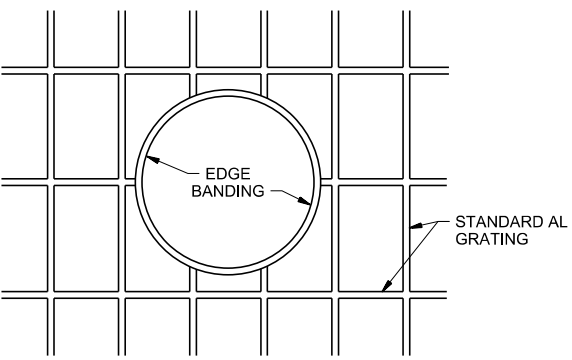
5400

GRATING NOTES

1. EXTEND GRATING CONTINUOUSLY OVER GATE GUIDES AND GATES.
2. NOTCH GRATING SUPPORTS AT GATES AS REQUIRED.
3. GRATING SPAN — SEE PLAN.
4. WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 3'-0" AND INDIVIDUAL SECTION WEIGHT SHALL NOT EXCEED 150 POUNDS.
5. SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.
6. MATERIAL FOR SUPPORTS OF ALUMINUM GRATING TO BE SAME AS GRATING. EXCEPT METAL SUPPORTS THAT ARE TO BE EMBEDDED IN CONCRETE SHALL BE TYPE 316 STAINLESS STEEL.
7. UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR APPLICABLE TRAFFIC.
8. BEARING BAR THICKNESS FOR GRATING TO BE 3/16" MINIMUM.
9. BAND ALL EDGES WITH 3/16 x DEPTH OF BEARING BAR.
10. PROVIDE MISCELLANEOUS GRATING FASTENERS AS REQUIRED.
11. THE HORIZONTAL CLEARANCE BETWEEN THE GRATING AND GRATING SUPPORTS SHALL NOT BE LESS THAN 1/4" NOR GREATER THAN 1/2" AND AS SPECIFIED.
12. ALL GRATING SECTIONS, WHEN IN PLACE, SHALL ALWAYS BE FIRMLY ANCHORED TO THEIR SUPPORTS AS SPECIFIED.
13. PROVIDE SUPPORT TYPE SHOWN IN DRAWINGS OR MOST APPLICABLE FOR THE INSTALLATION CONDITIONS.

FOOT TRAFFIC GRATING THICKNESS TABLE

MAXIMUM SPAN	ALUMINUM (IN.)
3'-6"	1 1/4"
4'-0"	1 1/2"
4'-6"	1 3/4"
5'-0"	1 3/4"
5'-6"	2"
6'-0"	2 1/4"
6'-6"	2 1/4"
7'-0"	2 1/2"



OPERATING NUT ACCESS HOLE

NTS

5405

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DESIGNED
J. KELLOGG

DRAWN
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CHECKED
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APPROVED
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WEST SIDE TANK AND
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(PHASE 2)

ROSEVILLE, CALIFORNIA

GENERAL

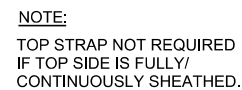
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DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-G-046

SHEET NUMBER
42



NTS

CONNECTION SHOWN FOR 4" OR NARROWER TUBE COLUMN

WT 3x8xAS REQD CONNECTION SIMILAR TO BEAM CONNECTION DETAIL

6" MIN TUBE WIDTH REQD FOR CLIP CONNECTION SHOWN

1/2" RETURN T & B, TYP

PL 3/8xAS REQD, NOTCH COLUMN TO RECEIVE PLATE, OFFSET SO BEAM CENTERED ON COLUMN CL

CLIP L 3x2x1/4 EA SIDE CONN SIMILAR TO BEAM CONNECTION DETAIL

1/4" CAP PL, SEAL WELD

END OF GUSSET PL FOR ONE SIDED CONNECTION

STEEL BEAM, SEE FRAMING PLANS

STEEL TUBE COLUMN, SEE FRAMING PLANS

3/4" BOLTS, SEE TYPICAL BEAM FRAMING CONNECTION DETAIL

1" RETURN T & B, SEE NOTE

NOTE:

BOLTED CONNECTION INDICATED TYPICAL. WELD CONNECTION ONLY AT COLUMNS OF BRACED FRAMES AND WHERE INDICATED ON PLANS.

NTS

NOTE:
FOR DETAIL 5814 CLOSURES, LOCATE ANCHORS SO THEY DO NOT
CONFLICT WITH LEDGER ANGLE.

NTS

PLAN

Labels for Plan view:

- SOLID GROUT CELL EACH SIDE OF BLOCKOUT
- STANDARD OVERSIZED HOLES
- 8" GA FOR BEAMS W/ FLANGE WIDTH < 5 1/2", 3 1/2" GA FOR BEAMS W/ FLANGE WIDTH > 5 1/2"
- CL WALL & BEARING
- 3/4" CLR
- 6"
- 6"
- 1/4"
- STEEL BEAM, SEE FRAMING PLANS

ELEVATION

Labels for Elevation view:

- FILL VOID AROUND BEAM W/ GROUT
- 2 - 3/4"x0"-10" ANCHOR BOLTS W/ LEVELING NUTS & 2 - HEAVY WASHERS
- 2"
- 2"
- NON-SHRINK GROUT
- MASONRY EXTERIOR BEARING WALL
- 8" BOND BEAM W/ 2 TYP HORIZONTAL BARS CONTINUOUS (#5 MIN) ABOVE AND BELOW BLOCKOUT (5'-4" MIN LENGTH CENTERED ON SINGLE BEAM SEAT)
- PL 3/4x4x10 1/2"
- BLOCKOUT DEPTH, SEE NOTE 1
- CONTINUE FACE SHELLS OF MASONRY ACROSS SEAT BLOCKOUT

NOTE:

NOTE: PROVIDE BLOCKOUT DEPTH AS REQUIRED FOR SETTING BEAMS, (BEAM DEPTH + 6") MIN, OR SET BEAMS BEFORE COMPLETING WALL ABOVE.

NTS

2 1/2"

SEE NOTE 4

3"

3"

1 1/4" MIN AT COPED BEAM FLANGE

4" MAX

DOUBLE ANGLES MIN 5/16" THICK, SIZE AS REQD BY AISC STD CONN

3/4" DIA A325N BOLTS

VARIABLES

NOMINAL BEAM DEPTH, INCHES	ROWS OF BOLTS	LENGTH (3) OF ANGLE
36	7	1'-8 1/2"
30-33	6	1'-5 1/2"
24-27	5	1'-2 1/2"
16-21	4	11 1/2"
12-15	3	8 1/2"
8-10	2	5 1/2"
6	1	3"
4	1	2 1/2"

NOTES:

1. NUMBER OF ROWS IS EQUAL TO NUMBER OF BOLTS TO ENCLOSED WEB.
2. ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED OTHERWISE ON FRAMING PLANS.
3. ADD 1 1/2 " TO ANGLE LENGTH FOR STAGGERED BOLT CONNECTIONS.
4. 3" DIMENSION TYP EXCEPT AS RECOMMENDED BY AISC FOR LARGER MEMBERS.

NTS

FILL VOID AROUND BEAM W/ GROUT

2 - 3/4"x0-10" ANCHOR BOLTS W/ LEVELING NUTS & 2 - HEAVY WASHERS

2"

2"

NON-SHRINK GROUT MASONRY EXTERIOR BEARING WALL

PLAN

CONTINUE FACE SHELLS OF MASONRY ACROSS SEAT BLOCKOUT

BLOCKOUT DEPTH, SEE NOTE 1

PL 3/4x4x10 1/2"

8" BOND BEAM W/ 2 TYP HORIZONTAL BARS CONTINUOUS (#5 MIN) ABOVE AND BELOW BLOCKOUT (5'-4" MIN LENGTH CENTERED ON SINGLE BEAM SEAT)

ELEVATION

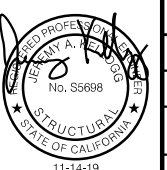
NOTE:

NOTE: PROVIDE BLOCKOUT DEPTH AS REQUIRED FOR SETTING BEAMS, (BEAM DEPTH + 6") MIN, OR SET BEAMS BEFORE COMPLETING WALL ABOVE.

NTS

5814

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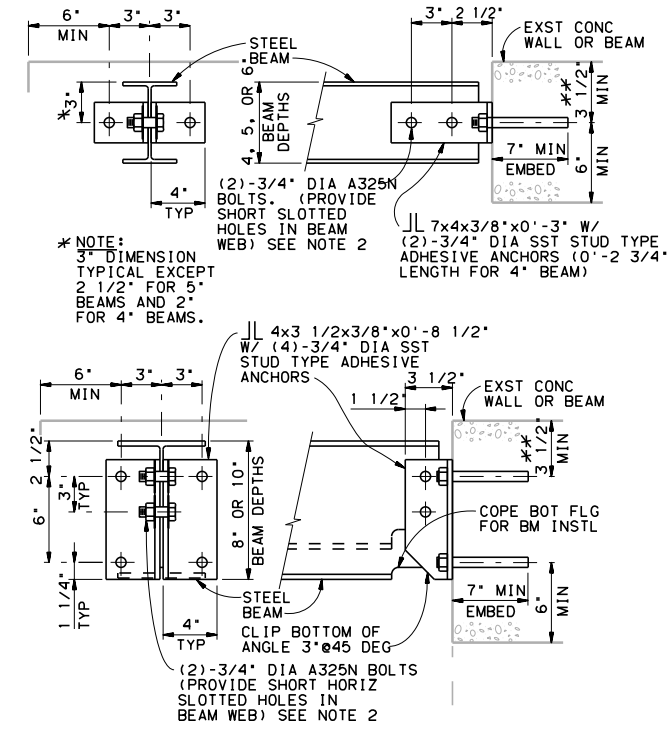


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WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)

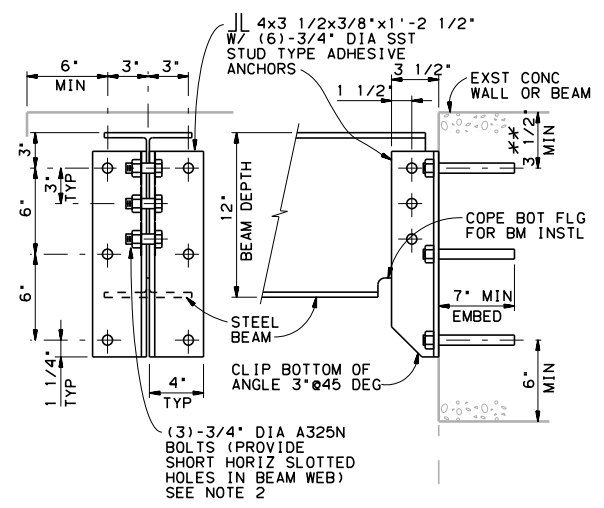
STANDARD DETAILS 28

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD00-G-047
SHEET NUMBER	43

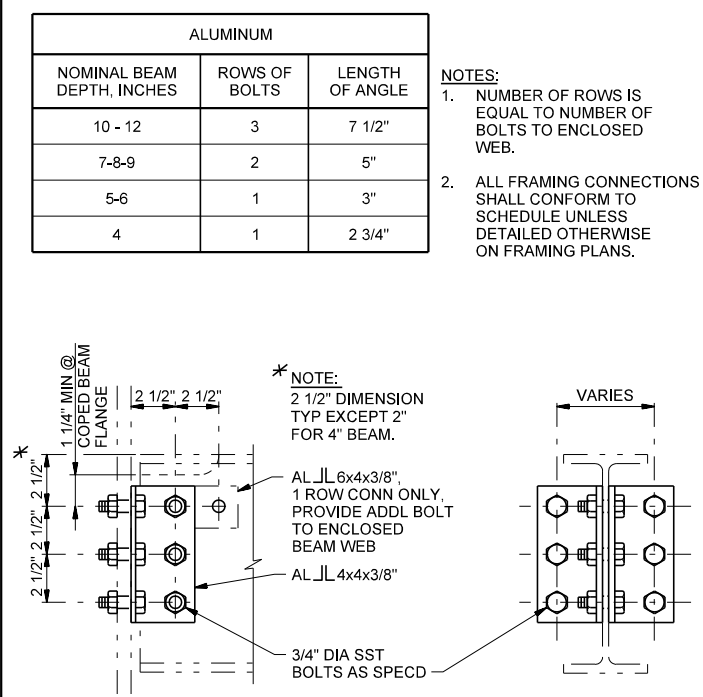


BEAM / WALL CONNECTION - STEEL
NTS

5826

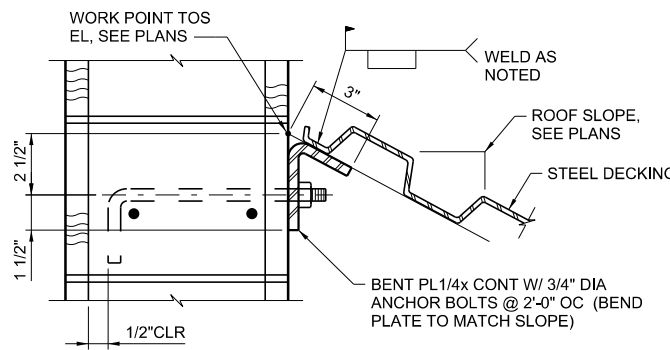


- NOTES:
- DO NOT CUT EXISTING CONCRETE BEAM TOP REINFORCING DURING DRILL-IN ANCHOR INSTALLATION. FIELD LOCATE BEAM REINFORCING PRIOR TO FABRICATION. ADD LENGTH TO CLIP ANGLES AS REQUIRED TO LOWER ANCHORS TO CLEAR REINFORCING WHILE MAINTAINING SPACING AND EDGE DISTANCE AS SHOWN.
 - AT ONE END ONLY, TIGHTEN SNUG TIGHT & BACK OFF 1/2 TURN AND DOUBLE NUT.

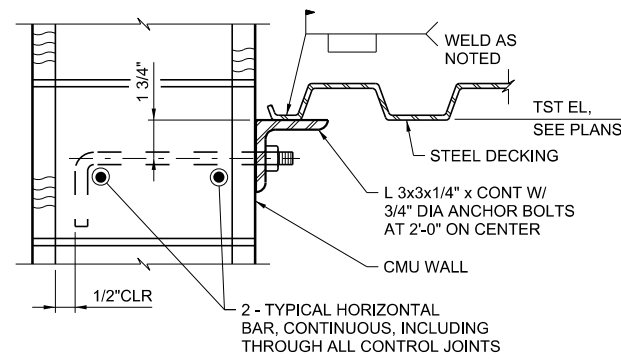


TYPICAL FRAMING
CONNECTION - ALUMINUM
NTS

5827



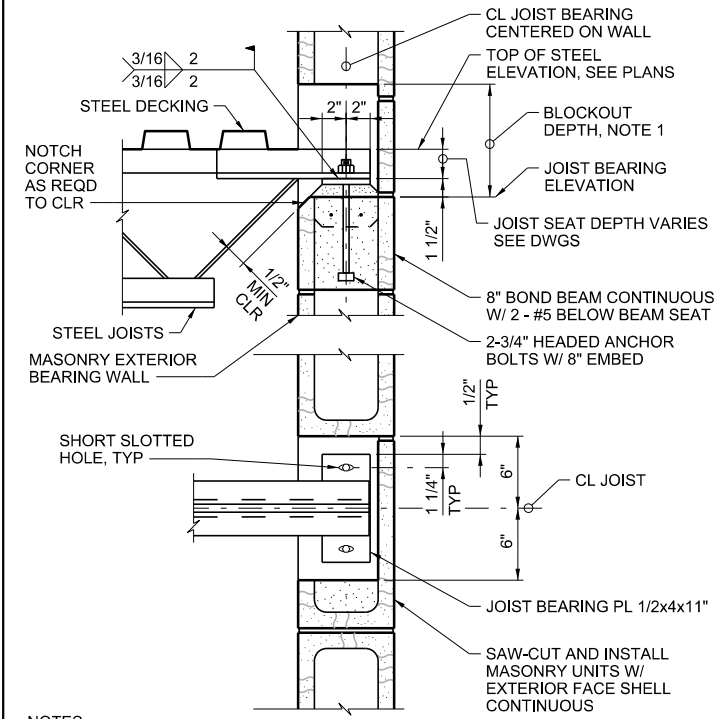
DECKING AT ANGLE TO WALL



DECKING LEDGER SUPPORT ANGLE

DECKING LEDGER SUPPORT ANGLE
NTS

5900



- NOTES:
- PROVIDE BLOCKOUT DEPTH AS REQUIRED FOR SETTING JOISTS, 8\"/>

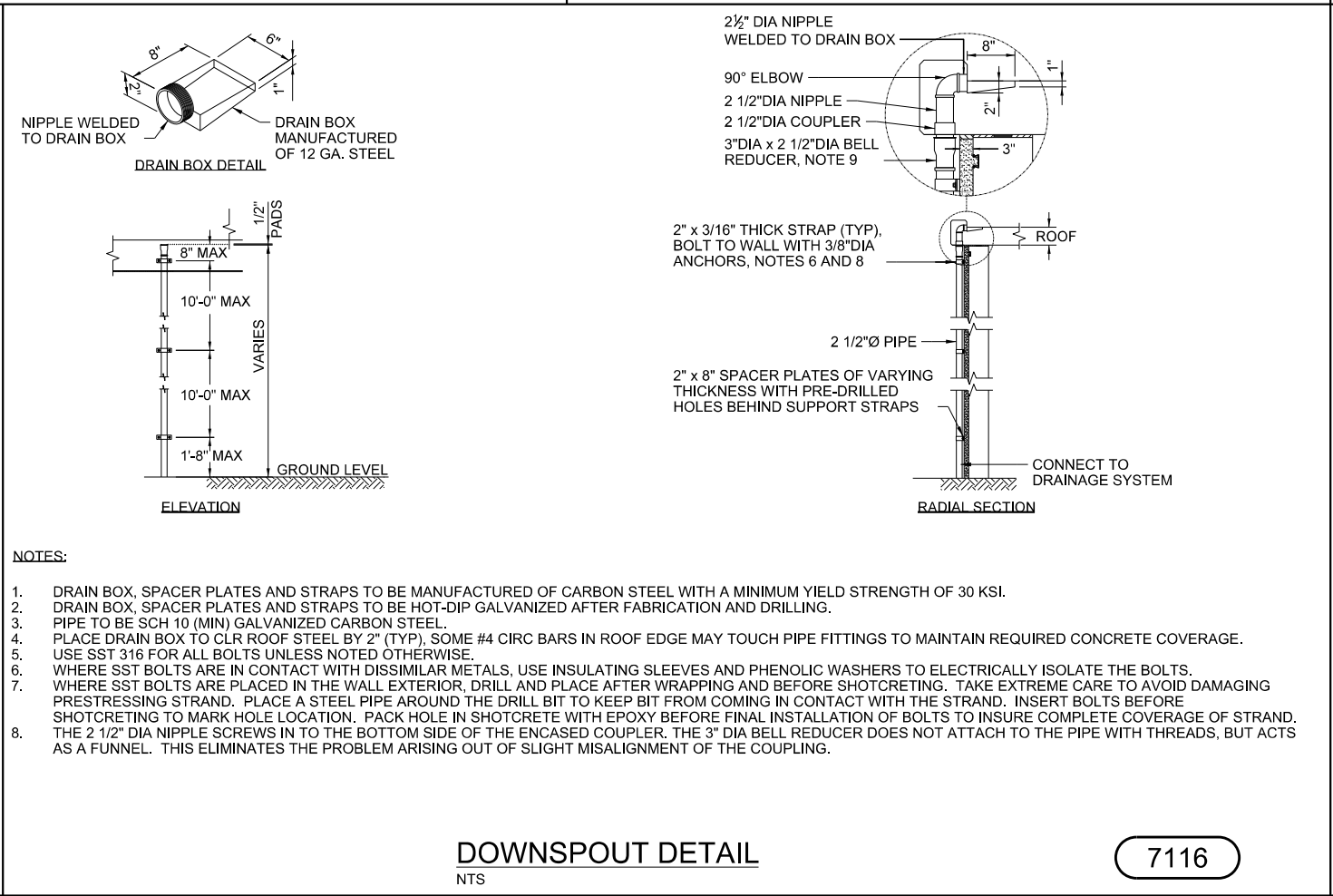
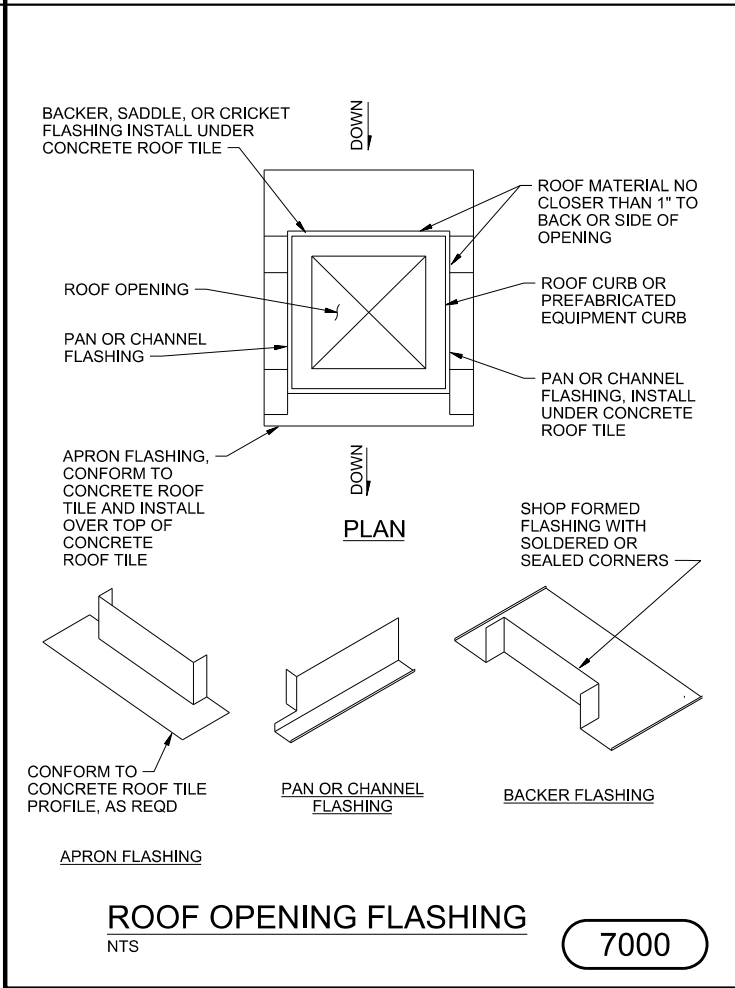
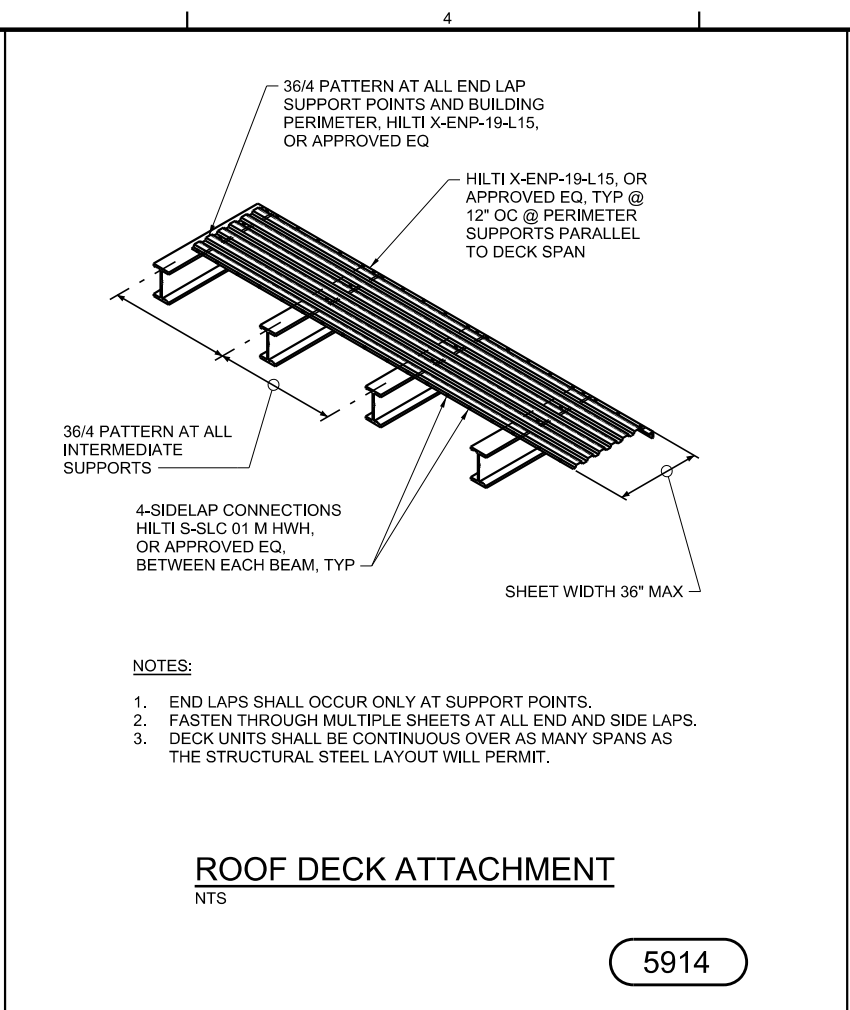
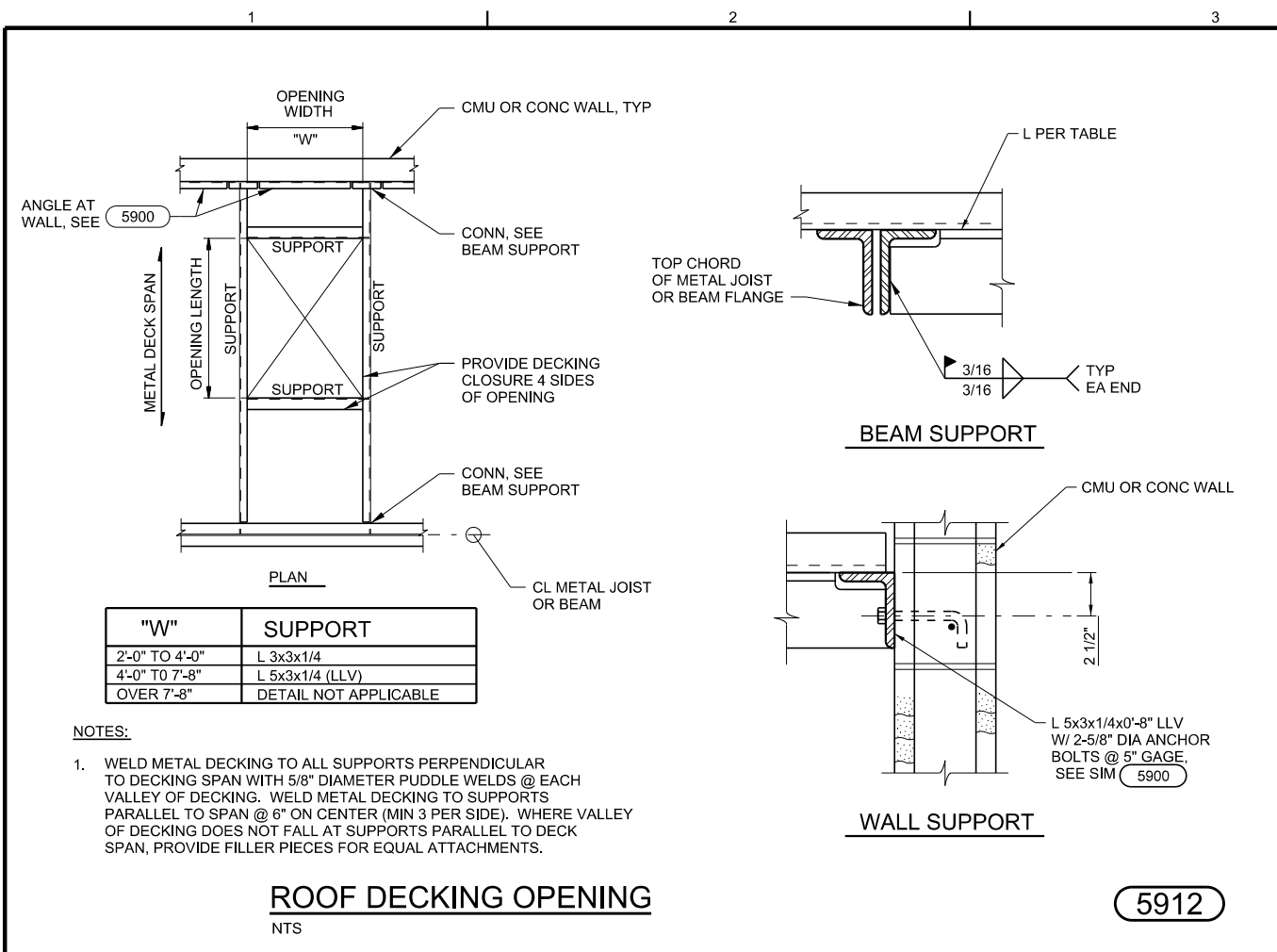
STEEL JOIST SEAT/EXTERIOR WALL
NTS

5907

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DESIGNED J KELLOGG	DRAWN J MARTIN	CHECKED S KADER	APPROVED M FISHER
WATERWORKS ENGINEERS 2280 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-765-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STANDARD DETAILS 29			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-G-048			
SHEET NUMBER 44			



DESIGNED
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M FISHER

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ENGINEERS

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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)

ROSEVILLE, CALIFORNIA

GENERAL

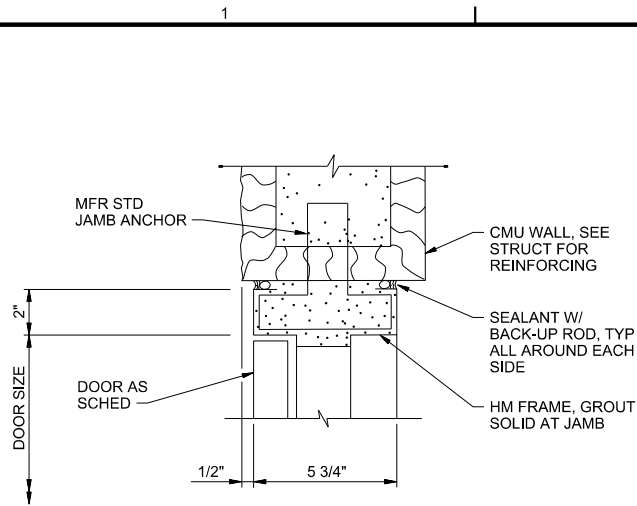
STANDARD DETAILS 30

DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-G-049

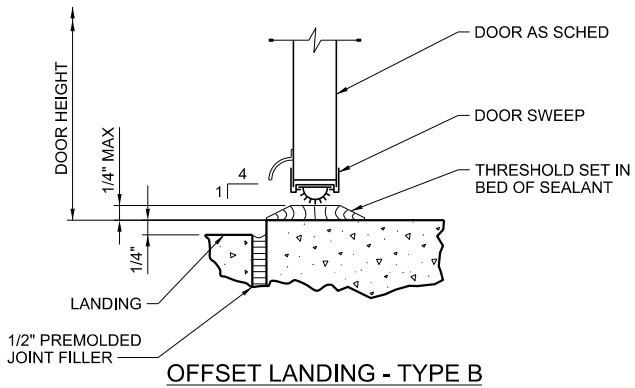
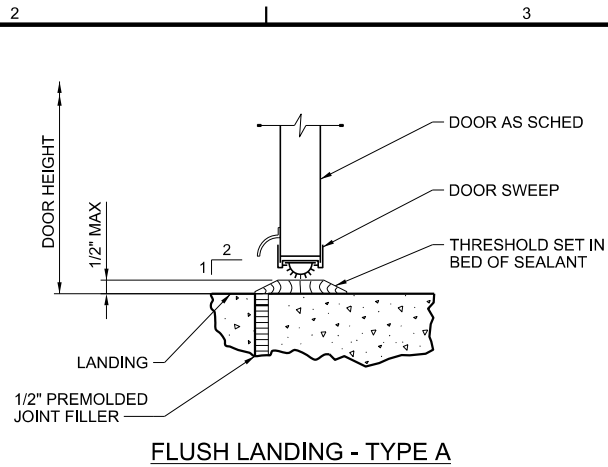
SHEET NUMBER 45



NOTE:
HEAD SIMILAR

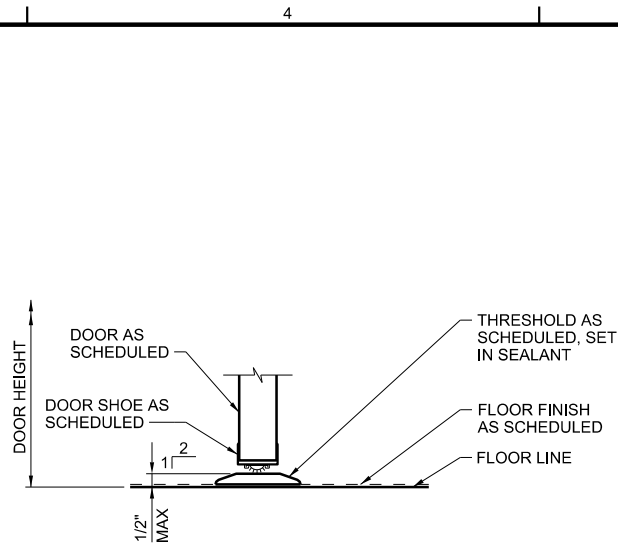
DOOR JAMB - 8" CMU
NTS

8100



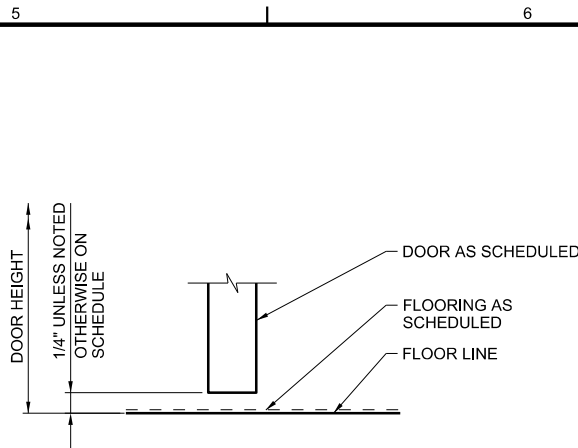
DOOR THRESHOLD
NTS

8110



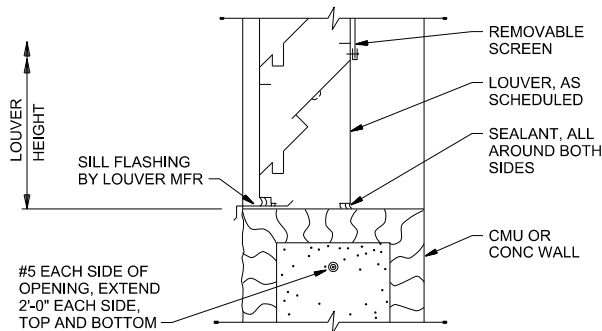
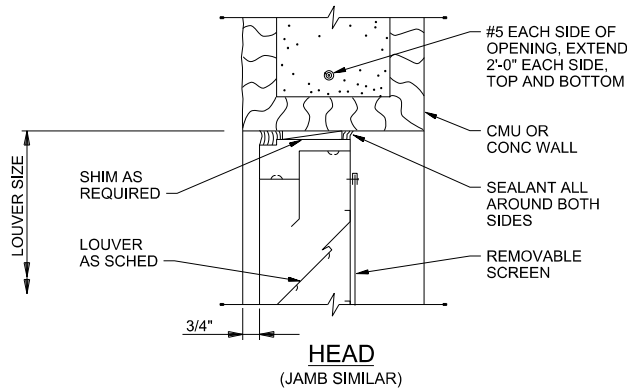
DOOR THRESHOLD
NTS

8111



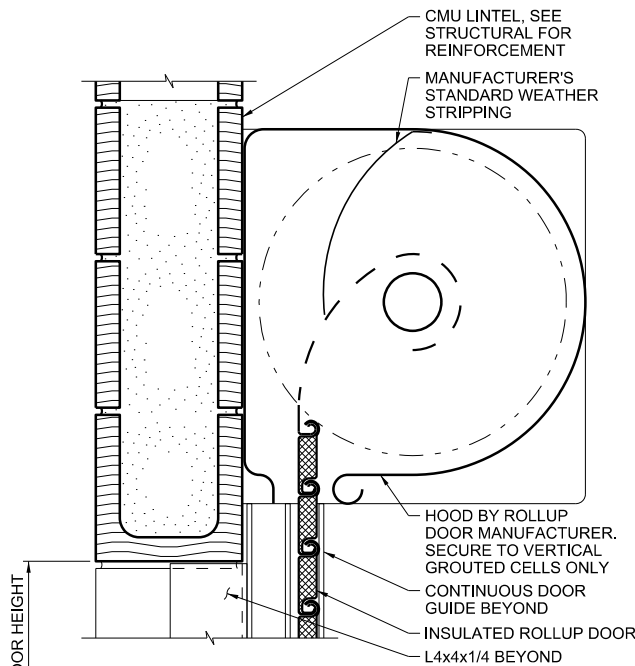
DOOR THRESHOLD
NTS

8112



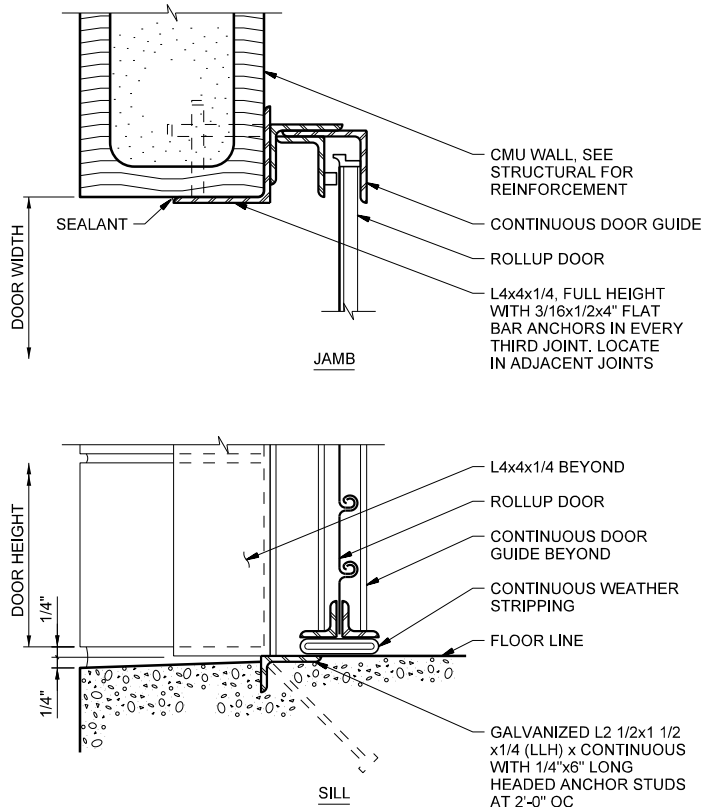
LOUVER
NTS

8115



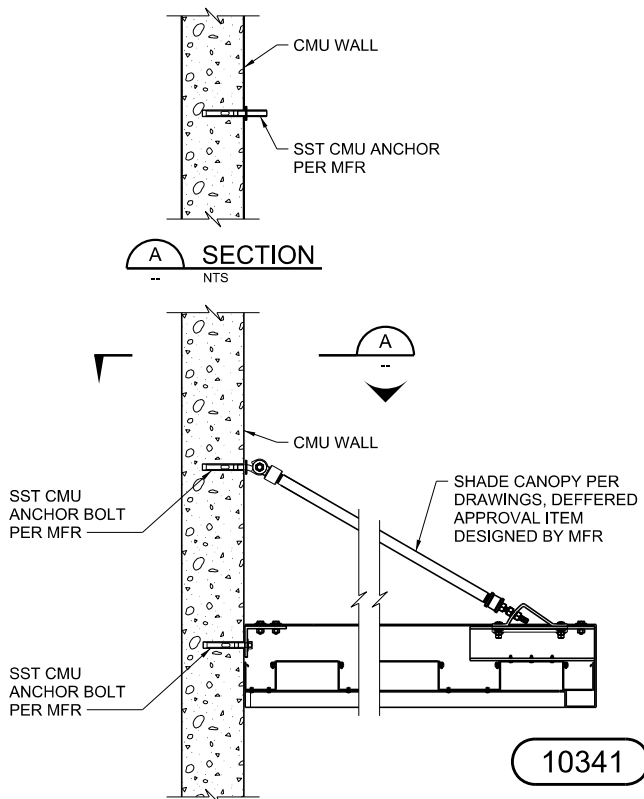
ROLLUP DOOR HEAD
NTS

8300



ROLLUP DOOR JAMB AND SILL
NTS

8301



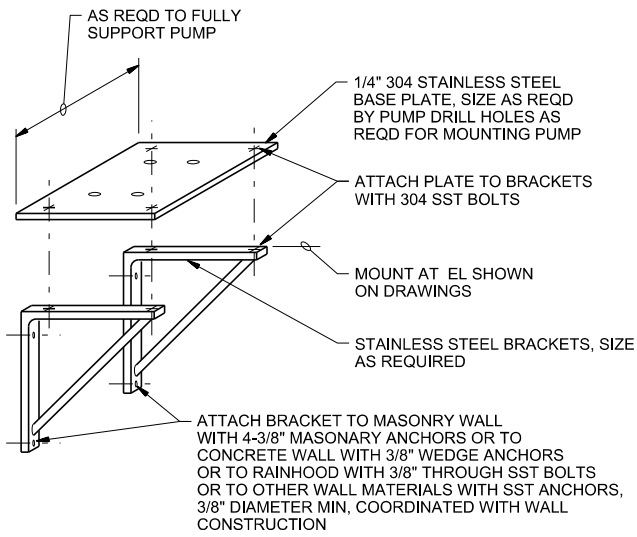
SUN SHADE CANOPY ATTACHMENT (CMU WALL)
NTS

10341

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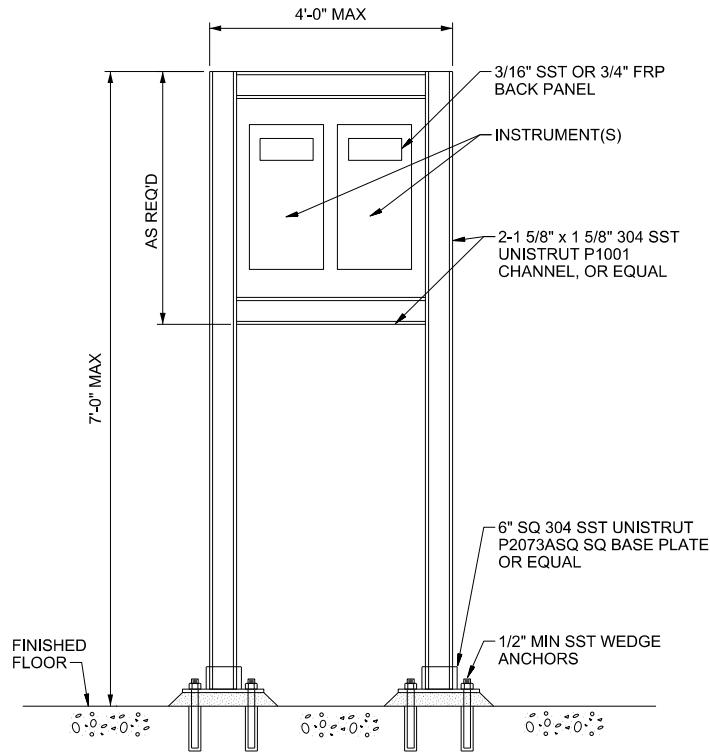


DESIGNED J KELLOGG	DRAWN J MARTIN	CHECKED S KADER	APPROVED M FISHER
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WATERWORKS ENGINEERS 2280 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-785-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STANDARD DETAILS 31			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-G-050			
SHEET NUMBER 46			



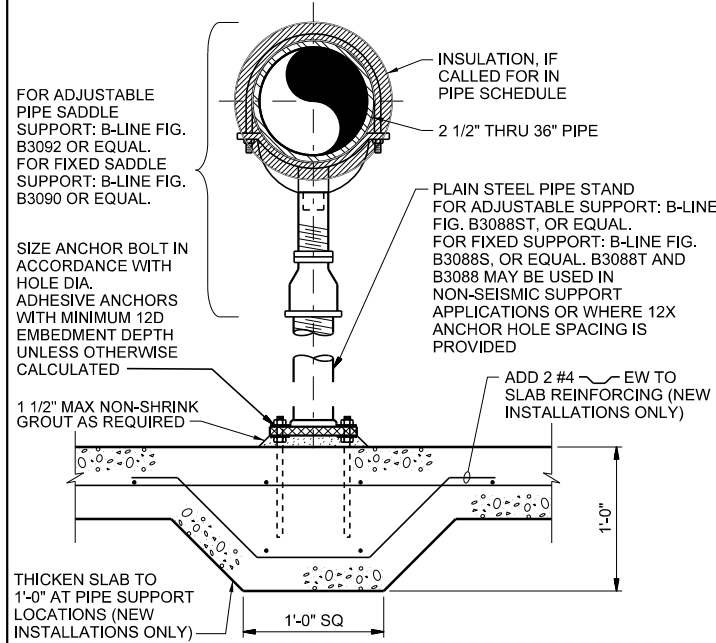
SMALL PUMP SUPPORT
NTS

11900



DOUBLE CHANNEL SUPPORT FOR INSTRUMENTS
NTS

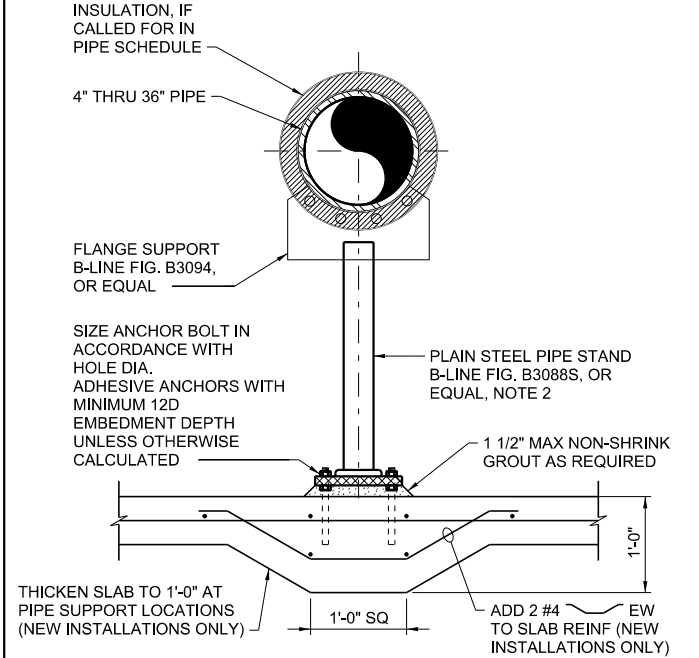
13301



- NOTES:**
1. COAT ALL SHAPES PER SPECIFICATION SECTION 09900 SYSTEM 300.
 2. ADJUSTABLE OR FIXED SUPPORT INSTALLATION AT CONTRACTOR'S DISCRETION, UNLESS SHOWN OTHERWISE.

SADDLE PIPE SUPPORT
NTS

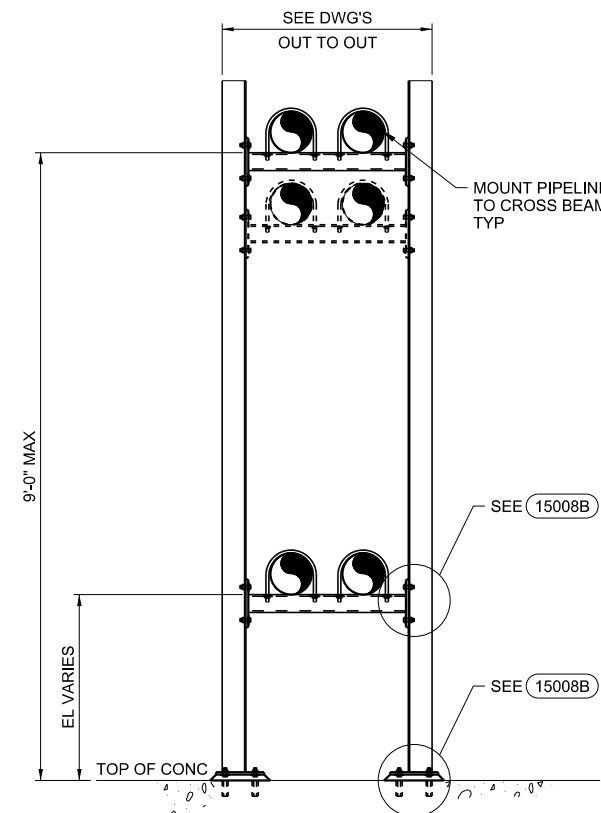
15000



- NOTES:**
1. COAT ALL SHAPES PER SPECIFICATION SECTION 09900 SYSTEM 300.
 2. B-LINE FIG. B3088 MAY BE USED IN NON-SEISMIC SUPPORT APPLICATIONS OR WHERE 12X ANCHOR HOLE SPACING IS PROVIDED. FOR VERTICAL ADJUSTMENTS USE PIPE ADJUSTER B-LINE FIG. B3089 AND FIG. B3088ST OR FIG. B3088T IN NON-SEISMIC SUPPORT APPLICATIONS.

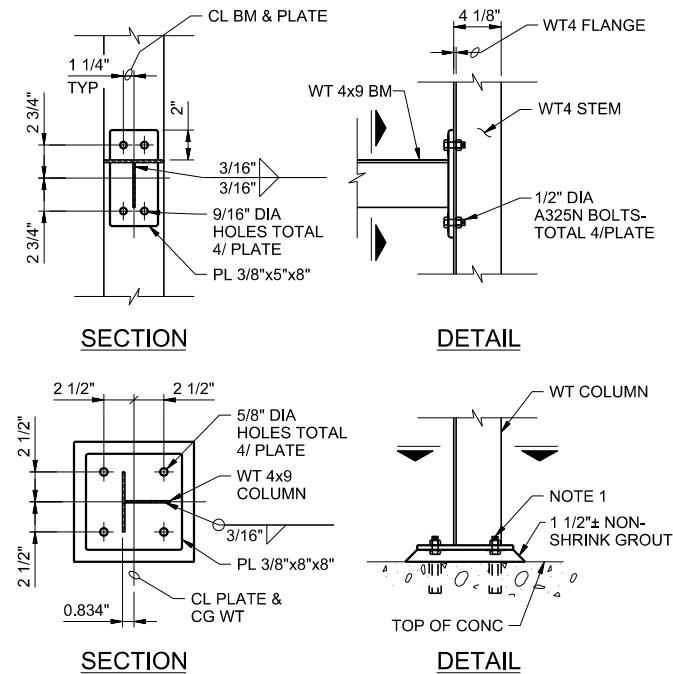
FLANGE MOUNTED PIPE SUPPORT
NTS

15002



FIXED PIPE SUPPORT RACK
NTS

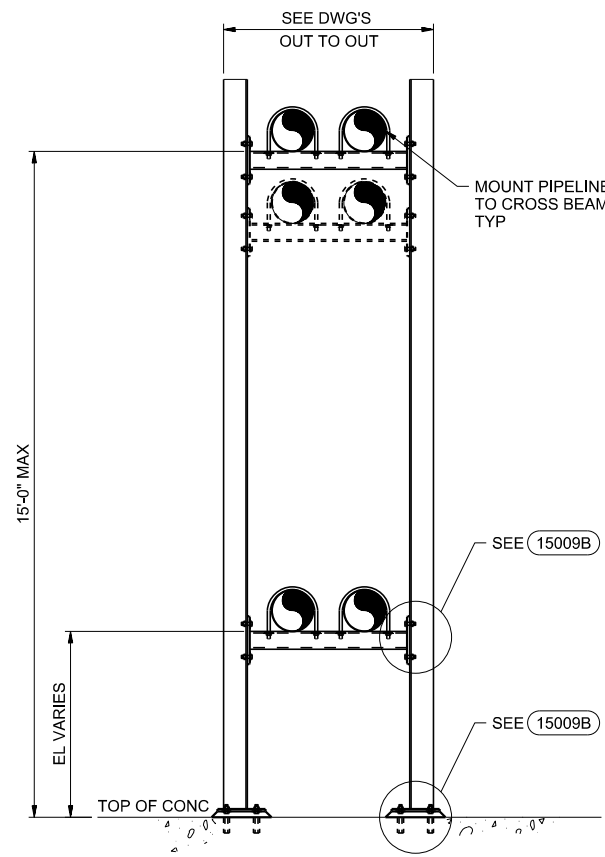
15008A



- NOTE:**
1. 1/2\"/>
 2. ALL SHAPES TO BE MADE OF STEEL AND COATED PER SPECIFICATIONS SECTION 09900.

FIXED PIPE SUPPORT RACK SECTIONS AND DETAILS
NTS

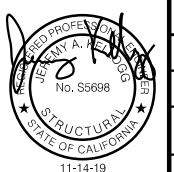
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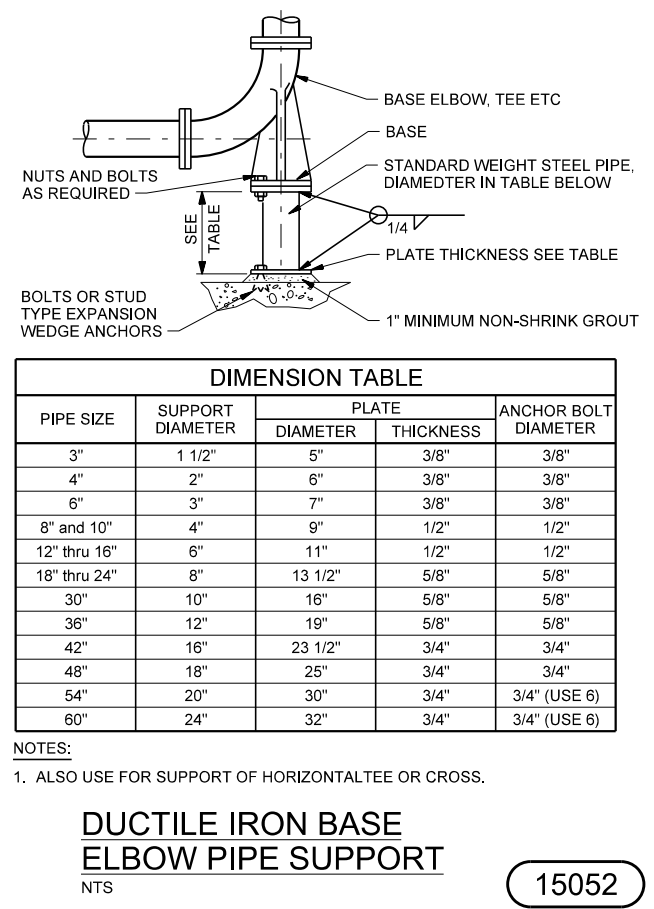
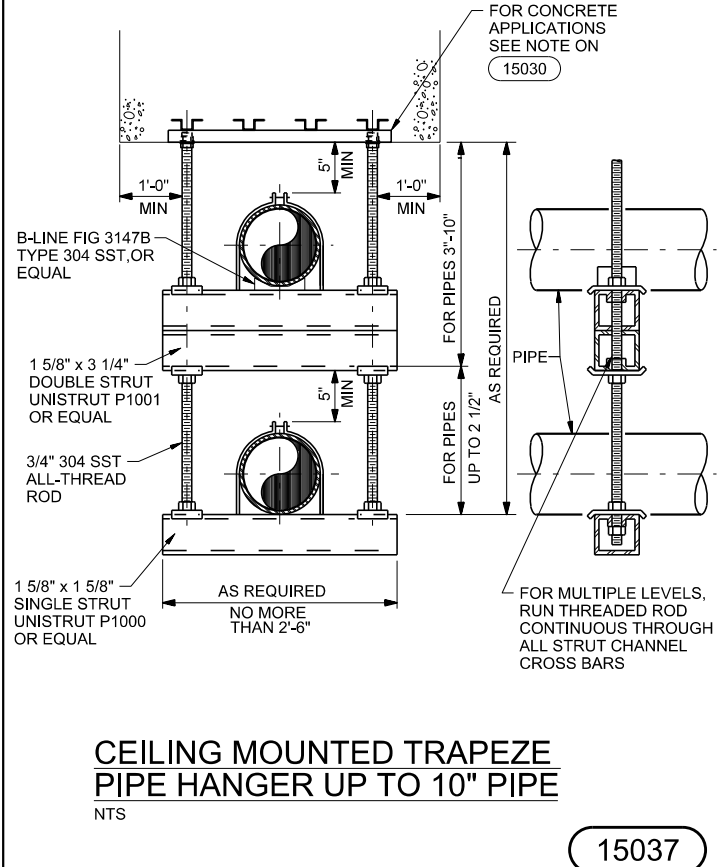
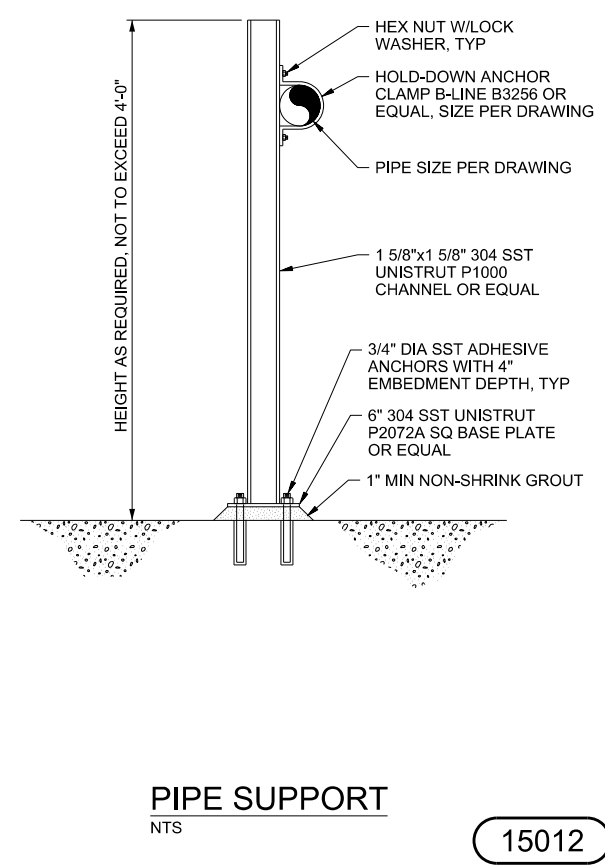
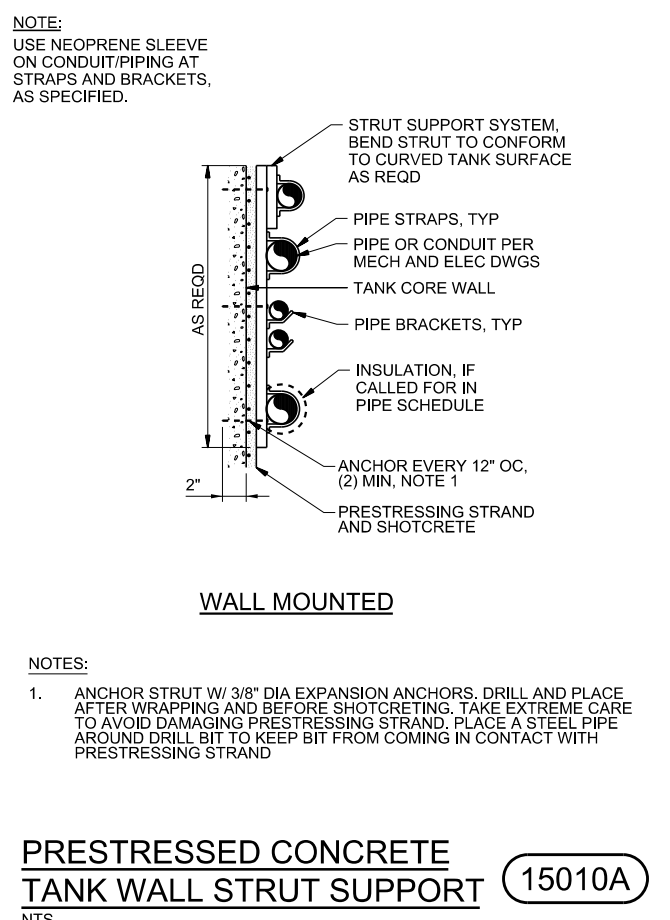
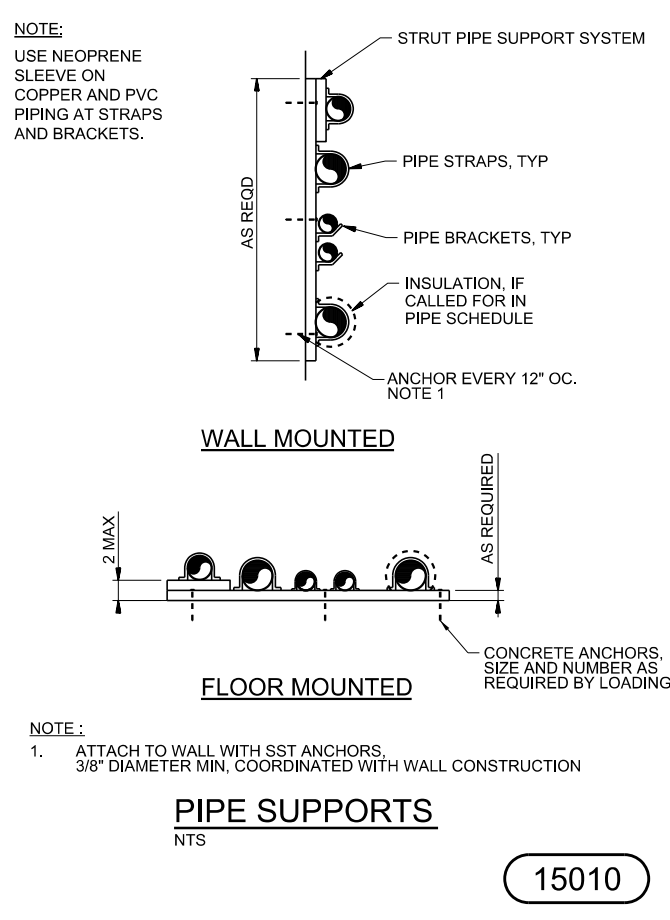
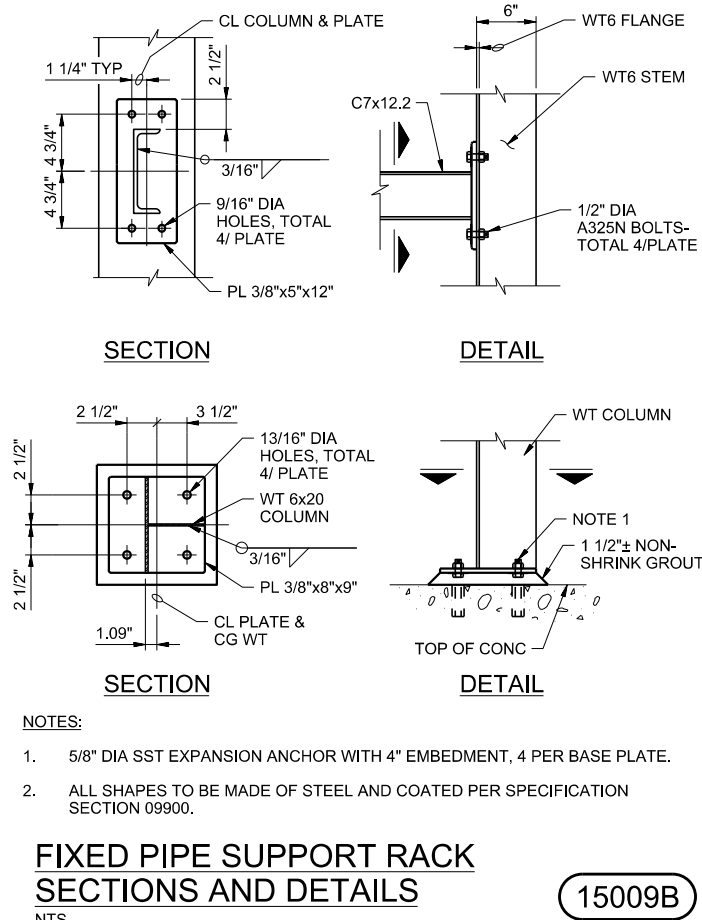


FIXED PIPE SUPPORT RACK
NTS

15009A

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DIMENSION TABLE				
PIPE SIZE	SUPPORT DIAMETER	PLATE		ANCHOR BOLT DIAMETER
		DIAMETER	THICKNESS	
3"	1 1/2"	5"	3/8"	3/8"
4"	2"	6"	3/8"	3/8"
6"	3"	7"	3/8"	3/8"
8" and 10"	4"	9"	1/2"	1/2"
12" thru 16"	6"	11"	1/2"	1/2"
18" thru 24"	8"	13 1/2"	5/8"	5/8"
30"	10"	16"	5/8"	5/8"
36"	12"	19"	5/8"	5/8"
42"	16"	23 1/2"	3/4"	3/4"
48"	18"	25"	3/4"	3/4"
54"	20"	30"	3/4"	3/4" (USE 6)
60"	24"	32"	3/4"	3/4" (USE 6)

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CITY OF ROSEVILLE

WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)

ROSEVILLE, CALIFORNIA

GENERAL

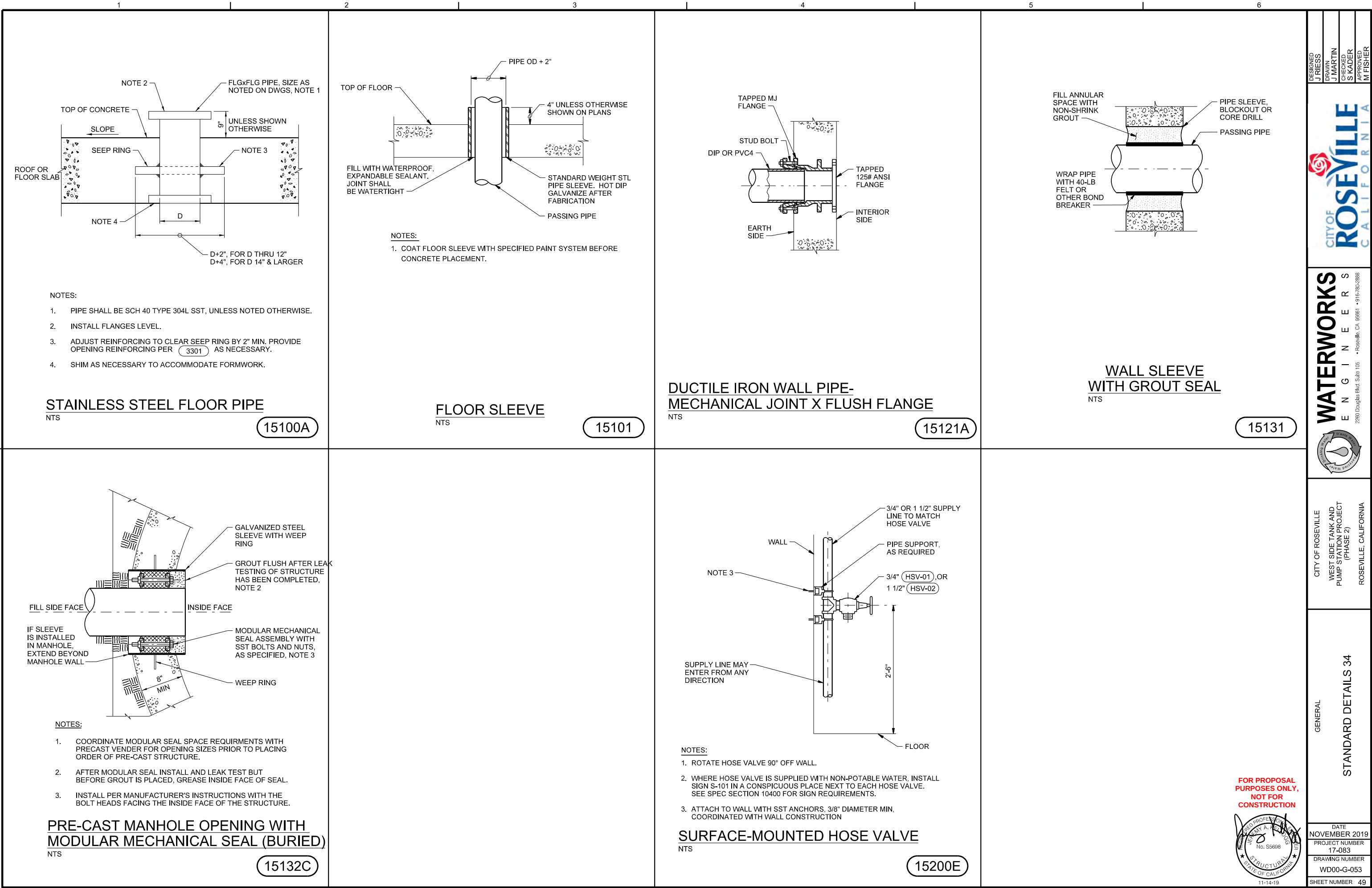
STANDARD DETAILS 33

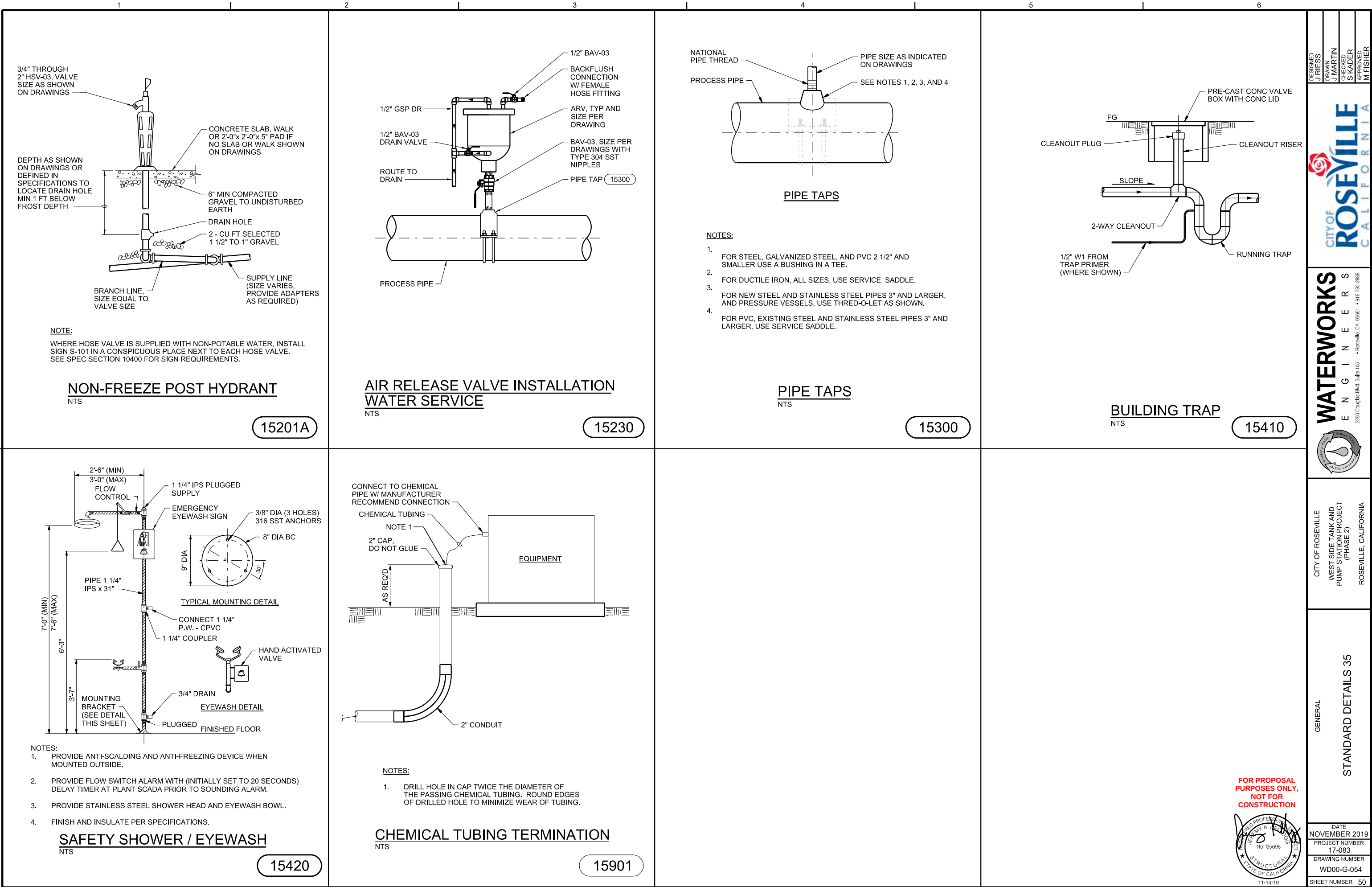
DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-G-052

SHEET NUMBER
48





DESIGNED J. RESS	DRAWN J. MARTIN	CHECKED S. KADER	APPROVED M. FISHER
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
GENERAL STANDARD DETAILS 35			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-G-054			
SHEET NUMBER 50			

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APPROVED	M. FISHER



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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

GENERAL
STANDARD DETAILS 36

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD00-G-055
SHEET NUMBER	51

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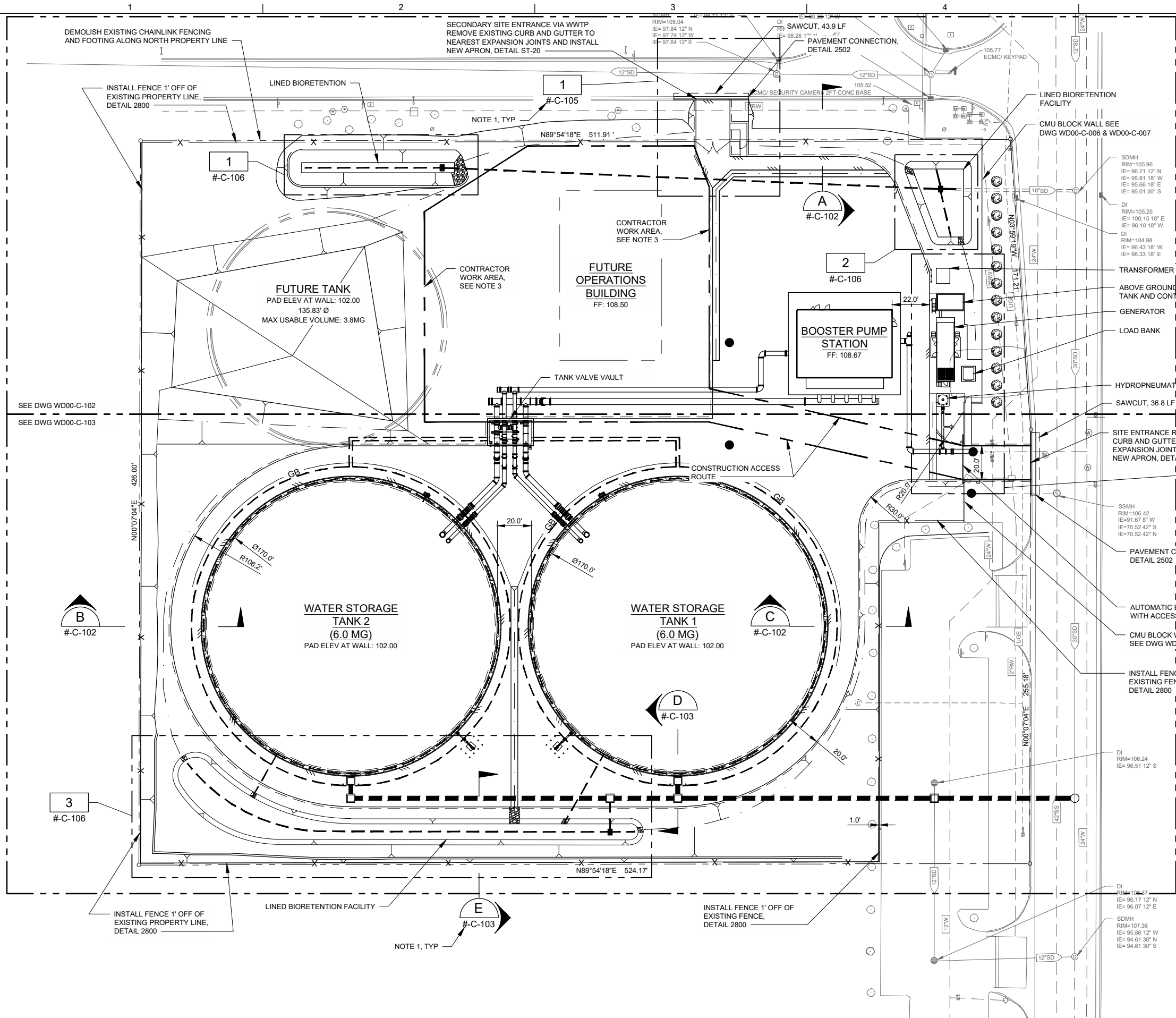


CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

GENERAL
STANDARD DETAILS 37

DATE NOVEMBER 2019
PROJECT NUMBER 17-083
DRAWING NUMBER WD00-G-056
SHEET NUMBER 52

L:\CAD\PROJECTS\17-083 ROSEVILLE WEST SIDE TANK - PS_(S)\PROJECT FILES\DELIVERABLES\WD5400C101.DWG



NOTES:

- REPLACE "H" IN DRAWING REFERENCES WITH "WD00".
- SEE DWG WD00-C-201 FOR YARD PIPING.
- CITY INTENDS TO INITIATE CONSTRUCTION OF THE FUTURE OPERATIONS/CREW BUILDING IN THE AREA INDICATED ON THE PLANS BEFORE THE COMPLETION OF THIS PROJECT. CONTRACTOR WILL COMPLETE SITE GRADING AND DRAINAGE IMPROVEMENTS FOR THE FUTURE OPERATIONS/CREW BUILDING AREA AND EVACUATE THEIR EQUIPMENT, STAGING, AND ALL OTHER USES OF THIS AREA IN ACCORDANCE WITH PROJECT MILESTONE 2. THIS CONSTRUCTION WORK AREA IS DEDICATED FOR CREW FACILITY CONTRACTOR AFTER MILESTONE 2. KEEP CLEAR AT ALL TIMES AND COORDINATE OPERATIONS AND SWPPP ACTIVITIES WITH CREW FACILITY CONTRACTOR.

GRADING NOTES:

- NON-POTABLE WATER SHALL BE SPRAYED ON ALL EXPOSED EARTH SURFACES DURING CLEARING, GRADING, EARTH MOVING, AND OTHER SITE PREPARATION ACTIVITIES. THE EXPOSED EARTH SHALL BE WATERED THROUGHOUT THE DAY TO MINIMIZE DUST.
- TARPAULINS OR OTHER EFFECTIVE COVERS SHALL BE USED ON ALL STOCKPILED EARTH MATERIAL AND ON HAUL TRUCKS TO MINIMIZE DUST.
- THE CITY SHALL HAVE THE AUTHORITY TO STOP ALL GRADING OPERATIONS, IF, IN THE OPINION OF CITY STAFF, INADEQUATE DUST CONTROL MEASURES ARE BEING PRACTICED OR EXCESSIVE WIND CONDITIONS CONTRIBUTE TO FUGITIVE DUST EMISSIONS.
- ADJACENT STREET FRONTAGES SHALL BE SWEEPED AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES. REFER TO SCHEDULES WITHIN SWPPP.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE. REFER TO SWPPP FOR SPECIFIC REQUIREMENTS.
- CONSTRUCTION SHALL STOP IF CULTURAL RESOURCES ARE SUSPECTED. IT IS POSSIBLE THAT PREVIOUS ACTIVITIES HAVE OBSCURED SURFACE EVIDENCE OF CULTURAL RESOURCES. IF SIGNS OF AN ARCHEOLOGICAL SITE, SUCH AS ANY UNUSUAL AMOUNTS OF STONE, BONE, OR SHELL, ARE UNCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN 100 FEET OF THE FIND AND THE CITY'S ENVIRONMENTAL COORDINATOR SHALL BE NOTIFIED. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. THE ARCHEOLOGIST MAY REQUIRE ADDITIONAL MITIGATION.
- SHOULD GRADING OPERATIONS UNCOVER HAZARDOUS MATERIALS, OR WHAT APPEARS TO BE HAZARDOUS MATERIALS, THE FIRE DEPARTMENT SHALL BE CONTACTED IMMEDIATELY AT (916) 774-5820. THE AREA, WHICH CONTAINS THE HAZARDOUS MATERIALS, SHALL BE MARKED OFF UNTIL AN INVESTIGATION BY A MEMBER OF THE FIRE DEPARTMENT IS CONDUCTED.
- THE CONTRACTOR IS EXPECTED TO COMPLY WITH THE FUGITIVE DUST CONTROL REQUIREMENTS FROM THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT: WWW.PLACER.CA.GOV/APCD
- CONTRACTOR RESPONSIBLE FOR ANY/ALL FINES.

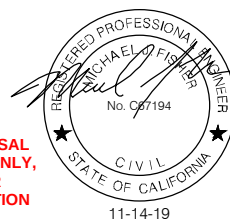
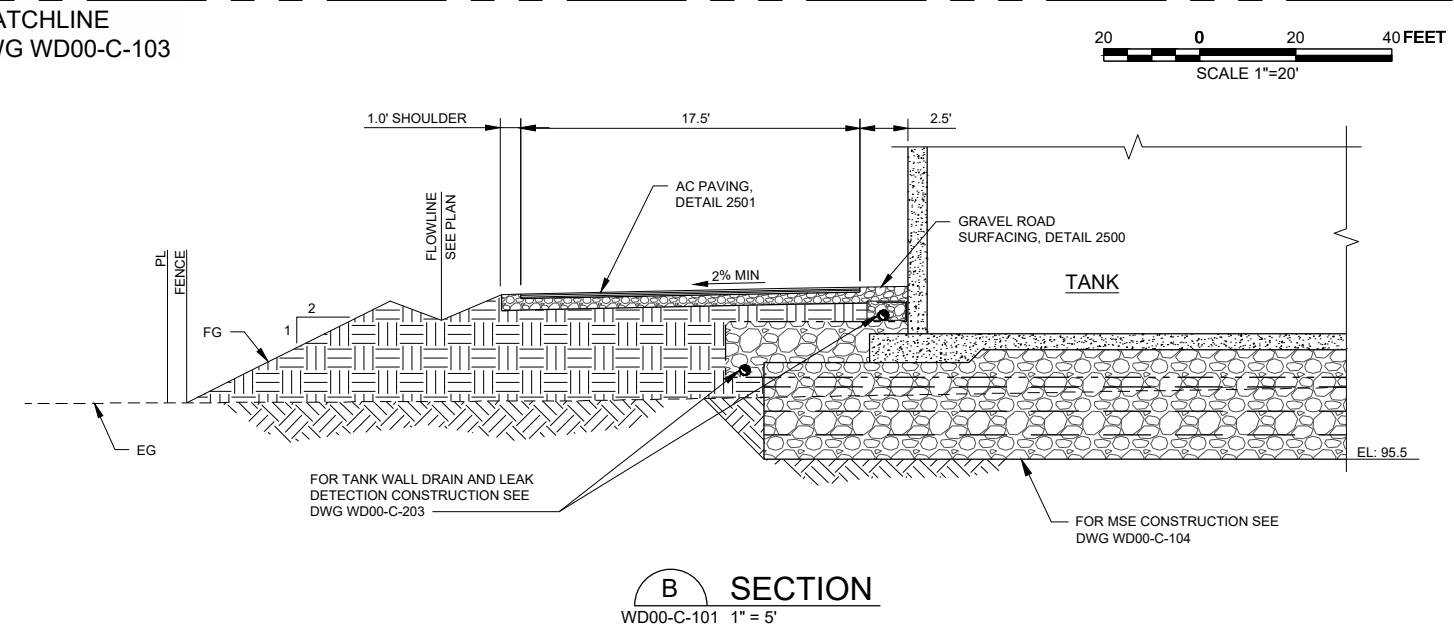
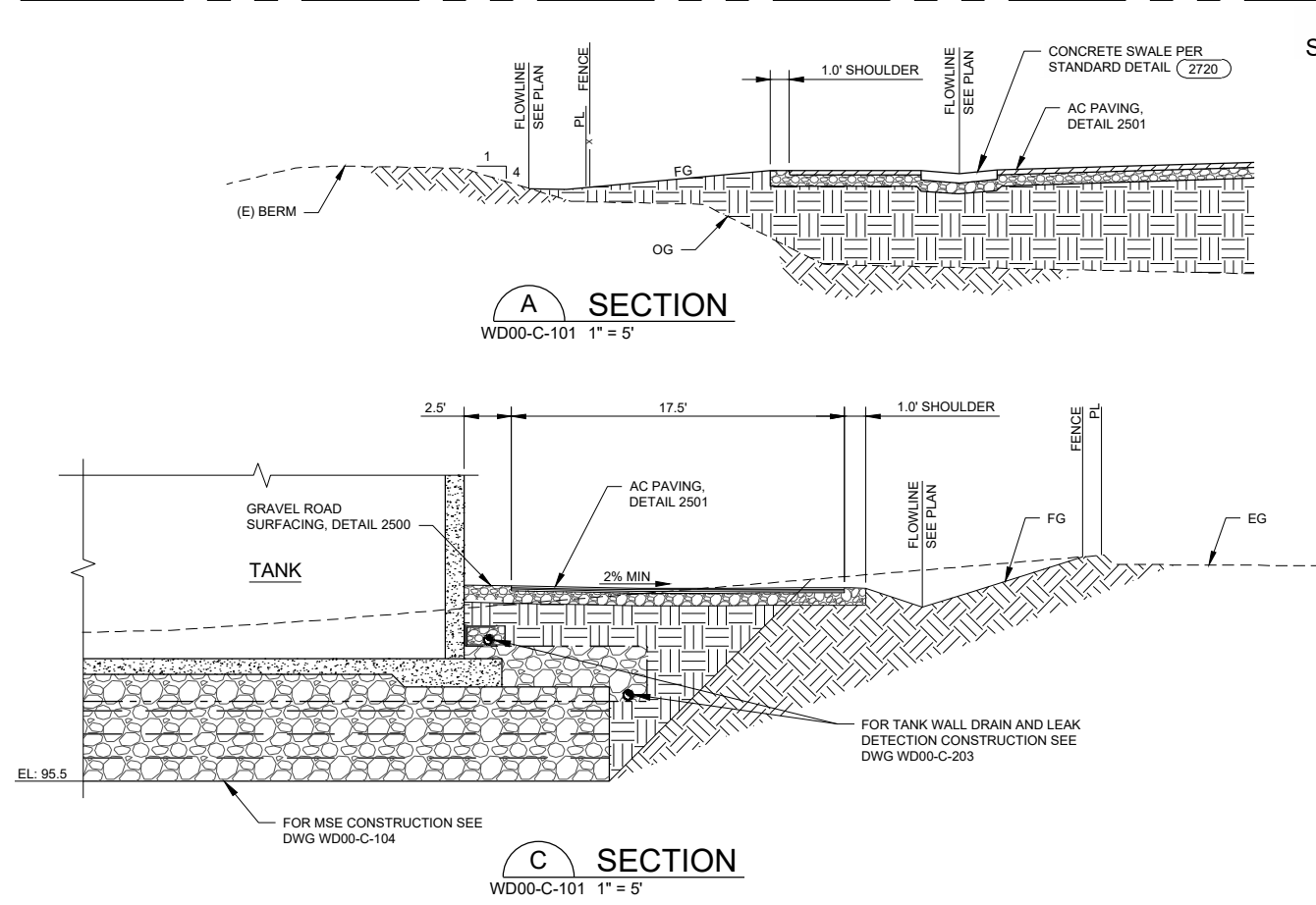
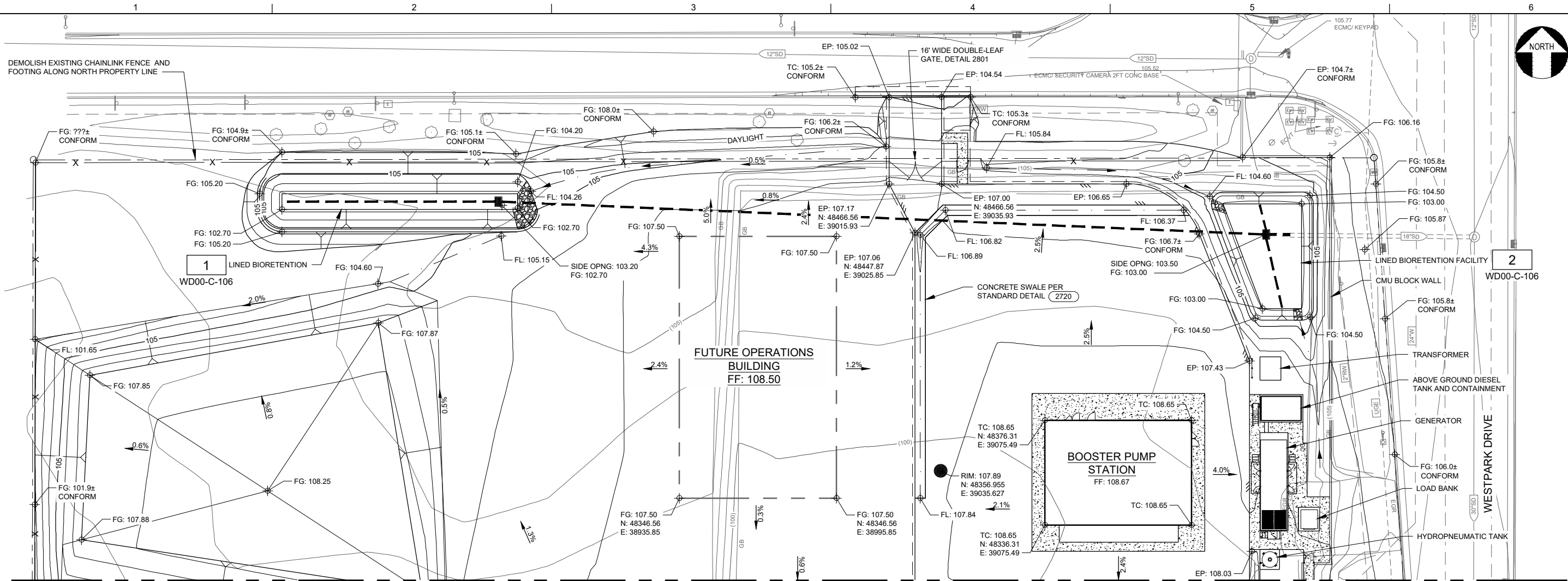
30 0 30 60 FEET
SCALE 1"=30'



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DESIGN P WEBSTER	DRAWN P WEBSTER	CHECKED C BERTSCH	APPROVED M FISHER
WATERWORKS ENGINEERS 2250 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-3888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
CIVIL OVERALL SITE PLAN			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-C-101			
SHEET NUMBER 54			

L:\CAD\PROJECTS\17-083 ROSEVILLE WEST SIDE TANK - PS_(S)\PROJECT FILES\DELIVERABLES\WD5400C102.DWG



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CONSTRUCTION

JOB NUMBER: 17-083

FILENAME: WD5400C102.DWG

PLOT DATE: 11/7/19

PLOT TIME: 13:55:00

DESIGN
P. WEBSTER
DRAWN
P. WEBSTER
CHECKED
C. BERTSCH
APPROVED
M. FISHER



WATERWORKS
ENGINEERS
2250 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-9888

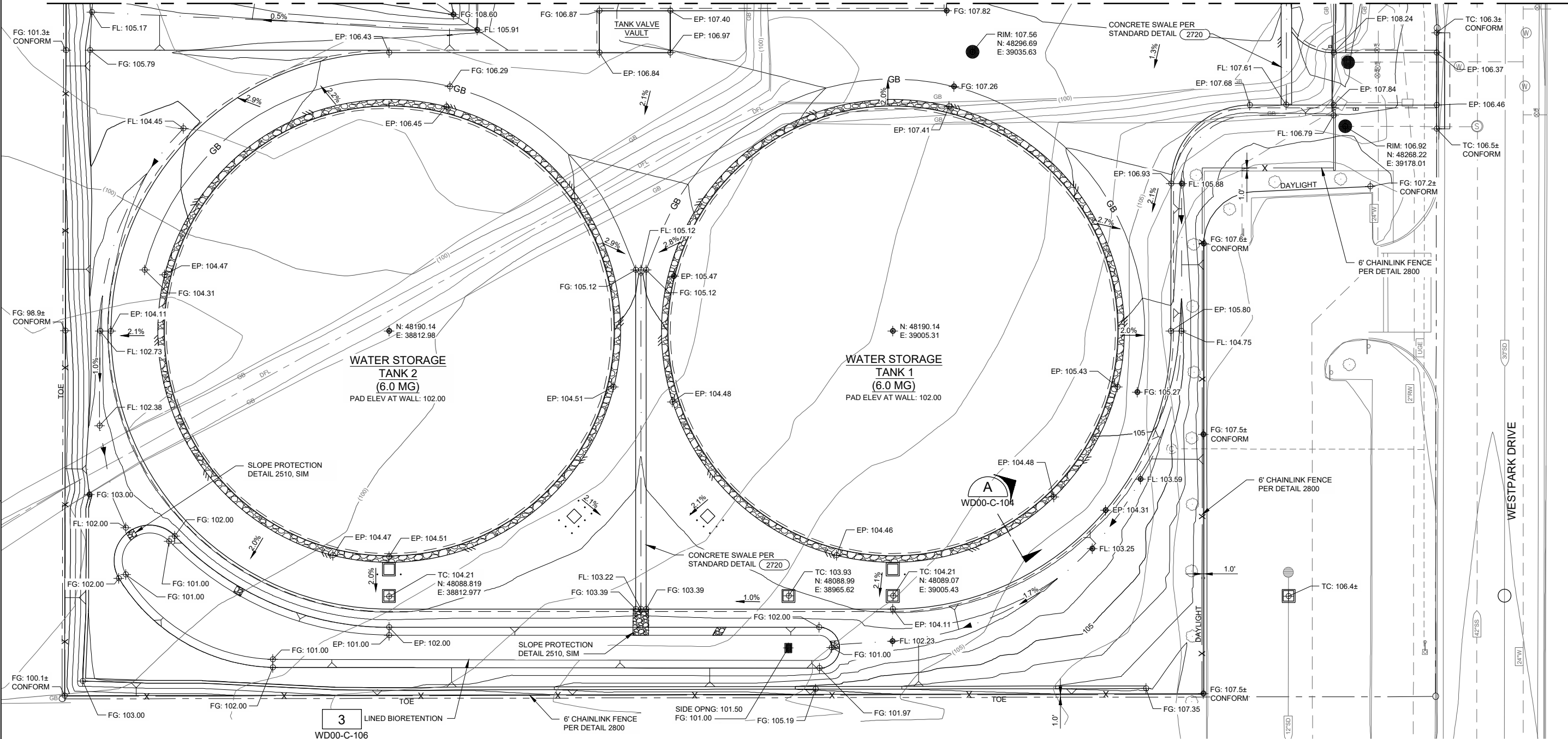
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

CIVIL
GRADING PLAN - NORTH

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-C-102
SHEET NUMBER 55

L:\CAD\PROJECTS\17-083 ROSEVILLE WEST SIDE TANK - PS_(S)\PROJECT FILES\DELIVERABLES\WD5400C103.DWG

MATCHLINE
SEE DWG WD00-C-102



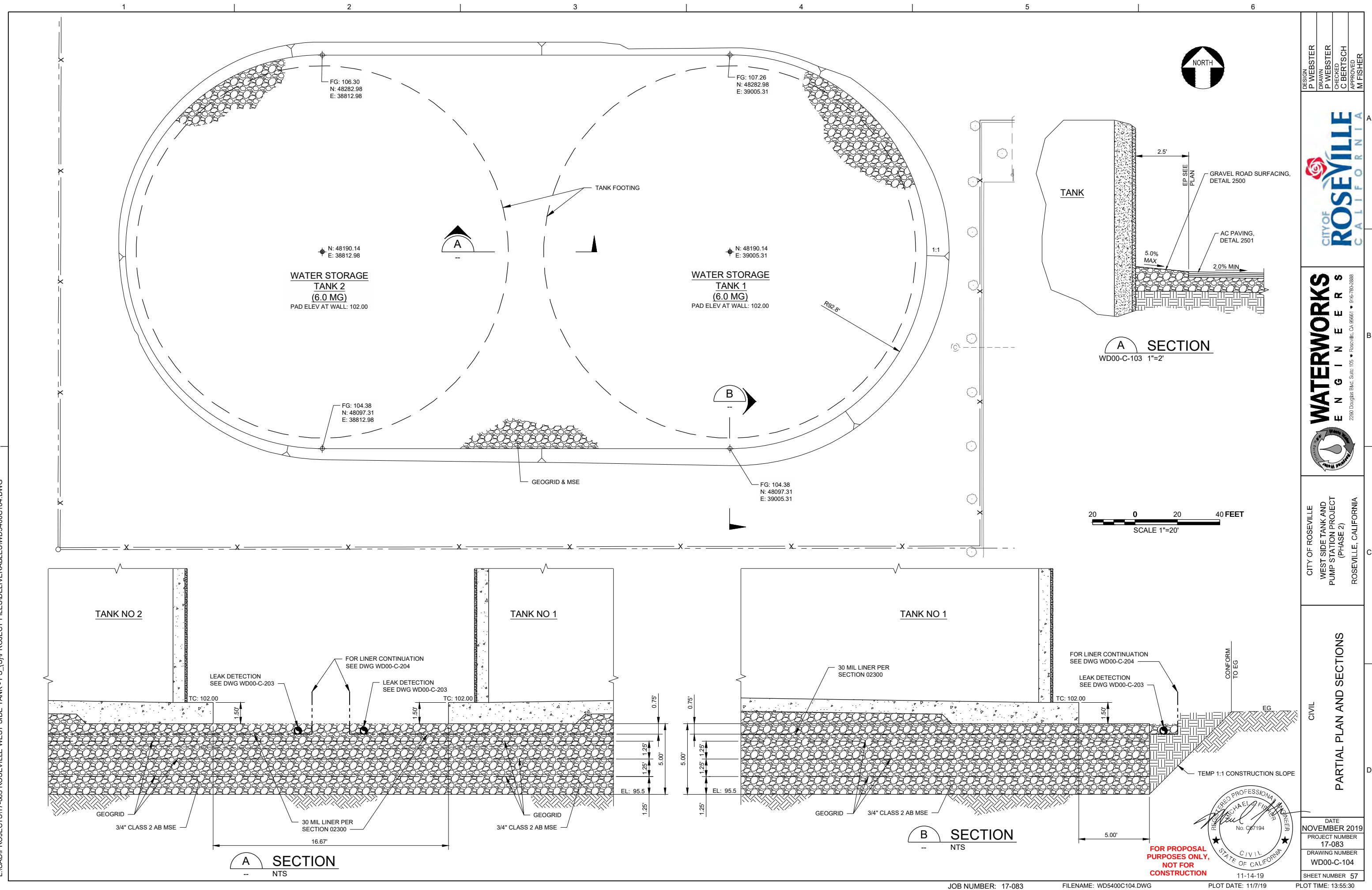
DESIGN
P WEBSTER
DRAWN
P WEBSTER
CHECKED
C BERTSCH
APPROVED
M FISHER



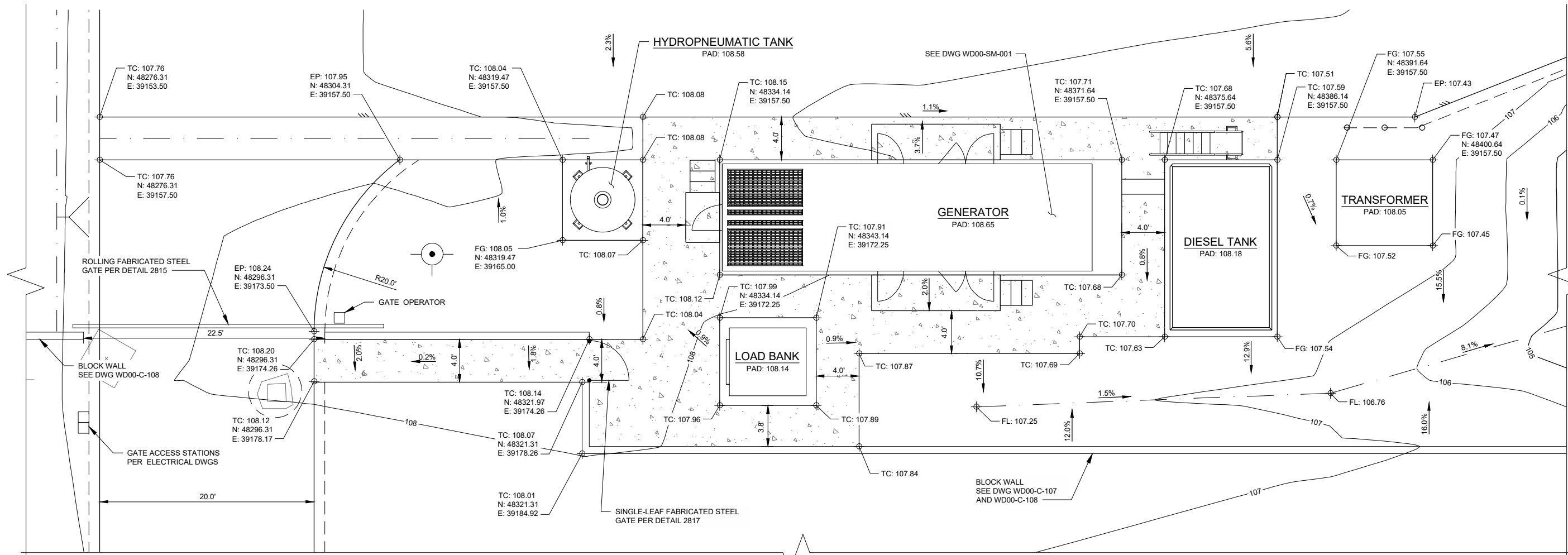
WATERWORKS
ENGINEERS
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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

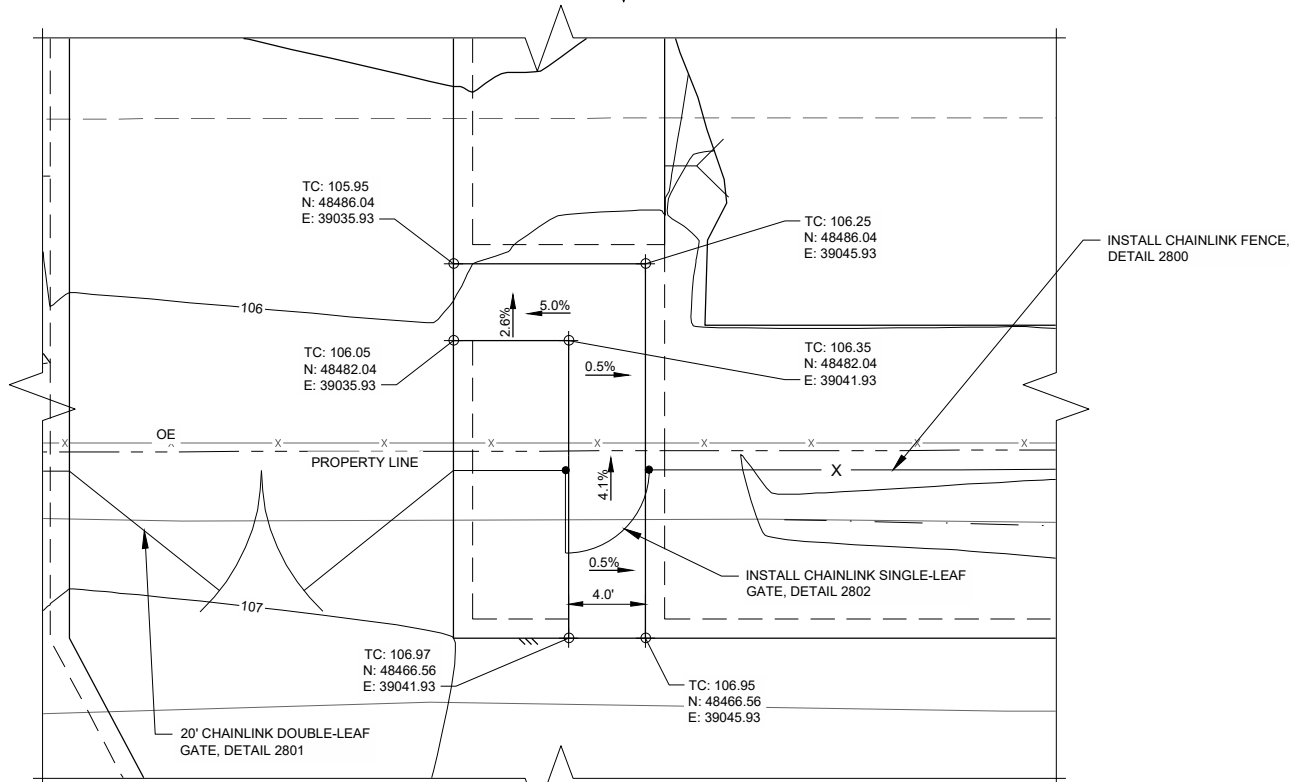
CIVIL
GRADING PLAN - SOUTH



L:\CAD\PROJECTS\17-083 ROSEVILLE WEST SIDE TANK - PS_(S)\PROJECT FILES\DELIVERABLES\WD5400C105.DWG



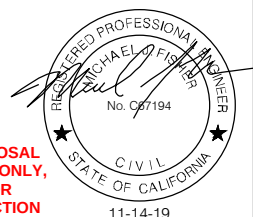
2 DETAIL
WD00-C-101 SCALE: 1"=5'



1 DETAIL
WD00-C-101 SCALE: 1"=5'



5 0 5 10 FEET
SCALE 1"=5'



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CONSTRUCTION

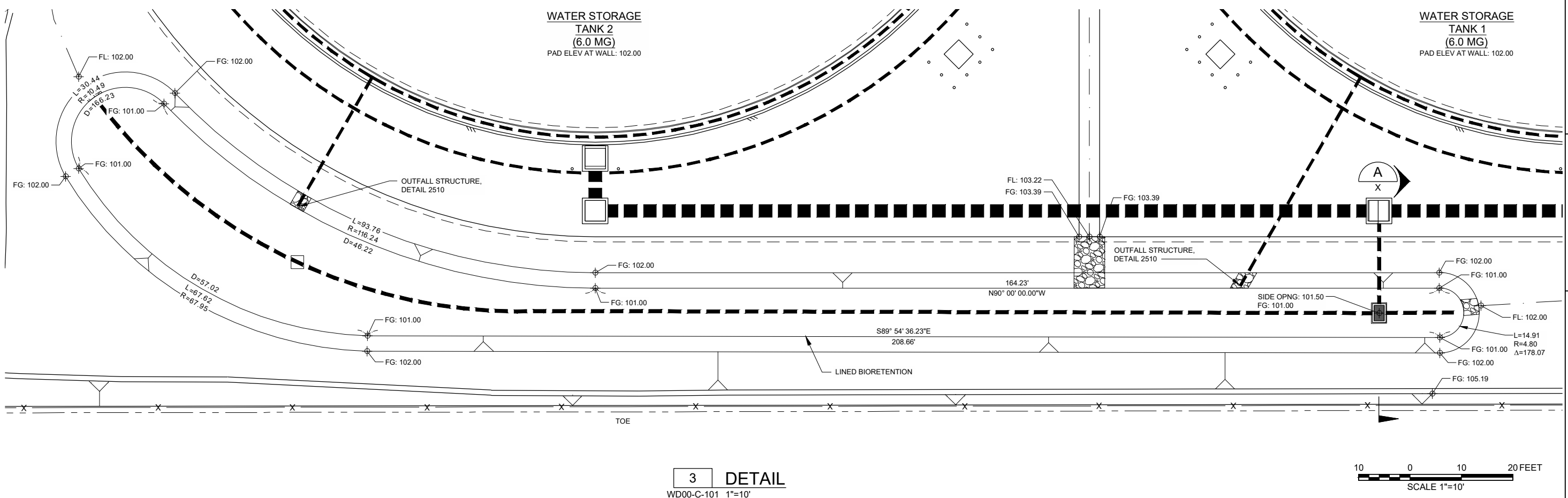
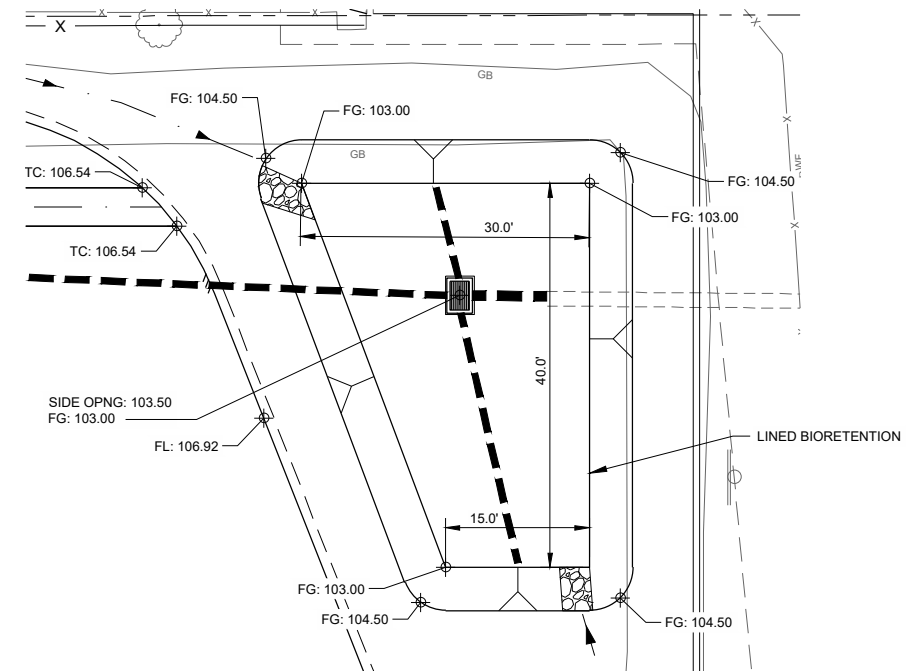
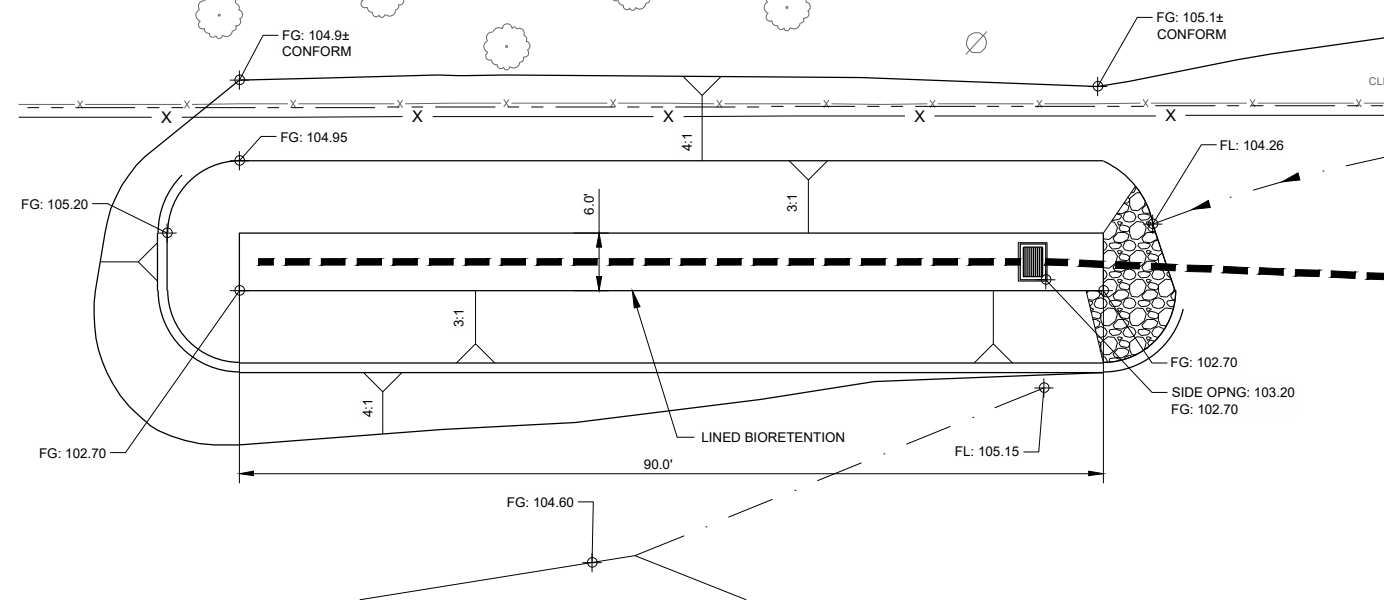
DESIGN P WEBSTER	DRAWN P WEBSTER	CHECKED C BERTSCH	APPROVED M FISHER
			
			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
CIVIL DETAILS			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-C-105			
SHEET NUMBER 58			

JOB NUMBER: 17-083

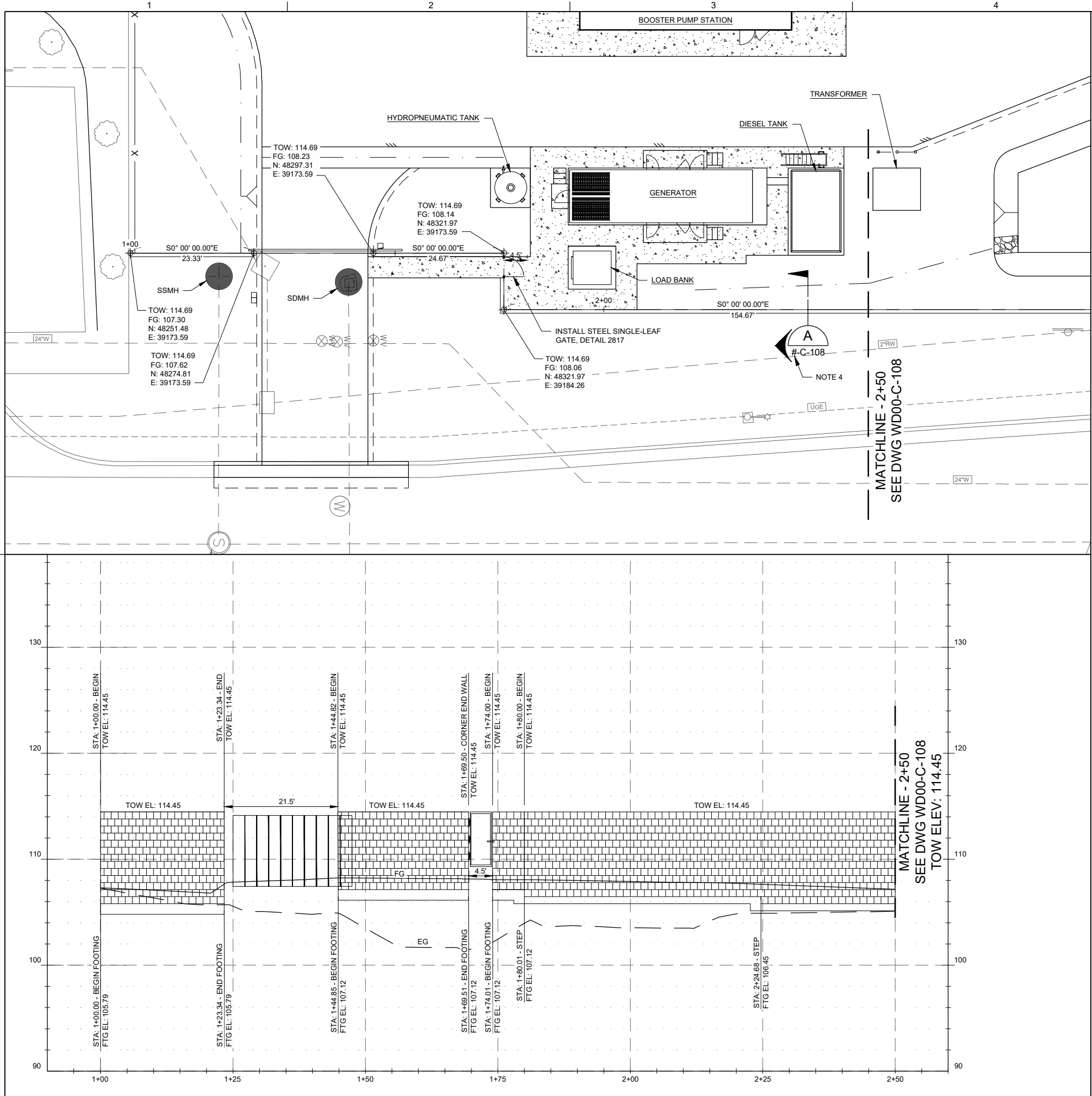
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PLOT DATE: 11/7/19

PLOT TIME: 13:55:54



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1

2

3

4

5

6

NORTH

NOTES:

1. APPLY ANTI-GRAFFITI COATING TO ALL EXTERIOR FACES OF CMU WALL. SHERWIN WILLIAMS B97C150 12 MILS WFT.

2. ALL CMU BLOCKS AND WALL CAPS TO BE GRAY SPLIT FACED BLOCKS.

3. WALL IS 6' TALL FROM FINISHED GRADE.

4. REPLACE "#" IN DRAWING REFERENCES WITH "WD00".

DESIGN
P WEBSTER

DRAWN
P WEBSTER

CHECKED
C BERTSCH

APPROVED
M FISHER

CITY OF ROSEVILLE

ROSEVILLE

CALIFORNIA

WATERWORKS

ENGINEERS

2260 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-9888

CITY OF ROSEVILLE

WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)

ROSEVILLE, CALIFORNIA

CIVIL

WALL PLAN AND PROFILE

BEG TO 2+50

DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-C-107

SHEET NUMBER
60

100

0

10

20

HORIZ SCALE 1"=10'

5

0

5

10

VERT SCALE 1"=5'

REGISTERED PROFESSIONAL ENGINEER

Michael D. Fisher

No. C67194

CIVIL

STATE OF CALIFORNIA

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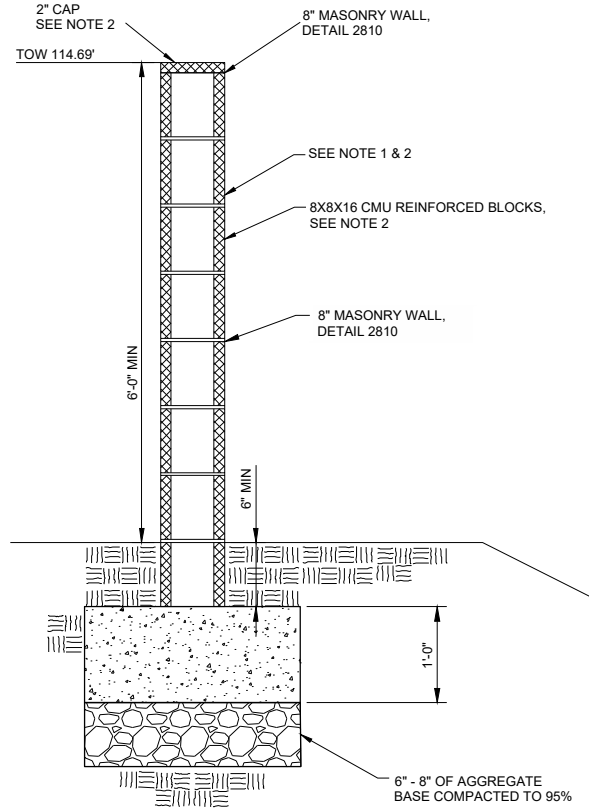
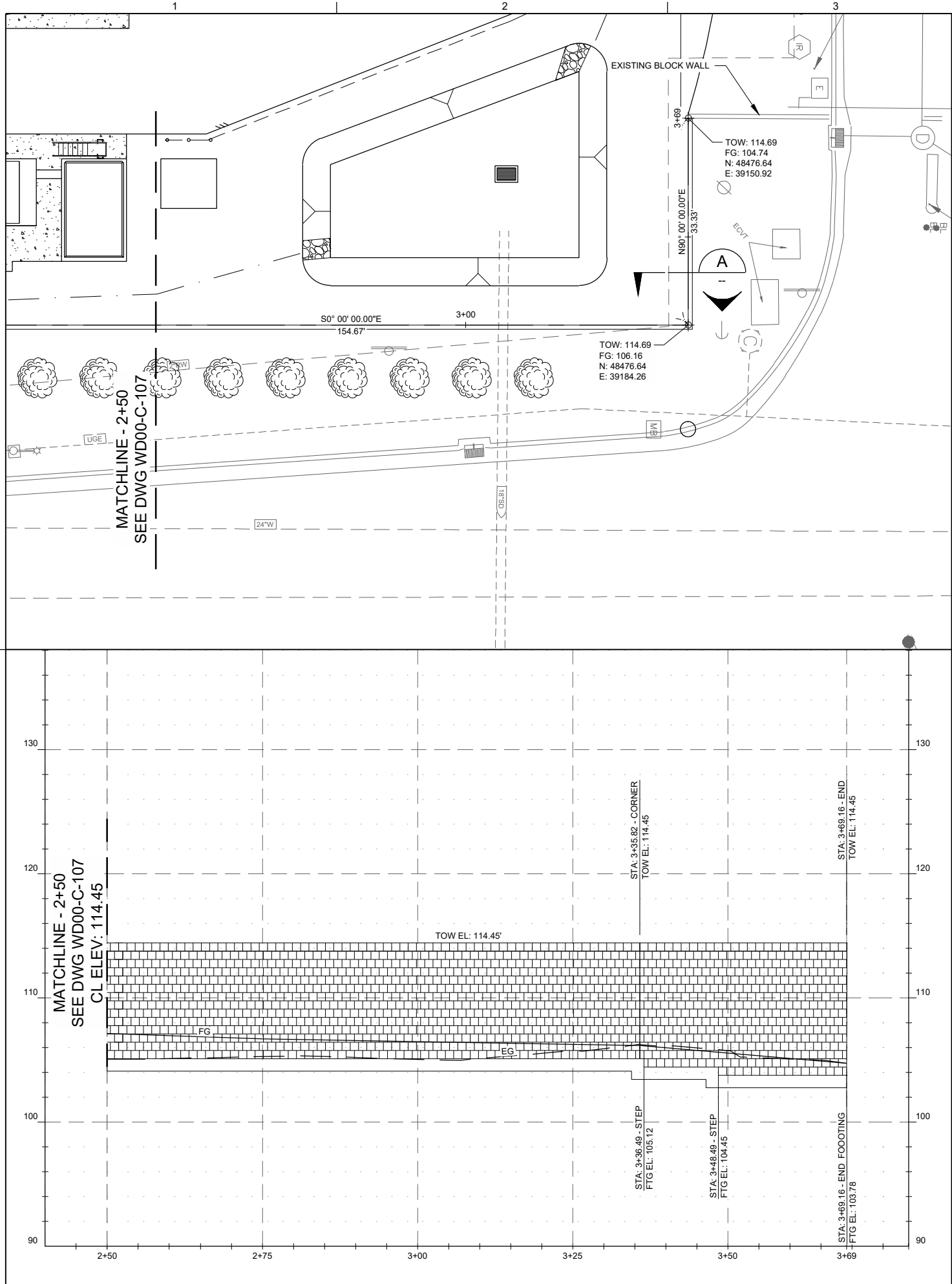
JOB NUMBER: 17-083

FILENAME: WD5400C107.DWG

PLOT DATE: 11/7/19

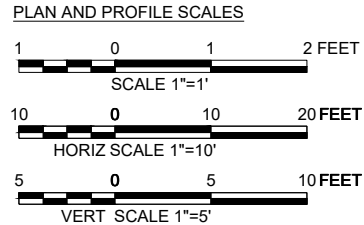
PLOT TIME: 13:56:37

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A TYP SECTION
WD00-C-107
SCALE: 1"=1'

- NOTES:
1. APPLY ANTI-GRAFFITI COATING TO ALL EXTERIOR FACES OF CMU WALL. SHERWIN WILLIAMS B97C150 12 MILS WFT.
 2. ALL CMU BLOCKS AND WALL CAPS TO BE GRAY SPLIT FACED BLOCKS.
 3. WALL IS 6' TALL FROM FINISHED GRADE.

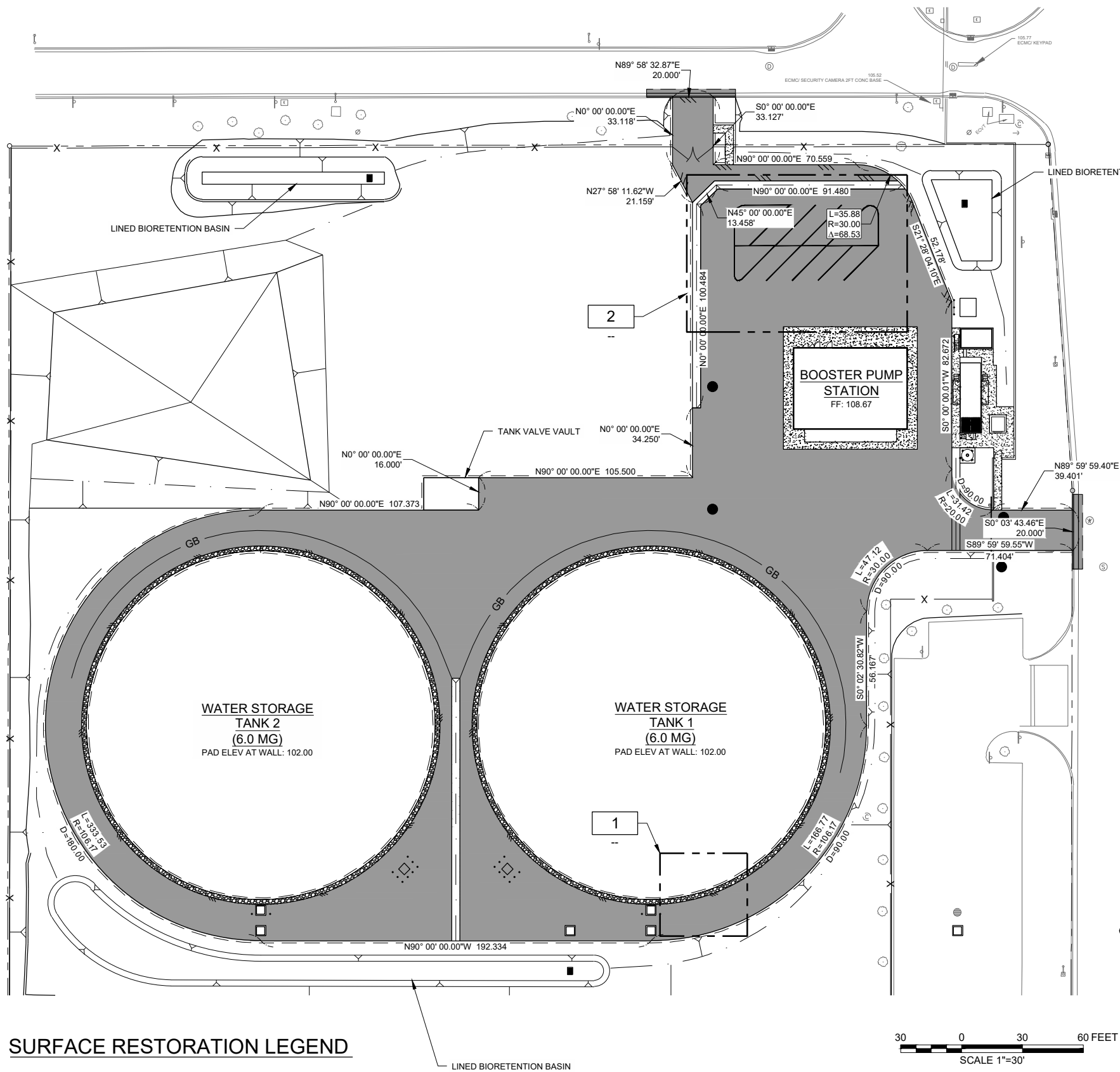


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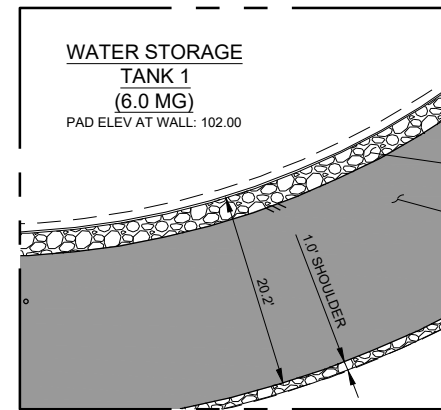
DESIGN P WEBSTER	CITY OF ROSEVILLE ENGINEERS 2280 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-9888	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	CIVIL WALL PLAN AND PROFILE 2+50 TO END	DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD00-C-108 SHEET NUMBER 61
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L:\CAD\PROJECTS\17-083 ROSEVILLE WEST SIDE TANK - PS_(S)\PROJECT FILES\DELIVERABLES\WD5400C109.DWG

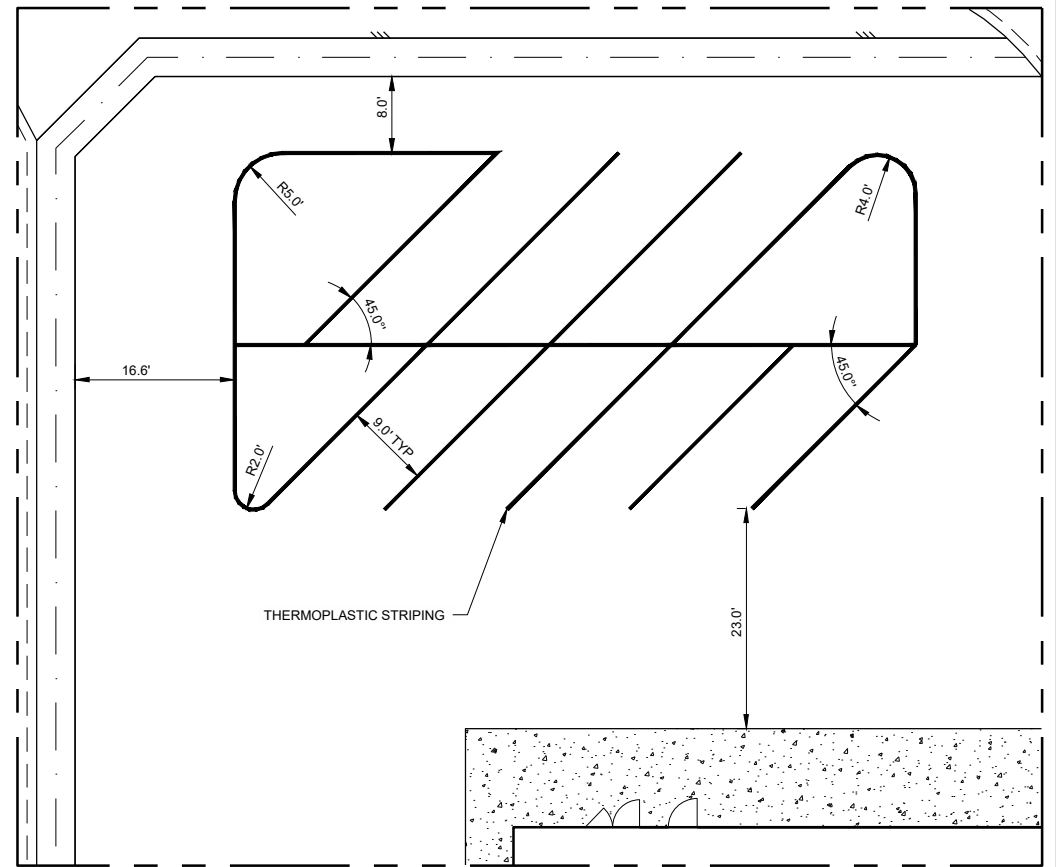


SURFACE RESTORATION LEGEND

- GRAVEL ROAD SURFACING, DETAIL 2500
- AC PAVEMENT, DETAIL 2501
- CONCRETE

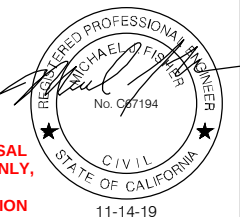


1 DETAIL
1"=10'



2 DETAIL
1"=10'

10 0 10 20 FEET
SCALE 1"=10'



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JOB NUMBER: 17-083

FILENAME: WD5400C109.DWG

PLOT DATE: 11/7/19

PLOT TIME: 13:57:09

WATERWORKS ENGINEERS
2260 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-3888

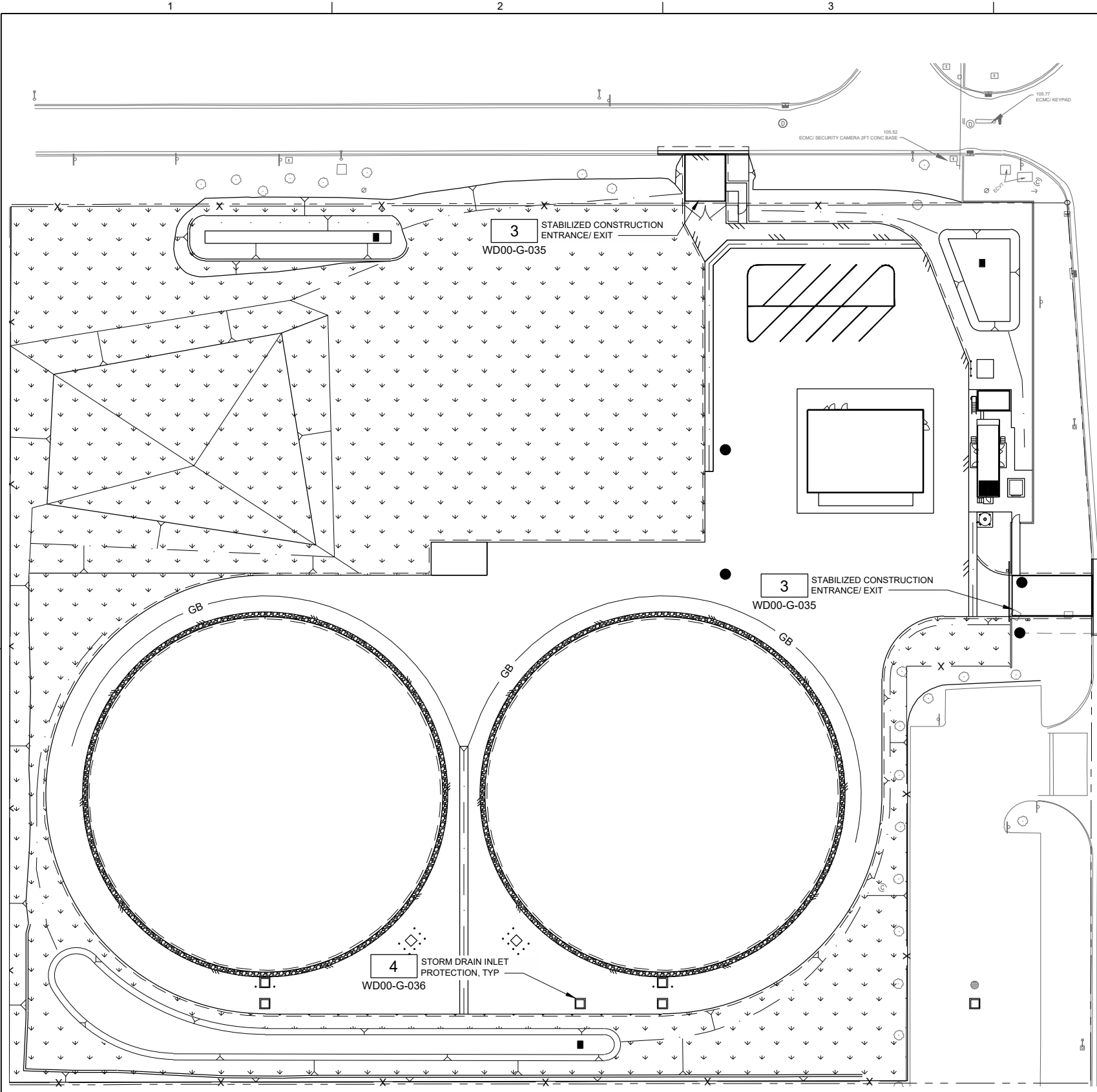
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

CIVIL
SURFACE RESTORATION PLAN

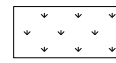
DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-C-109
SHEET NUMBER 62

DESIGN
P. WEBSTER
DRAWN
P. WEBSTER
CHECKED
C. BERTSCH
APPROVED
M. FISHER

L:\CAD\PROJECTS\17-083 ROSEVILLE WEST SIDE TANK - PS_(S)\PROJECT FILES\DELIVERABLES\WD5400C110.DWG



EROSION CONTROL LEGEND

 HYDROSEED AND INSTALL EROSION CONTROL MEASURES ON ALL DISTURBED AREAS PER SECTION 02936.

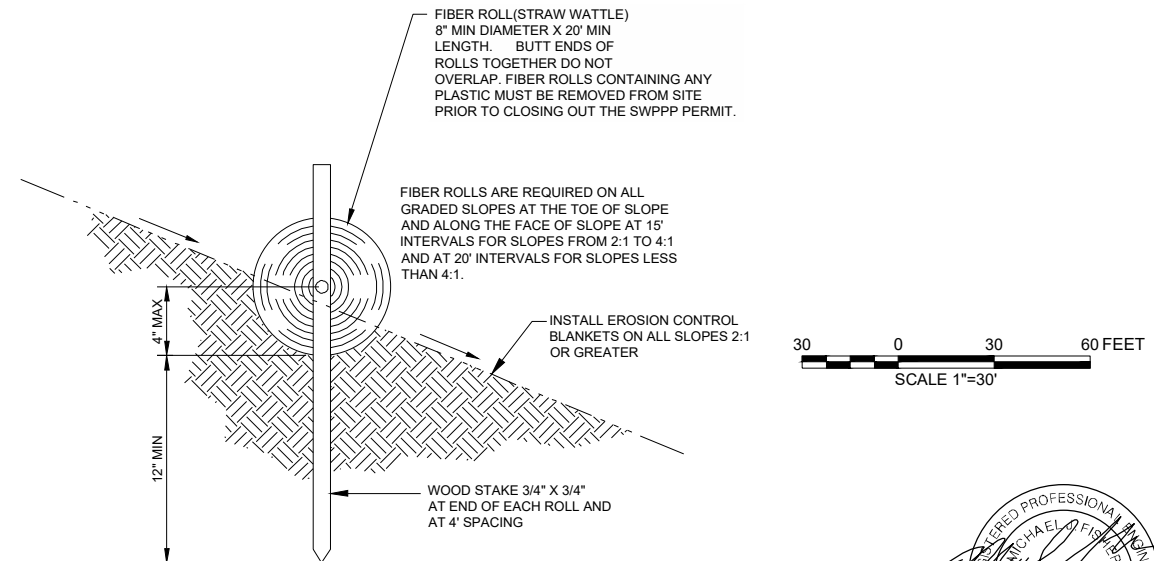
SLOPE TABLE	
SLOPE PERCENTAGE	SHEET FLOW LENGTH NOT TO EXCEED
0-25%	20 FEET
26-50%	15 FEET
OVER 51%	10 FEET

NOTES:

- EROSION CONTROL PER BEST MANAGEMENT PRACTICES AND EROSION NOTES AND DETAILS, SEE PAGES SD-16 AND SD-17.
- HYDROSEEDING (OR EQUIVALENT VEGETATION) WILL BE APPLIED TO INACTIVE DISTURBED AREAS THAT ARE DEEMED SUBSTANTIALLY COMPLETE. HYDROSEEDING (OR EQUIVALENT) WILL BE RE-APPLIED AS NEEDED TO MAINTAIN EFFECTIVENESS.
- STRAW MULCH WILL BE APPLIED TO ALL INACTIVE DISTURBED AREAS. AN INACTIVE DISTURBED AREA IS DEFINED AS AN AREA THAT HAS BEEN DISTURBED, IS NOT YET STABILIZED, AND WORK IS NOT SCHEDULED TO RESUME AT THE AREA WITHIN 14 DAYS. STRAW MULCH WILL BE RE-APPLIED AS NEEDED TO MAINTAIN EFFECTIVENESS.
- DISTURBED SLOPES THAT ARE NOT DEEMED SUBSTANTIALLY COMPLETE WILL BE STABILIZED WITH PLASTIC COVERS (HYDROSEEDING WILL BE USED WHEN DISTURBED SLOPES ARE DEEMED SUBSTANTIALLY COMPLETE). LINEAR SEDIMENT CONTROLS WILL BE DEPLOYED AT THE BASE OF AREAS PROTECTED WITH PLASTIC COVERS.
- LINEAR SEDIMENT CONTROLS (SILT FENCING, FIBER ROLLS, ETC.) WILL BE DEPLOYED ON DISTURBED SLOPES THAT HAVE A SLOPE UP TO 1:4 (V:H), AND A SLOPE LENGTH LESS THAN 100 FEET (FIBER ROLLS WILL BE USED WHEN SLOPE LENGTH EXCEEDS 100 FEET). FIBER ROLLS WILL BE DEPLOYED ON DISTURBED SLOPES GREATER THAN, OR EQUAL TO, 1:4 (V:H). THE CONTRACTOR SHALL APPLY LINEAR SEDIMENT CONTROLS ALONG THE TOE OF THE SLOPE, FACE OF THE SLOPE, AND AT THE GRADE BREAKS OF EXPOSED SLOPES TO COMPLY WITH SHEET FLOW LENGTHS IN ACCORDANCE WITH TABLE 300-1 "CRITICAL SLOPE/SHEET FLOW LENGTH COMBINATIONS", LOCATED ON THIS SHEET. ADDITIONALLY, LINEAR SEDIMENT CONTROLS WILL BE USED AS A PERIMETER CONTROL TO CONTAIN SEDIMENT WITHIN THE PROJECT AREA. IT IS NOT NECESSARY TO DEPLOY PERIMETER CONTROLS AT LOCATIONS WHERE SEDIMENT IS UNABLE TO LEAVE THE PROJECT SITE (SUCH AS AREAS THAT SLOPE INWARD).
- CHECK DAMS WILL BE DEPLOYED TO SLOW FLOW VELOCITIES IN UNLINED SWALES UNTIL GRASS IS ESTABLISHED.
- THE CONTRACTOR SHALL INSPECT ALL IMMEDIATE ACCESS ROADS DAILY. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT OR OTHER CONSTRUCTION ACTIVITY RELATED MATERIALS THAT ARE DEPOSITED ON THE ROADS BY VACUUMING OR SWEEPING ON A DAILY BASIS AND PRIOR TO ANY RAIN EVENT.
- ANY STORM DRAIN INLETS DOWN GRADIENT OF DISTURBED SOIL AREAS WILL BE PROTECTED.
- A STABILIZED CONSTRUCTION ENTRANCE/EXIT WILL BE CONSTRUCTED. CONSTRUCTION ACTIVITY TRAFFIC TO AND FROM THE PROJECT WILL BE LIMITED TO THESE STABILIZED CONSTRUCTION ENTRANCES/EXITS. IF THE PROJECT'S STABILIZED CONSTRUCTION ENTRANCES/EXITS DO NOT SUFFICIENTLY REMOVE SEDIMENT FROM THE TIRES OF CONSTRUCTION VEHICLES AND EQUIPMENT, AN ENTRANCE/OUTLET TIRE WASH WILL BE CONSTRUCTED. ADDITIONAL TIRE WASHES WILL BE CONSTRUCTED AS NEEDED.
- ALL STOCKPILES WILL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORM WATER, DRAINAGE COURSES, AND INLETS. ALL STOCKPILES WILL BE BERMED. ADDITIONALLY, STOCKPILES WILL BE COVERED AT ALL TIMES (TO PROTECT THEM FROM THE WIND AND THE RAIN) WHEN THEY ARE NOT ACTIVELY BEING USED. STOCKPILES THAT ARE UNSTABILIZED DURING CONSTRUCTION ACTIVITIES WILL BE SPRAYED WITH WATER AS NEEDED FOR DUST CONTROL.
- AN ABOVE GRADE OR MOBILE CONCRETE WASHOUT WILL BE CONSTRUCTED OR PLACED AT THE STAGING AREA IF CONCRETE TRUCKS OR CONCRETE EQUIPMENT WILL BE WASHED ON-SITE. THE WASHOUT WILL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM CONCENTRATED FLOWS OF STORM WATER, DRAINAGE COURSES, AND INLETS. ADDITIONAL WASHOUTS WILL BE UTILIZED AS NEEDED.

EROSION CONTROL NOTES:

- THE STATE'S GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (2009-2009-DWQ) REQUIRES THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR SITES WITH SOIL DISTURBANCES GREATER THAN OR EQUAL TO ONE ACRE, OR FROM SITES SMALLER THAN ONE ACRE IF THE CONSTRUCTION ACTIVITY IS PART OF A LARGER PLAN OF DEVELOPMENT OR SALE THAT DISTURBS ONE ACRE OR MORE. CONSTRUCTION ACTIVITY SHALL NOT COMMENCE, NOR A PRE-CONSTRUCTION MEETING BE PERMITTED TO BE SCHEDULED, PRIOR TO THE SWPPP BEING ACCEPTED BY THE CITY. FOR MORE INFORMATION SEE: http://www.roseville.ca.us/eu/stormwater_management
- THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS INCORPORATED BY REFERENCE INTO THIS SET OF PLANS. THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND WILL CHANGE AS CONDITIONS WARRANT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THESE PLANS.
- A COPY OF THE SWPPP SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE SWPPP.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH THE SWPPP.
- THE CONTRACTOR SHALL ESTABLISH A SPECIFIC SITE WITHIN THE DEVELOPMENT FOR MAINTENANCE AND STORAGE OF EQUIPMENT OR ANY OTHER ACTIVITY THAT MAY ADVERSELY CONTRIBUTE TO THE WATER QUALITY OF THE RUNOFF IN ACCORDANCE WITH THE SWPPP.
- NO TRACKING ON PUBLIC STREET.



1 FIBER ROLL DETAIL
-- NTS

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DESIGN P WEBSTER		CITY OF ROSEVILLE ENGINEERS 2260 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-760-9888
DRAWN P WEBSTER		
CHECKED C BERTSCH		
APPROVED M FISHER		
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA		
CIVIL EROSION CONTROL PLAN		
DATE NOVEMBER 2019		
PROJECT NUMBER 17-083		
DRAWING NUMBER WD00-C-110		
SHEET NUMBER 63		

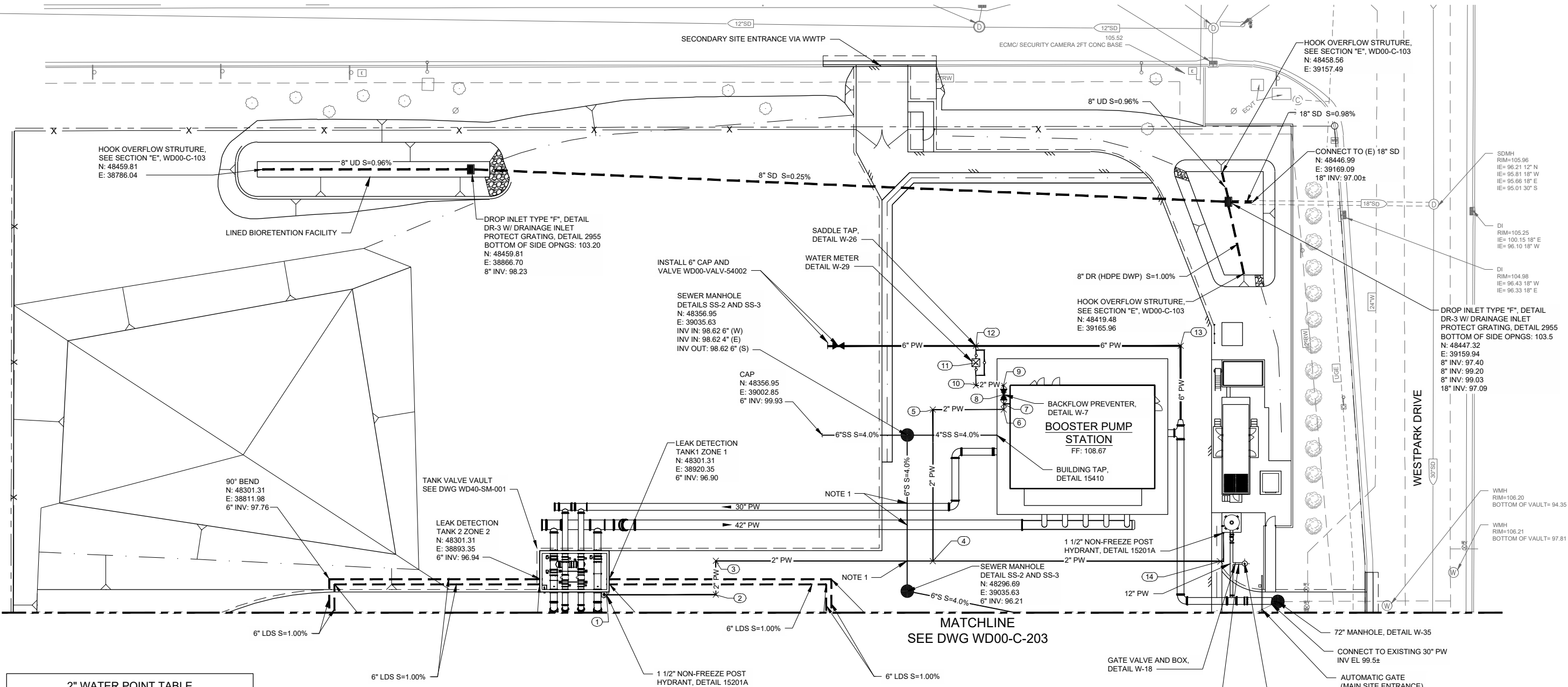


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DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD00-C-201 SHEET NUMBER 64	YARD PIPING	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)	ROSEVILLE, CALIFORNIA	 WATERWORKS ENGINEERS 2250 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-790-2988		DESIGN	P WEBSTER
						DRAWN	P WEBSTER
						CHECKED	C BERTSCH
						APPROVED	
						M FISHER	

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2" WATER POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
1	48294.97	38919.25	90° BEND
2	48295.31	38961.56	90° BEND
3	48308.40	38961.57	90° BEND
4	48308.32	39045.63	TEE
5	48366.95	39045.63	90° BEND
6	48366.95	39072.99	90° BEND
7	48369.13	39072.99	TEE
8	48372.72	39072.99	BACKFLOW PREVENTER
9	48376.31	39072.99	90°
10	48376.31	39062.24	90°
11	48385.06	39062.24	WATER METER
12	48391.56	39062.24	TEE
13	48391.56	39141.49	90° BEND
14	48308.23	39156.92	90° BEND



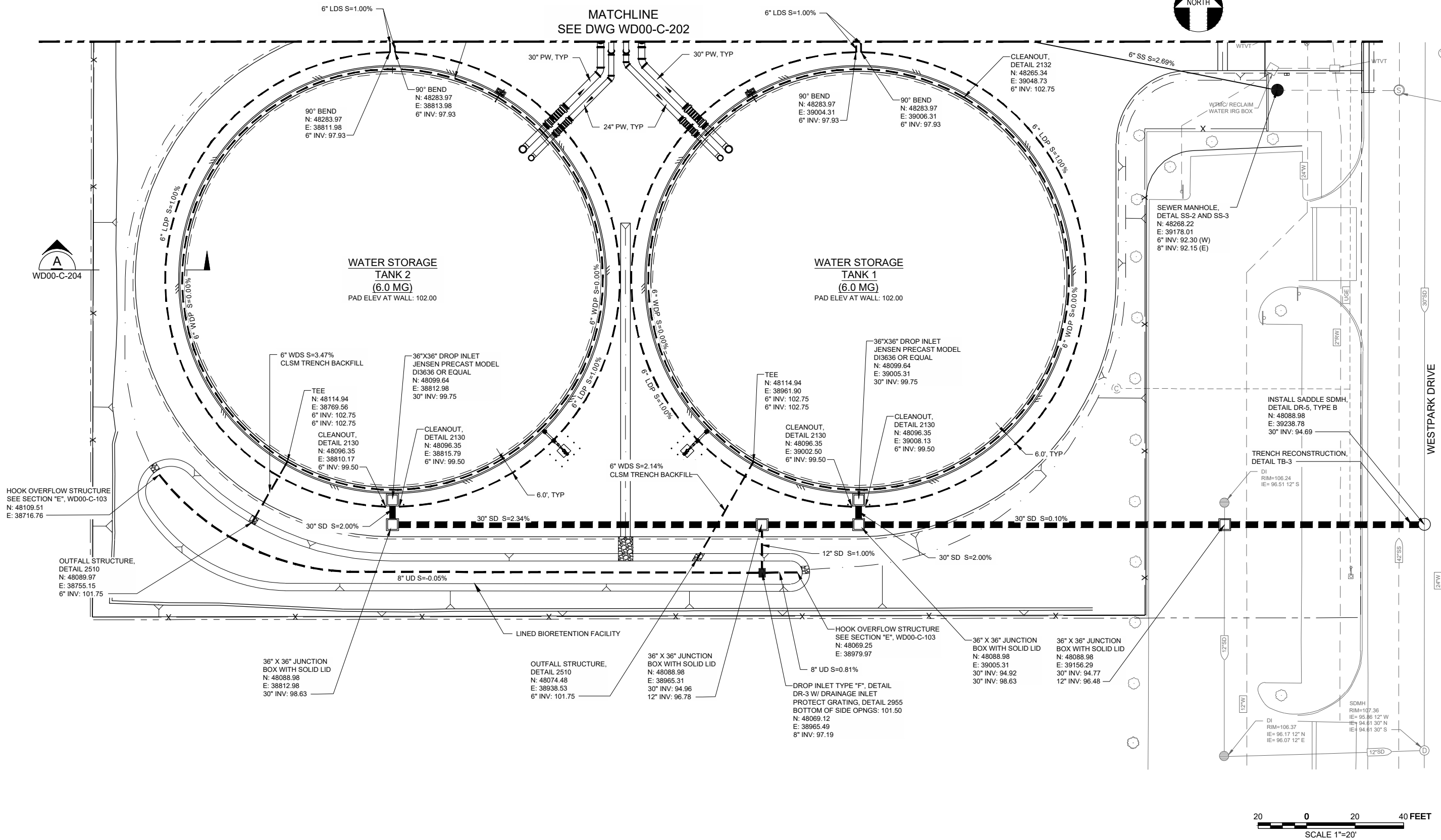
NOTES

1. WATER AND SEWER CROSSING, DETAIL W-39

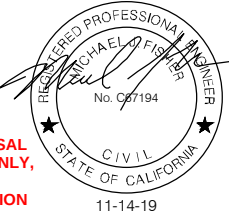
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20 0 20 40 FEET
SCALE 1"=20'



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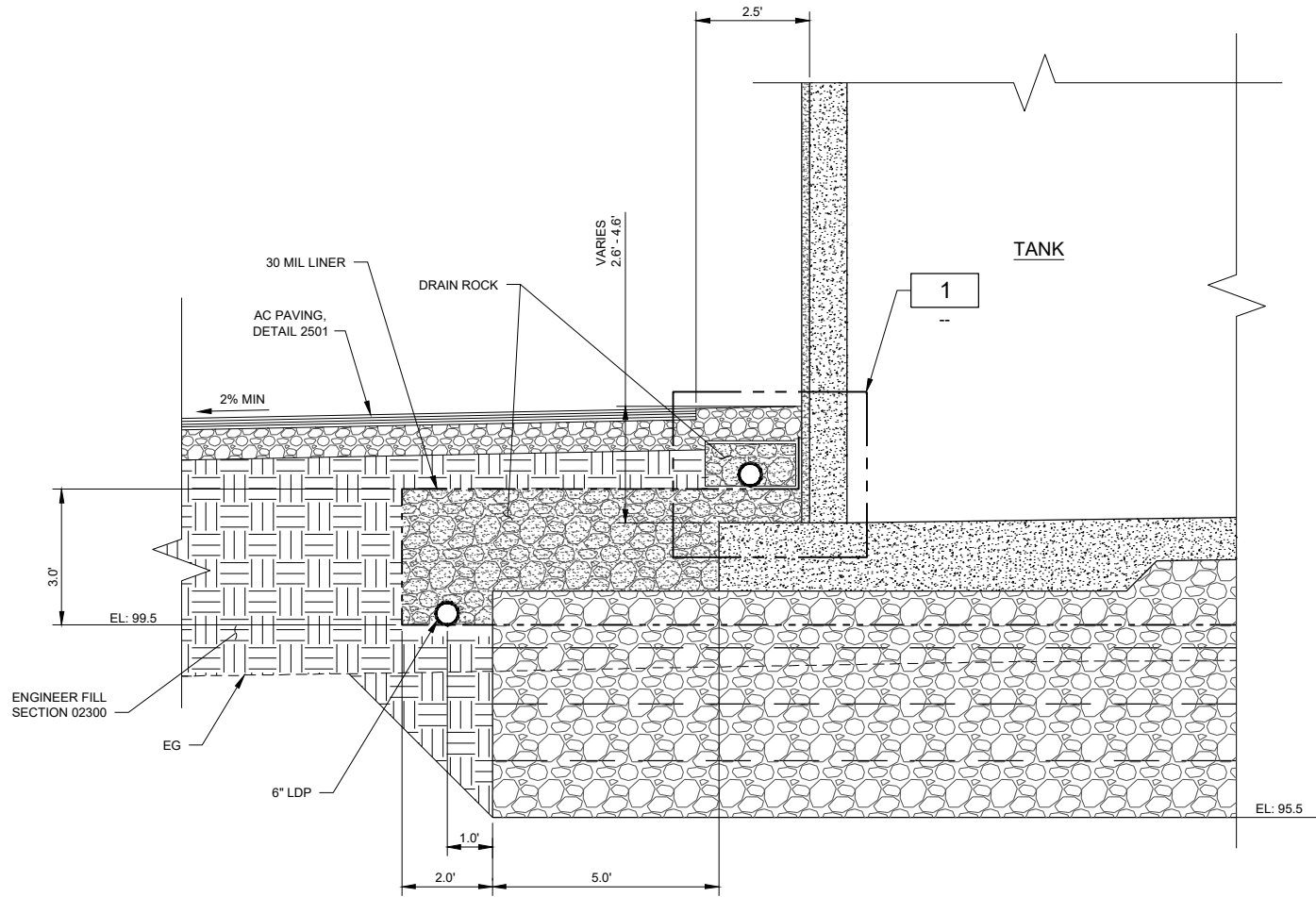
DESIGN P WEBSTER	DATE NOVEMBER 2019
DRAWN P WEBSTER	PROJECT NUMBER 17-083
CHECKED C BERTSCH	DRAWING NUMBER WD00-C-203
APPROVED M FISHER	SHEET NUMBER 66

CITY OF ROSEVILLE
ENGINEERS
2250 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-9888

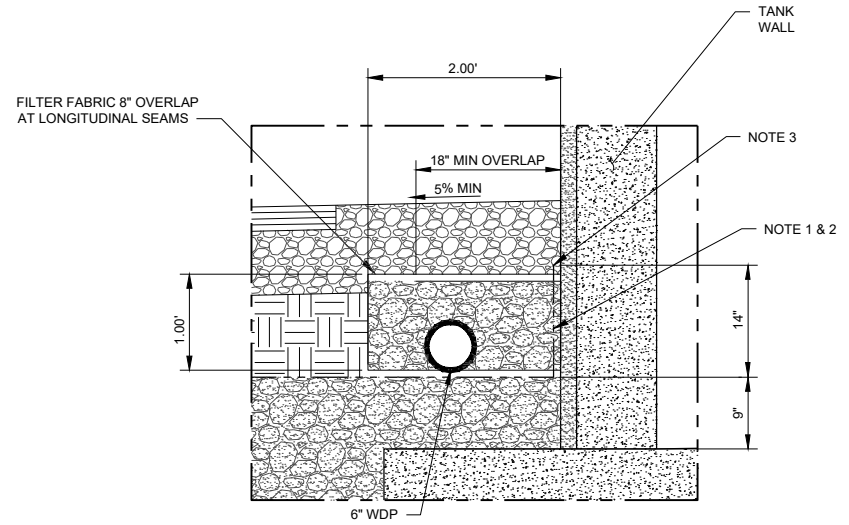
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

YARD PIPING
PLAN - SOUTH

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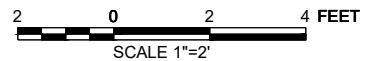
A TYP. SECTION
WD00-C-203 1"= 2'



1 DETAIL
-- NTS

NOTES:

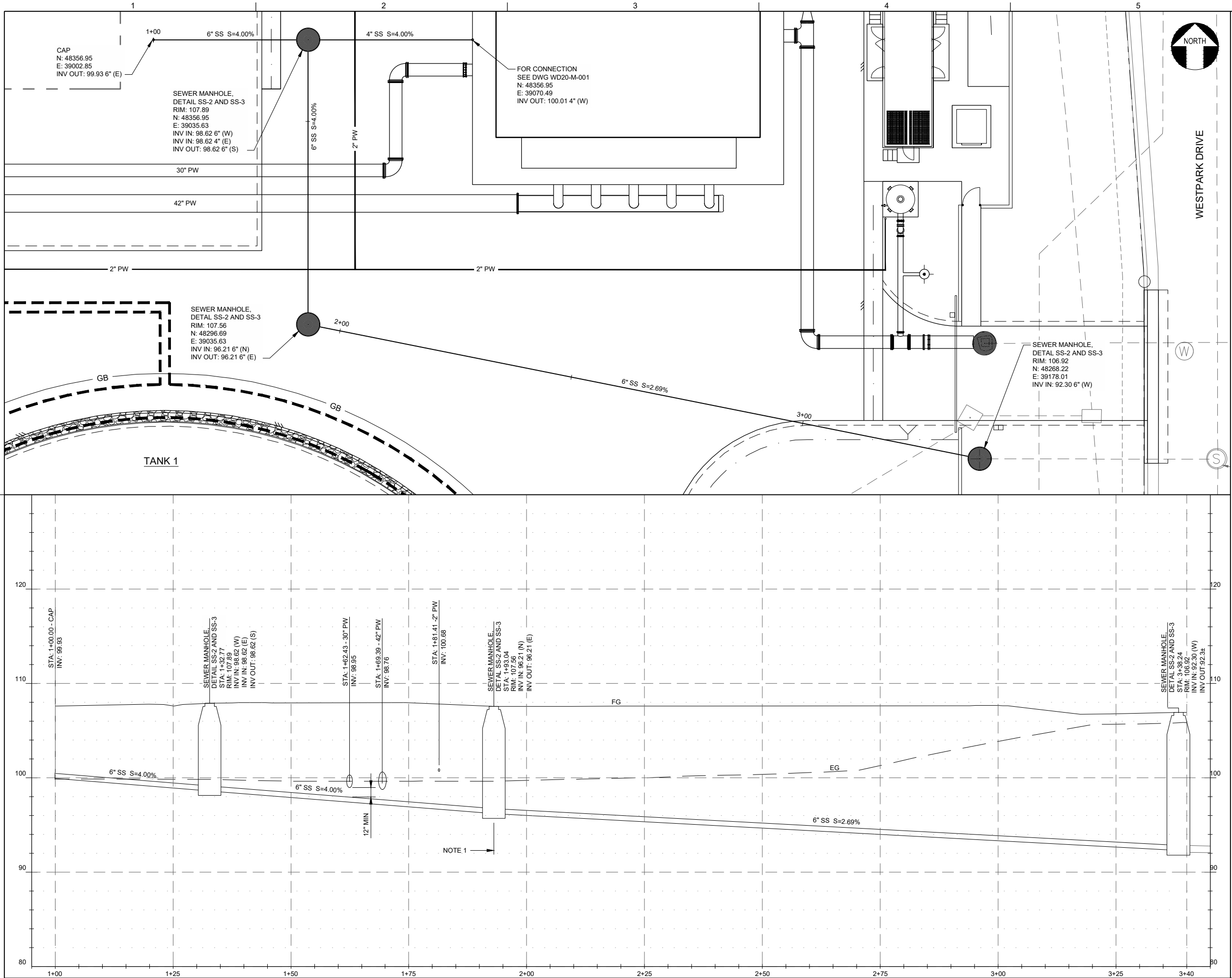
- 30 MIL LINER SHALL BE CUT/FITTED TO PROVIDE A UNIFORM LAYER OF LINER MATERIAL AGAINST TANK WALL. LINER SHALL HAVE A MAX OF 1 FOLD THICKNESS (3 LAYERS OF LINER) AT ANY POINT AROUND TANK.
- LINER SHALL BE HELD TIGHT TO TANK WALL BY TENSIONED BULL TAPE. MINIMUM OF 2 HORIZONTAL WRAPS REQUIRED @ 4" VERTICAL SPACING.
- SEAL TOP EDGE OF 30 MIL LINER TO SHOTCRETE WITH SIKAFLEX 1A.
- INSTALL 12" WIDE X 24" LONG LAYER OF GEOTEXTURE FABRIC AT ALL PIPE JOINTS. TO PROTECT 30 MIL LINER BELOW



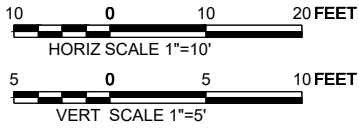
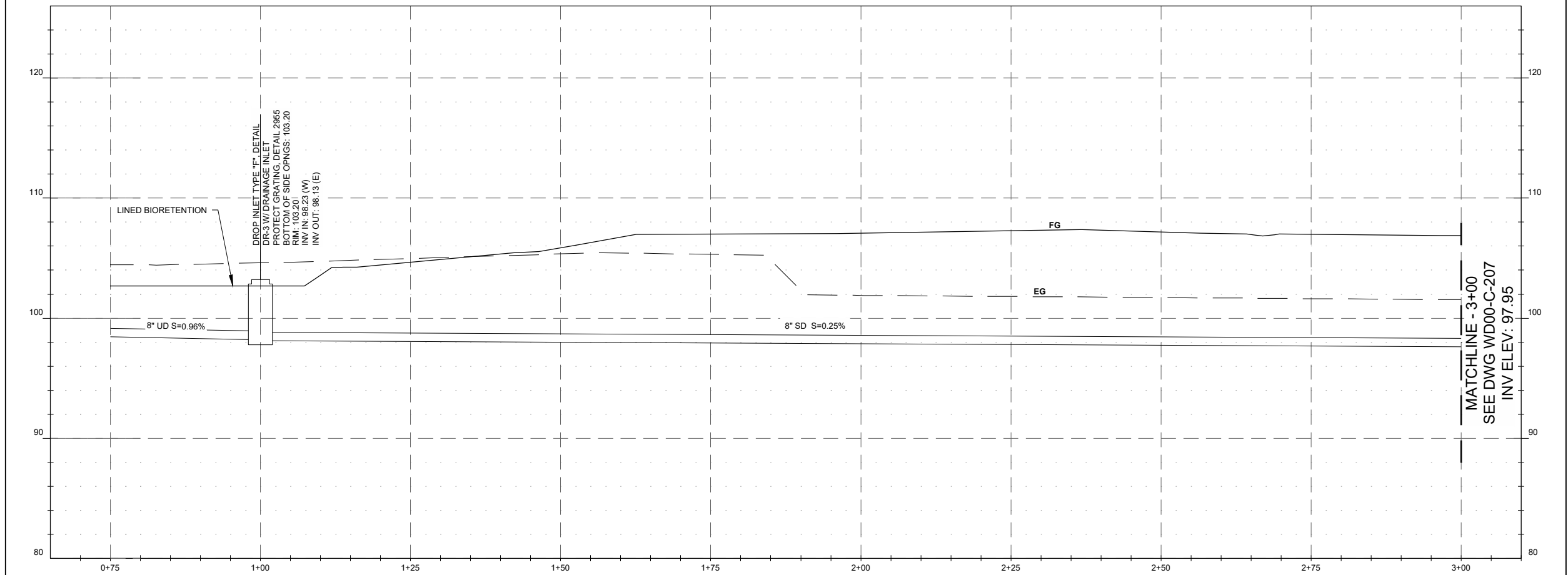
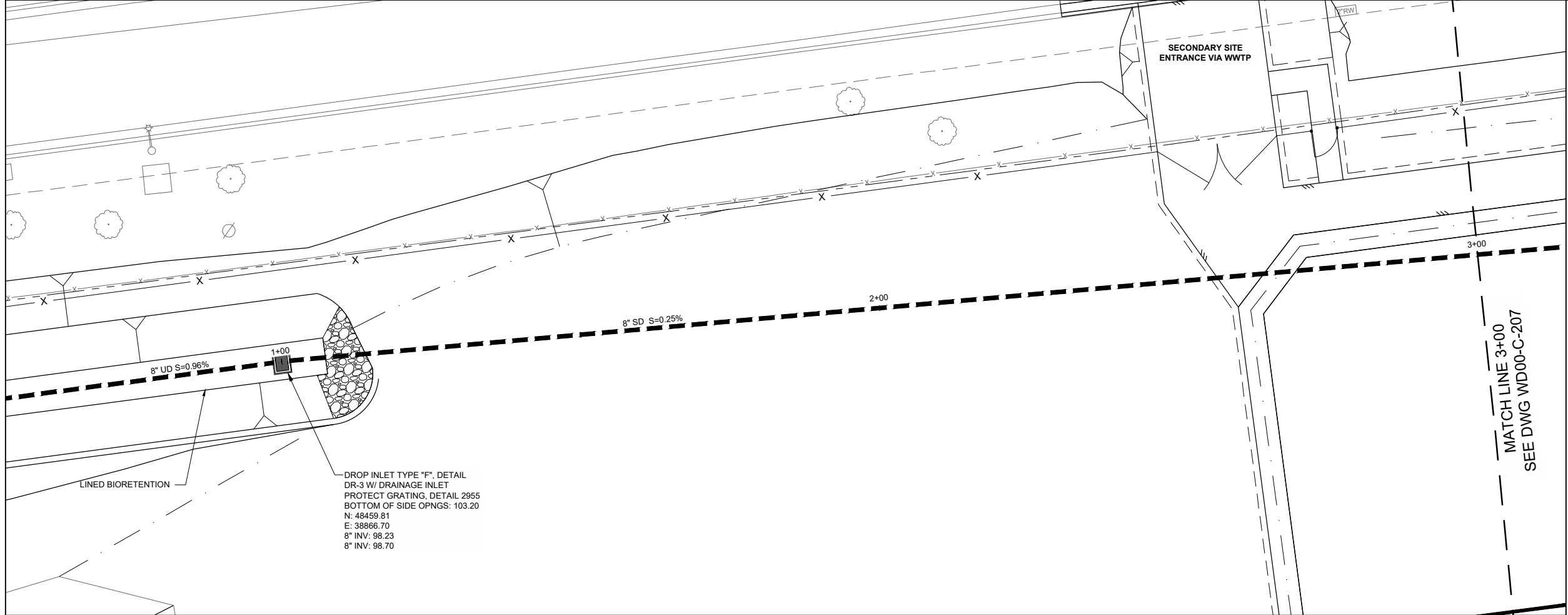
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DESIGN P WEBSTER	 CITY OF ROSEVILLE CALIFORNIA	WATERWORKS ENGINEERS 2260 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-9888		CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	SECTIONS AND DETAILS	DATE NOVEMBER 2019
DRAWN P WEBSTER						PROJECT NUMBER 17-083
CHECKED C BERTSCH						DRAWING NUMBER WD00-C-204
APPROVED M FISHER						SHEET NUMBER 67

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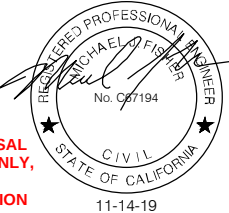
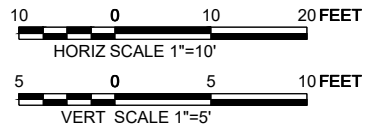
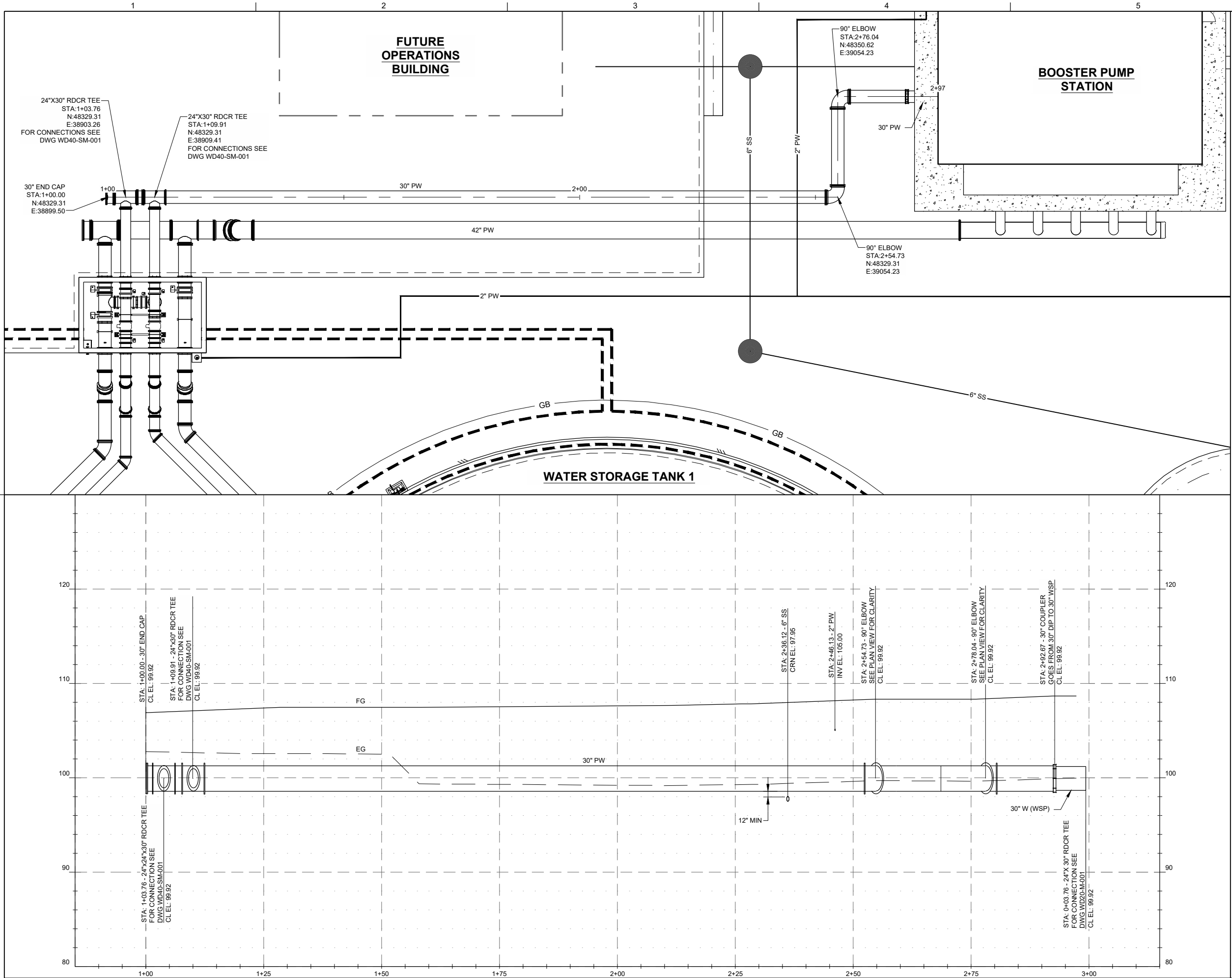
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DESIGN P WEBSTER				WATERWORKS ENGINEERS 2260 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-9888
DRAWN P WEBSTER				
CHECKED C BERTSCH				
APPROVED M FISHER				
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA				
YARD PIPING STORM DRAIN PLAN AND PROFILE NORTH - BEG TO 2+75				
DATE NOVEMBER 2019				
PROJECT NUMBER 17-083				
DRAWING NUMBER WD00-C-206				
SHEET NUMBER 69				

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CONSTRUCTION

JOB NUMBER: 17-083

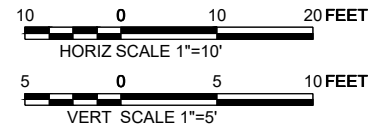
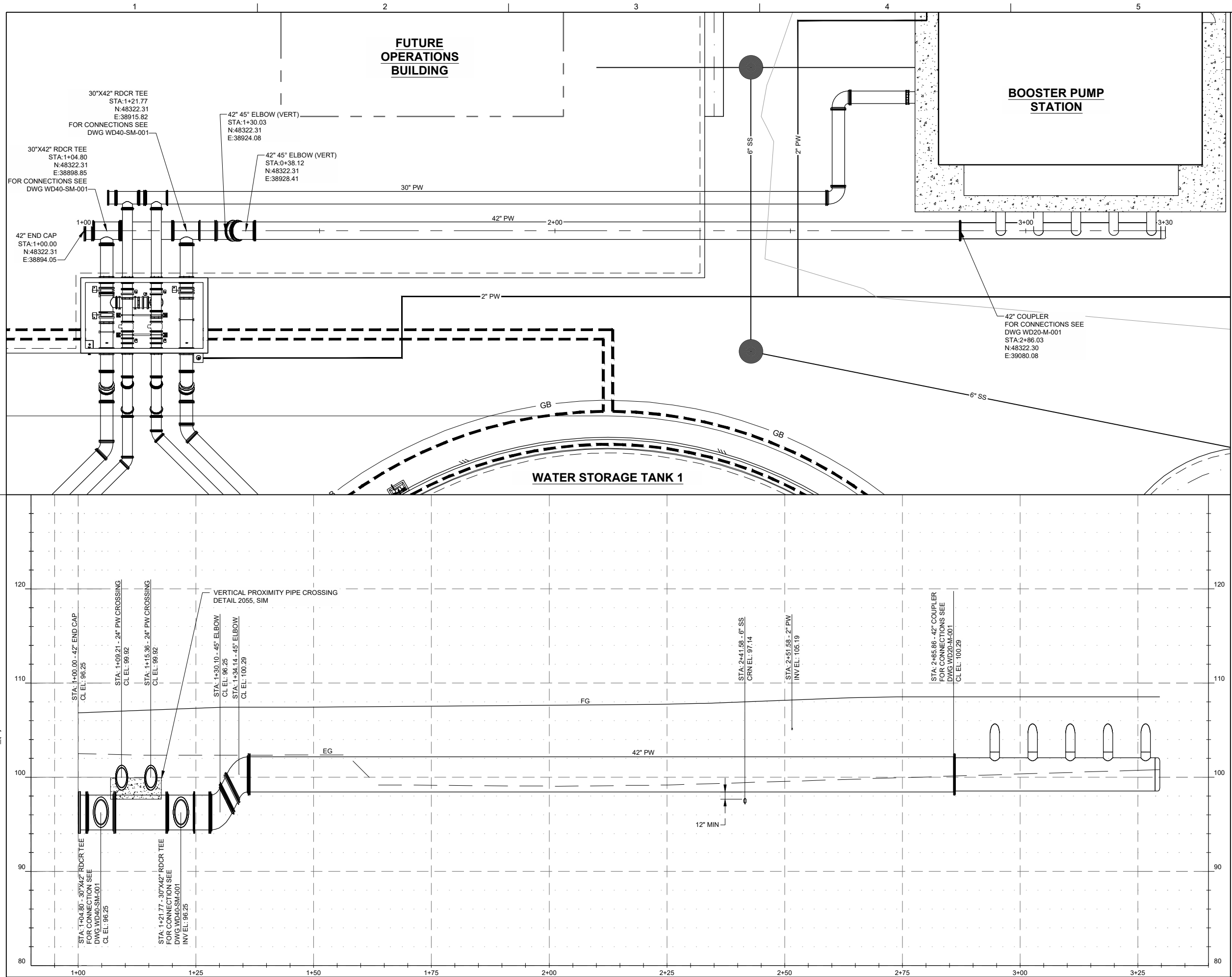
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PLOT DATE: 11/7/19

PLOT TIME: 14:00:09

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DRAWN P WEBSTER					PROJECT NUMBER 17-083
CHECKED C BERTSCH					DRAWING NUMBER WD00-C-208
APPROVED M FISHER					SHEET NUMBER 71

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CONSTRUCTION

JOB NUMBER: 17-083

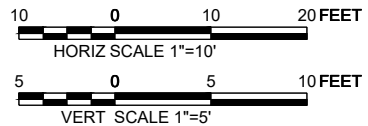
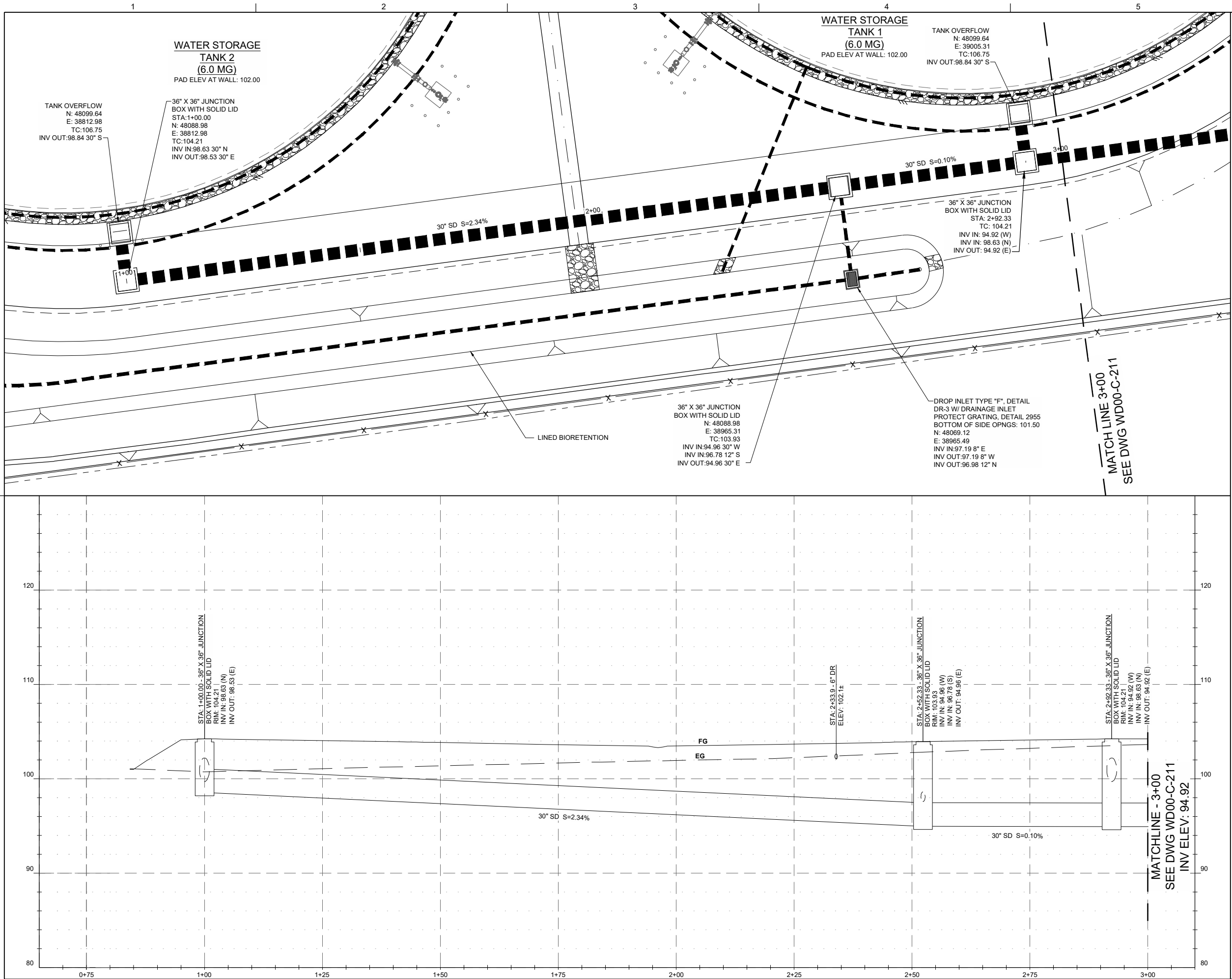
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PLOT DATE: 11/7/19

PLOT TIME: 14:00:28

DESIGN P WEBSTER	CITY OF ROSEVILLE ENGINEERS 2280 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-790-9888	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	YARD PIPING 42 INCH PW PLAN AND PROFILE	DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD00-C-209 SHEET NUMBER 72
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DESIGN P WEBSTER	 CITY OF ROSEVILLE CALIFORNIA	WATERWORKS ENGINEERS 2280 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-3888	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	YARD PIPING STORM DRAIN PLAN AND PROFILE SOUTH - BEG TO 3+00	DATE NOVEMBER 2019
DRAWN P WEBSTER					PROJECT NUMBER 17-083
CHECKED C BERTSCH					DRAWING NUMBER WD00-C-210
APPROVED M FISHER					SHEET NUMBER 73

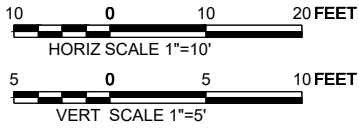
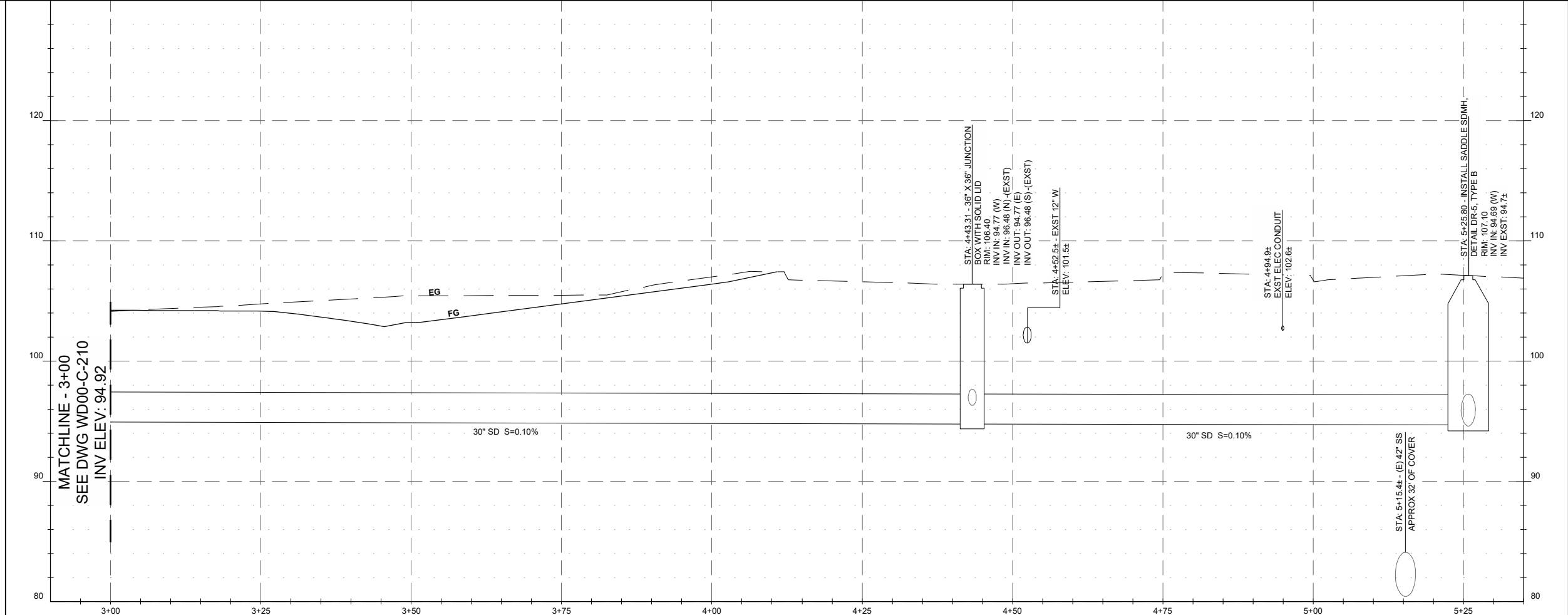
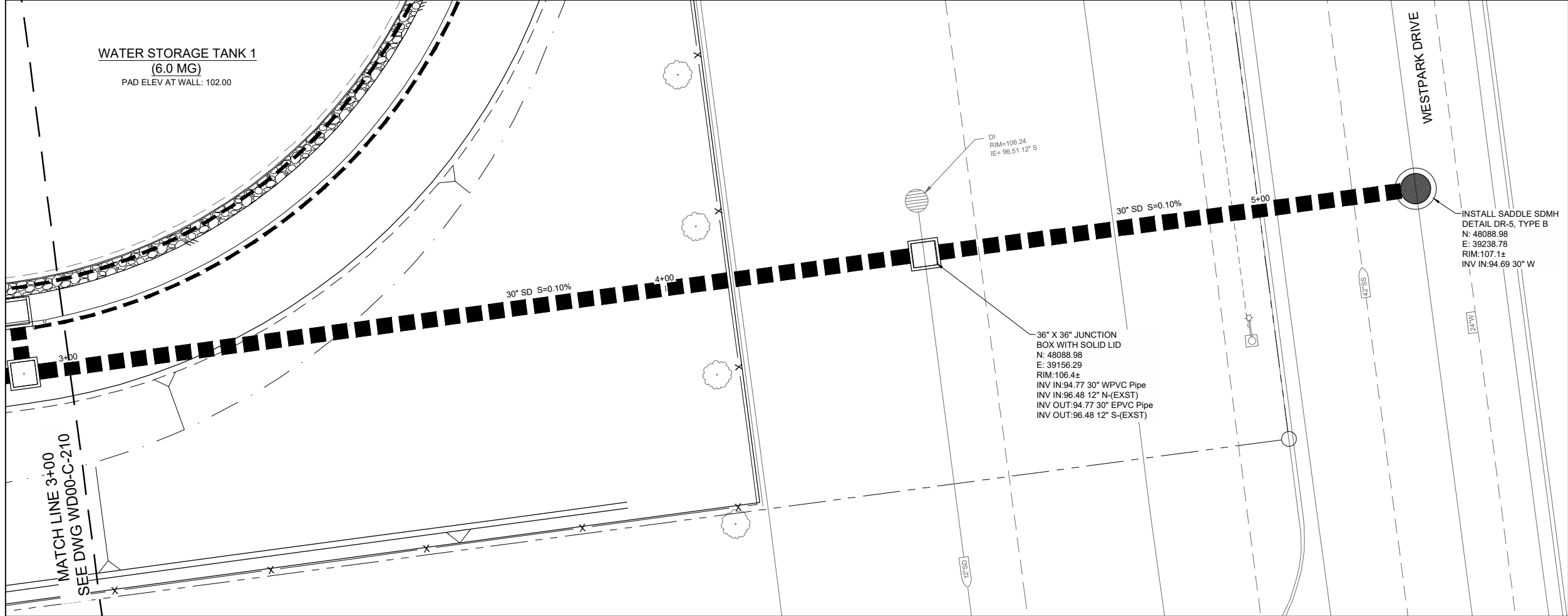
JOB NUMBER: 17-083

FILENAME: WD5400C210.DWG

PLOT DATE: 11/7/19

PLOT TIME: 14:01:09

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CONSTRUCTION

JOB NUMBER: 17-083

FILENAME: WD5400C211.DWG

PLOT DATE: 11/7/19

PLOT TIME: 14:01:27

DESIGN P. WEBSTER		CITY OF ROSEVILLE ENGINEERS 2260 Douglas Blvd., Suite 105 • Roseville, CA 95661 • 916-780-9888	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	YARD PIPING STORM DRAIN PLAN AND PROFILE SOUTH - 3+00 TO END	DATE NOVEMBER 2019
DRAWN P. WEBSTER					PROJECT NUMBER 17-083
CHECKED C. BERTSCH					DRAWING NUMBER WD00-C-211
APPROVED M. FISHER					SHEET NUMBER 74

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CITY OF ROSEVILLE RECYCLED WATER SPECIAL ON SITE IRRIGATION NOTES:

- THE INSTALLATION OF THE RECYCLED WATER SYSTEM SHALL CONFORM TO THE REGULATIONS FOR THE CONSTRUCTION OF RECYCLED WATER SYSTEMS WITHIN THE CITY OF ROSEVILLE AND THE ACCOMPANYING PLANS AND SPECIFICATIONS.
- ALL ON-SITE RECYCLED AND POTABLE WATER PIPING INSTALLED ON THIS PROJECT SHALL BE IDENTIFIED IN ACCORDANCE WITH THE CITY OF ROSEVILLE CONSTRUCTION STANDARDS FOR RECYCLED WATER INFRASTRUCTURE AND THE IRRIGATION SPECIFICATIONS.
- CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT SHALL BE NOTIFIED TWO DAYS PRIOR TO THE START OF CONSTRUCTION AT (916) 774-5750 AND EACH WORKDAY THEREAFTER UNTIL COMPLETION OF PROJECT FOR COMMERCIAL IRRIGATION SYSTEMS. CITY OF ROSEVILLE PARKS DEPARTMENT SHALL BE NOTIFIED TWO DAYS PRIOR TO THE START OF CONSTRUCTION AT (916) 746-1758 FOR LANDSCAPE CORRIDORS AND PARKS. A PRE-CONSTRUCTION MATERIALS INSPECTION MUST BE ARRANGED PRIOR TO THE START OF CONSTRUCTION.
- NO FACILITY IS TO BE BACKFILLED UNTIL INSPECTED BY THE CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT AND/OR PARKS DEPARTMENT INSPECTOR.
- ALL RECYCLED WATER INFRASTRUCTURE, BOTH ON-SITE AND OFF-SITE SHALL BE INSPECTED BY CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES AND/OR PARKS DEPARTMENT. FOR INSPECTION OF RECYCLED WATER SYSTEM CONTACT ENVIRONMENTAL UTILITIES AT 774-5750 FORTY- EIGHT (48) HOURS IN ADVANCE. POINTS OF INSPECTION ARE:
 - PRE-CONSTRUCTION MATERIALS INSPECTION.
 - IRRIGATION SYSTEM INSTALLATION BEFORE LINES ARE COVERED.
 - PRESSURE TESTING.
 - SYSTEM CROSS CONNECTION CONTROL TEST.
 - SYSTEM COVERAGE TEST.
- ALL RECYCLED WATER PIPING SHALL BE PURPLE COLORED PVC UNLESS OTHERWISE SPECIFIED. WHERE PURPLE PVC IS NOT USED, PIPE SHALL BE IDENTIFIED (MARKED) IN ACCORDANCE WITH THE CITY OF ROSEVILLE CONSTRUCTION STANDARDS.
- MARKING ON THE PURPLE COLORED PVC PIPE SHALL INCLUDE THE FOLLOWING:

"CAUTION: RECYCLED WATER- DO NOT DRINK". NOMINAL PIPE SIZE. PVC-1120. PRESSURE RATING IN POUNDS PER SQUARE INCH AT 73 DEGREES. ASTM DESIGNATIONS SUCH AS 1785, 2241, 1672, 3139. PRINTING SHALL BE PLACED CONTINUOUSLY ON TWO SIDES OF THE PIPE.
- ALL RECYCLED WATER SPRINKLER CONTROL VALVES, VALVE RISERS, SPRINKLER RISERS, AND SWING JOINTS SHALL BE TAGGED WITH IDENTIFICATION TAGS OR ADHESIVE LABELS AS FOLLOWS:
 - TAGS SHALL BE WEATHERPROOF PLASTIC, 3" X 4", PURPLE COLOR WITH THE WORDS "WARNING: RECYCLED WATER- DO NOT DRINK" IMPRINTED ON ONE SIDE, AND "AVISA: AGUA IMPURA- NO TOMAR" ON THE OTHER SIDE. IMPRINTING SHALL BE PERMANENT AND BLACK IN COLOR. USE TAGS AS MANUFACTURED BY T. CHRISTY ENTERPRISES OR APPROVED EQUAL.
 - ONE TAG SHALL BE ATTACHED TO EACH VALVE AS FOLLOWS:
 - ATTACH TO VALVE STEM DIRECTLY OR WITH PLASTIC TIE-WRAP, OR
 - ATTACH TO SOLENOID WIRE DIRECTLY OR WITH PLASTIC TIE-WRAP.
 - RECYCLED WATER WARNING LABELS OR STICKERS THAT ARE CONSISTENT WITH CITY OF ROSEVILLE CONSTRUCTION STANDARDS FOR RECYCLED WATER INFRASTRUCTURE AND THE IRRIGATION SPECIFICATIONS MUST BE ATTACHED TO ALL PIPING NOT IN COMPLIANCE.
 - ALL SPRINKLER HEADS MUST BE DESIGNED FOR RECYCLED WATER USAGE, WITH PURPLE RECYCLED WATER WARNING CAPS.
 - SPRINKLER RISERS AND SWING JOINTS SHALL BE IDENTIFIED WITH PURPLE ADHESIVE 3" X 3" LABELS. EACH LABEL SHALL STATE "RECYCLED WATER - DO NOT DRINK" IN ENGLISH AND SPANISH.
- ALL RECYCLED WATER CONTROL VALVE BOXES SHALL BE PURPLE AND HAVE A WARNING LABEL PERMANENTLY MOLDED INTO OR AFFIXED ONTO THE LID WITH RIVETS, BOLTS, ETC. WARNING LABELS SHALL BE CONSTRUCTED OF A PURPLE WEATHERPROOF MATERIAL WITH THE WARNING PERMANENTLY STAMPED OR MOLDED INTO THE LABEL. THE WARNING SHALL CONTAIN THE FOLLOWING INFORMATION:
 - "NON-POTABLE" OR "RECYCLED WATER".
 - "DO NOT DRINK" IN ENGLISH AND SPANISH.
- RECYCLED WATER QUICK COUPLING VALVES SHALL HAVE A PURPLE RUBBER OR VINYL COVER. THE COVER SHALL BE OF A LOCKING TYPE AND HAVE A WARNING PERMANENTLY STAMPED OR MOLDED AS FOLLOWS: "RECYCLED WATER- DO NOT DRINK" IN ENGLISH AND SPANISH.
- PLASTIC WARNING TAPE SHALL BE USED ON ALL POTABLE WATER PIPING, POTABLE WATER WARNING TAPE SHALL BE A MINIMUM OF 3 INCHES WIDE AND SHALL RUN CONTINUOUSLY FOR THE ENTIRE LENGTH OF EACH LINE. THE TAPE SHALL BE ATTACHED TO THE TOP OF THE PIPE WITH NYLON TIE-WRAP BANDED AROUND THE WARNING TAPE AND THE PIPE EVERY FIVE FEET ON CENTER. WARNING TAPE FOR THE POTABLE WATER PIPING SHALL BE BLUE IN COLOR WITH WORDS "CAUTION: POTABLE WATER LINE BURIED BELOW" IMPRINTED IN MINIMUM 1-INCH HIGH LETTERS, BLACK IN COLOR. IMPRINTING SHALL BE CONTINUOUS AND PERMANENT.
- ALL PRESSURE MAIN LINE PIPING FROM THE RECYCLED WATER SYSTEM SHALL BE INSTALLED TO MAINTAIN 10 FEET MINIMUM HORIZONTAL SEPARATION FROM ALL POTABLE WATER PIPING. WHERE RECYCLED AND POTABLE WATER PRESSURE MAIN LINE PIPING CROSS, THE RECYCLED WATER PIPING SHALL BE INSTALLED 12" BELOW THE POTABLE WATER PIPING OD TO OD. WHERE THE RECYCLED WATER PRESSURE MAIN LINE MUST PASS ABOVE POTABLE WATER PIPING, THE RECYCLED WATER PIPING SHALL INSTALLED IN A CLASS 200 PURPLE COLORED PVC SLEEVE WHICH EXTENDS A MINIMUM OF FIVE FEET ON EITHER SIDE OF THE POTABLE WATER PIPING. A 12" VERTICAL SEPARATION OD TO OD MUST BE MAINTAINED. CONVENTIONAL (WHITE) PVC PIPE MAY BE USED FOR SLEEVING MATERIAL IF IT IS TAPED WITH THREE-INCH WIDE PURPLE WARNING TAPE, WHICH READS "RECYCLED WATER- DO NOT DRINK".
- ALL PRESSURE MAIN LINE PIPING FROM THE RECYCLED WATER SYSTEM SHALL BE INSTALLED TO MAINTAIN A TEN FOOT MINIMUM HORIZONTAL SEPARATION FROM ALL SANITARY SEWER LINES. WHERE RECYCLED AND SEWER CROSS, THE RECYCLED WATER PIPING SHALL BE INSTALLED A MINIMUM OF ONE FOOT ABOVE SEWER.
- FOR ON-SITE RECLAIMED WATER PIPING, THE MINIMUM DEPTH FROM FINISH GRADE TO TOP OF PIPE SHALL BE AS FOLLOWS:
 - INTERMITTENT PRESSURE LINES (ALL SIZES) - 12"
 - CONSTANT PRESSURE LINES 2.5" AND SMALLER - 18"
 - CONSTANT PRESSURE LINES 3" AND LARGER - 24"

CONT:

- PRESSURE AND CROSS CONNECTION TESTING FOR ON-SITE RECYCLED WATER SYSTEMS:
 - ALL TESTING OF RECYCLED WATER SYSTEMS MUST BE PERFORMED UTILIZING A POTABLE WATER SOURCE VIA A CONSTRUCTION WATER CONNECTION PER CITY OF ROSEVILLE CONSTRUCTION STANDARDS. NO RECYCLED WATER MAY ENTER A RECYCLED WATER SYSTEM UNTIL ALL TESTING IS SUCCESSFULLY COMPLETED.
 - THE SOURCE OF POTABLE WATER USED FOR TESTING MUST HAVE A METER AND AN APPROVED BACK FLOW PREVENTION DEVICE. THESE CAN BE OBTAINED THROUGH THE CITY OF ROSEVILLE.
 - THE CONTRACTOR SHALL PROVIDE A MEANS TO PLUMB IN PRESSURE AND CROSS CONNECTION TESTING APPARATUS AT THE POINT OF HIGHEST ELEVATION, FOR BOTH POTABLE AND CONSTANT PRESSURE RECYCLED WATER SYSTEMS.
 - THE CONSTANT PRESSURE RECYCLED WATER SYSTEM INCLUDING ALL APPURTENANCES SHALL BE TESTED AT 125 PSI AT HIGHEST POINT OF ELEVATION FOR 1 HOUR WITH NO DETECTABLE LEAKAGE.
 - PRESSURE TESTING MUST BE SUCCESSFULLY COMPLETED PRIOR TO CROSS CONNECTION TESTING.
 - THE RECYCLED WATER SYSTEM SHALL BE TESTED FOR CROSS-CONNECTION IN ACCORDANCE WITH UNIFORM PLUMBING CODE APPENDIX J PRIOR TO USE.
 - FOR PROJECTS BEING PERFORMED IN PHASES, A CROSS CONNECTION TEST SHALL BE PERFORMED ON EACH PHASE INDEPENDENTLY, BEFORE IT IS PUT INTO SERVICE. THE POTABLE WATER SOURCE USED FOR TESTING EACH PHASE MUST BE INDEPENDENT OF OTHER PREVIOUSLY COMPLETED PHASES.
 - AT THE TIME A CROSS CONNECTION TEST IS TO BE PERFORMED, CONSTRUCTION ON BOTH THE POTABLE AND THE RECYCLED WATER SYSTEMS BEING TESTED MUST BE COMPLETE, AND BOTH SYSTEMS FULLY OPERATIONAL AND FUNCTIONING AS DESIGNED.
 - CROSS CONNECTION TESTING SHALL BE PERFORMED ON THE SYSTEM BY CITY FORCES WITH THE ASSISTANCE OF THE CONTRACTOR. THE TEST WILL BE COORDINATED THROUGH THE ENVIRONMENTAL UTILITIES OR PARKS DEPARTMENT INSPECTOR. FORTY-EIGHT (48) HOURS NOTICE IS REQUIRED BEFORE THE TEST. DEPENDING ON THE COMPLEXITY OF THE SITE, A PRELIMINARY FIELD MEET MAY ALSO BE REQUIRED.
- COVERAGE TEST:
 - ADJUST SPRAY HEADS TO ELIMINATE OVERSPRAY ONTO NATIVE OAK AREAS AND INTO AREAS NOT UNDER THE CONTROL OF THE CUSTOMER. FOR EXAMPLE: POOL DECKS, PRIVATE PATIOS, STREETS AND SIDEWALKS.
- METER INSTALLATION:
 - ONCE THE ON-SITE RECYCLED WATER SYSTEM HAS BEEN PROPERLY INSPECTED AND PASSED PRESSURE AND CROSS CONNECTION TESTING, A METER MAY BE INSTALLED. THE METER MUST BE PURCHASED FROM THE CITY OF ROSEVILLE AND INSTALLED BY CITY FORCES. COORDINATE METER PURCHASE AND INSTALLATION WITH THE ENVIRONMENTAL UTILITIES OR PARKS DEPARTMENT INSPECTOR.
- NO CONNECTION SHALL BE MADE TO THE CITY'S EXISTING RECYCLED WATER SYSTEM UNTIL THE NEW FACILITIES HAVE BEEN SUCCESSFULLY PRESSURE AND CROSS CONNECTION TESTED. TAPS TO THE EXISTING RECYCLED SYSTEM WILL BE MADE BY CITY FORCES ONLY.
- FAILURE TO COMPLY WITH ANY OR ALL OF THE ABOVE GUIDELINES VIOLATES THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS FOR RECYCLED WATER INFRASTRUCTURE AND WILL RESULT IN TERMINATION OF SERVICE UNTIL THE APPROPRIATE CORRECTIVE STEPS HAVE BEEN TAKEN.

GENERAL LANDSCAPE REQUIREMENTS/NOTES

- NO PLANTING SHALL BE STARTED UNTIL SPRINKLER IRRIGATION SYSTEM HAS BEEN TESTED BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE AND NOTED DEFICIENCIES CORRECTED.
- NO PLANTING SHALL BE STARTED UNTIL SOIL PREPARATION AND FINISH GRADING OPERATIONS HAVE BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- PLANT MATERIAL IS SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE

ENVIRONMENTAL REQUIREMENTS:

GENERAL: PROCEED WITH WORK IN ORDERLY AND TIMELY MANNER TO COMPLETE INSTALLATION OF LANDSCAPING WITHIN CONTRACT LIMITS.

PROTECTION:

LANDSCAPING: PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED AT NO ADDITIONAL COST TO CONTRACT.

ADVERSE CONDITIONS: WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE STARTING WORK.

PLANTING INSTALLATION SEASONS AND CONDITIONS PLANTING

NO WORK SHALL BE DONE WHEN GROUND IS FROZEN, TOO WET OR IN AN OTHERWISE UNSUITABLE CONDITION FOR AMENDING SOIL, FINISH GRADING OR PLANTING.

SOIL TESTING:

- COORDINATE SOIL TESTING IN AN EXPEDITIOUS AND TIMELY MANNER AS REQUIRED FOR ON-SITE MATERIALS. RESPONSIBILITY OF CONTRACTING WITH A SOIL LABORATORY SHALL BE BORNE BY CONTRACTOR. COST OF SAMPLING AND TESTING SHALL BE INCLUDED IN CONTRACT PRICE. SIX (6) SAMPLES ARE REQUIRED. CONTRACTOR TO COLLECT SAMPLES IN THE PRESENCE OF OWNER'S REPRESENTATIVE. SAMPLES LOCATIONS TO BE IDENTIFIED ON PLAN.
- EACH SAMPLE SHALL BE SUBMITTED TO A LABORATORY. THE LABORATORY MUST BE APPROVED BY THE OWNER. SUBMIT SAMPLE SIZES AS REQUIRED BY LABORATORY.
- AS A MINIMUM, SOIL SAMPLES SHALL BE ANALYZED FOR: PH, SALINITY, AMMONIA, PHOSPHATE, POTASSIUM, CALCIUM, MAGNESIUM, BORON, AND SODIUM LEVELS. LABORATORY TO PROVIDE APPRAISAL OF CHEMICAL OF PROPERTIES, INCLUDING PARTICLE SIZE AND RECOMMENDATIONS FOR TYPES AND QUANTITIES OF AMENDMENTS AND FERTILIZERS.

SPRINKLER IRRIGATION NOTES:

- SPRINKLER SYSTEM SHALL COMPLY WITH CITY OF ROSEVILLE PARKS AND RECREATION DEPT REQUIREMENTS.
- DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
- ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
- TESTING:
 - PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS: SYSTEMS WITH OUT BOOSTER PUMP:

MAIN LINE - AT STATIC PSI FOR 4 HOURS.

LATERAL LINES - AT STATIC PSI FOR 2 HOURS.
 - COVERAGE TEST:

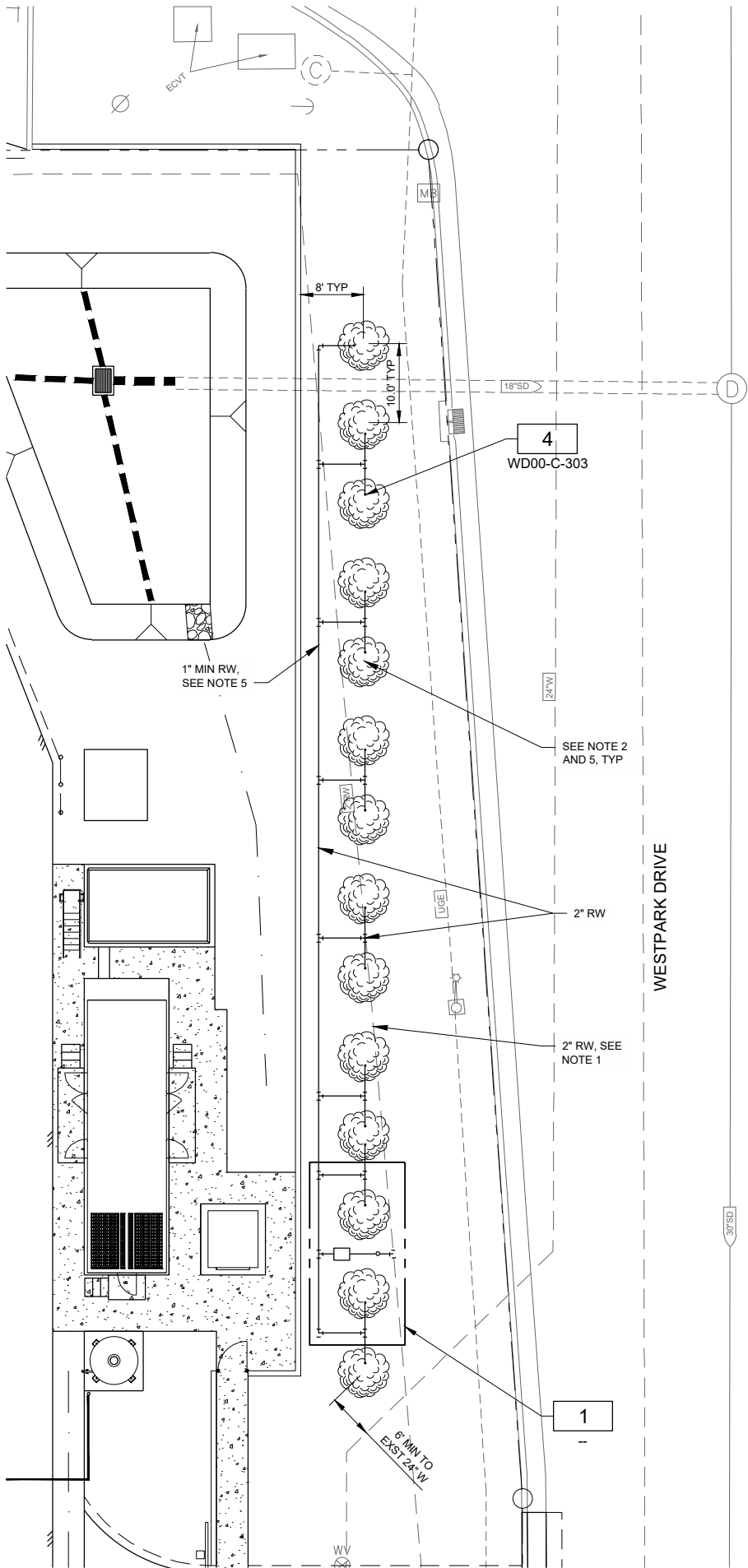
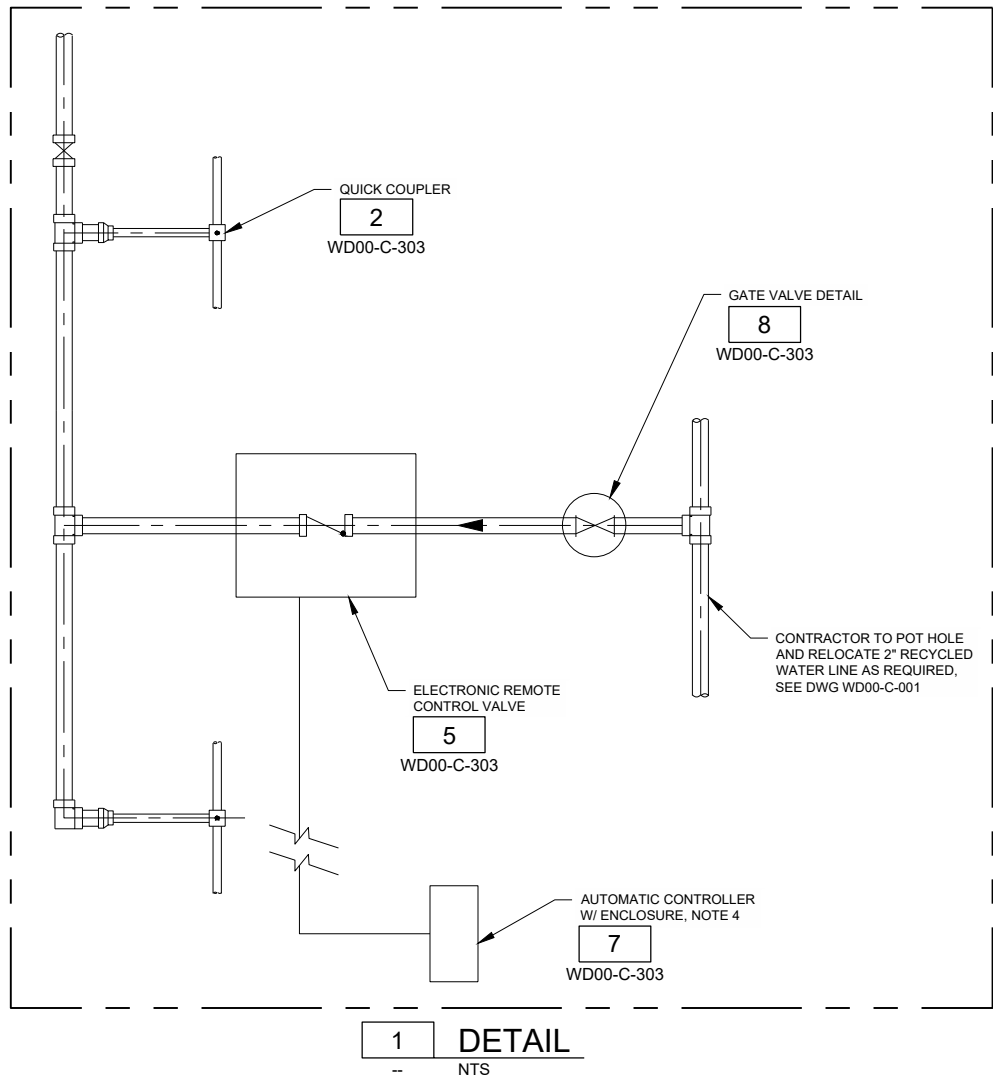
NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATION. REQUEST OWNER'S REPRESENTATIVES PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
- LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
- COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.



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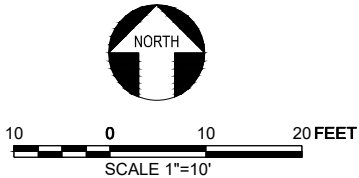
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
LANDSCAPING GENERAL LANDSCAPING NOTES			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-C-301			
SHEET NUMBER 75			

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NOTES:

- 2" RECYCLED WATER LINE EXACT DEPTH AND LOCATION IS UNKNOWN. CONTRACTOR SHALL FIELD VERIFY LOCATION PRIOR TO INSTALLING IRRIGATION SYSTEM.
- FIVE GALLON EUONYMUS COMPACTA AT 10 FOOT SPACING (14 TOTAL). PLANT 8 FEET FROM EXTERIOR WALL.
- INSTALL 3" LAYER OF MULCH OVER WEED BARRIER. SEE SPECIFICATION SECTION 02900.
- LOCATE CONTROLLER TO AVOID NEW LANDSCAPING. LOCATION SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROVIDE IRRIGATION SYSTEM AND LANDSCAPE PLANTING IN ACCORDANCE WITH APPROVED SUBMITTALS PER SPECIFICATION SECTION 02810 AND 02900.



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JOB NUMBER: 17-083

FILENAME: WD5400C302.DWG

PLOT DATE: 11/7/19

PLOT TIME: 14:01:50

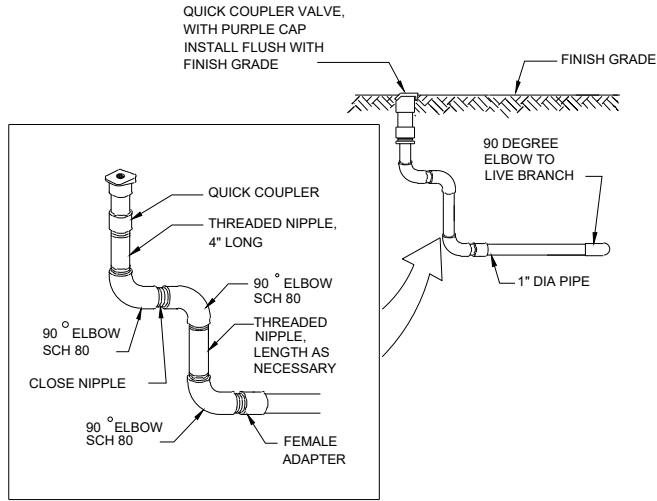


CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

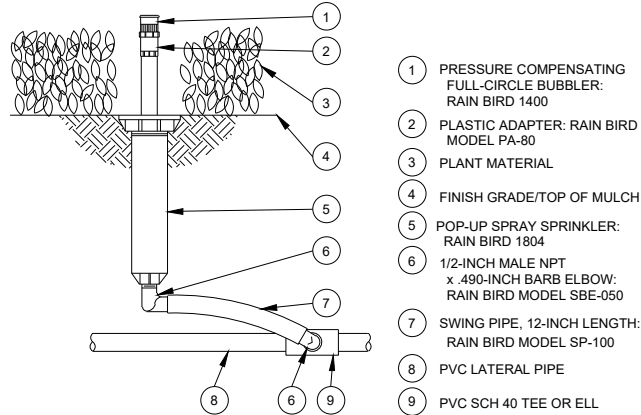
LANDSCAPING
LANDSCAPING AND IRRIGATION PLAN

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-C-302
SHEET NUMBER 76

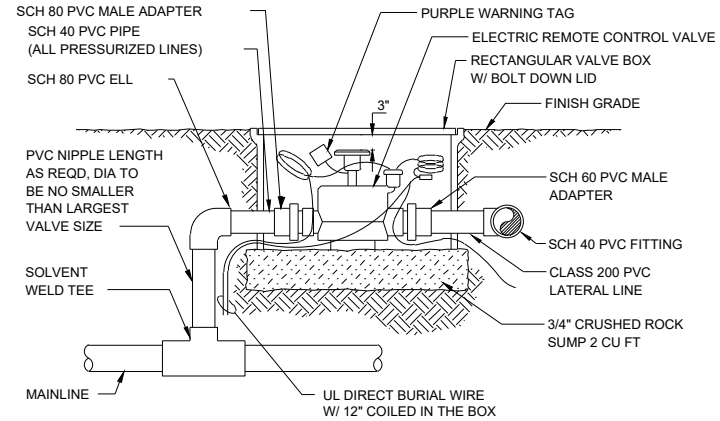
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APPROVED
M FISHER



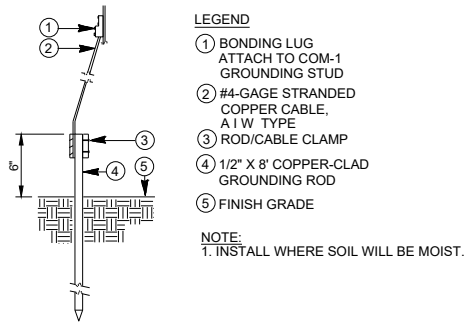
2 QUICK COUPLER VALVE DETAIL
WD00-C-302 NTS



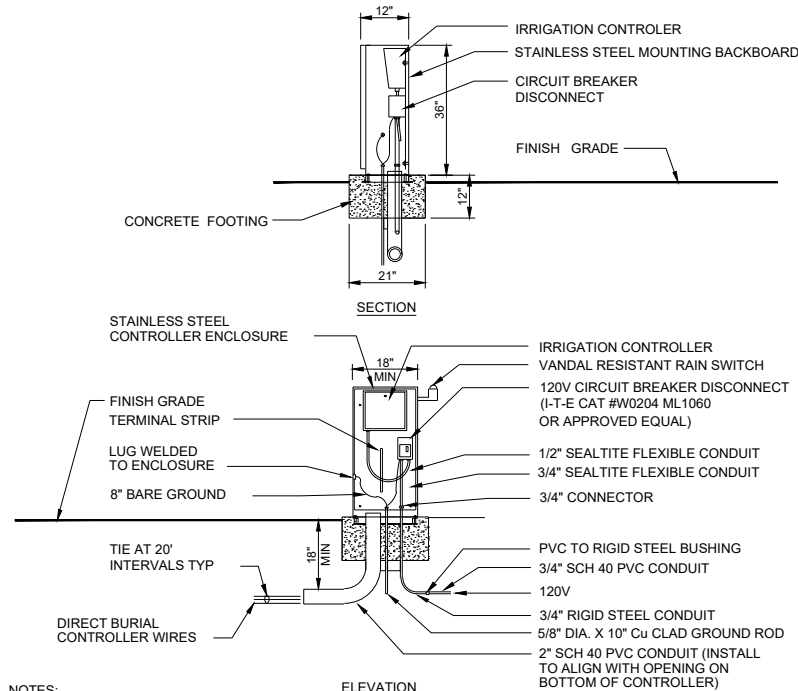
4 PRESSURE COMPENSATING FULL-CIRCLE BUBBLER DETAIL
WD00-C-302 NTS



5 ELECTRONIC REMOTE CONTROL VALVE DETAIL
WD00-C-302 NTS

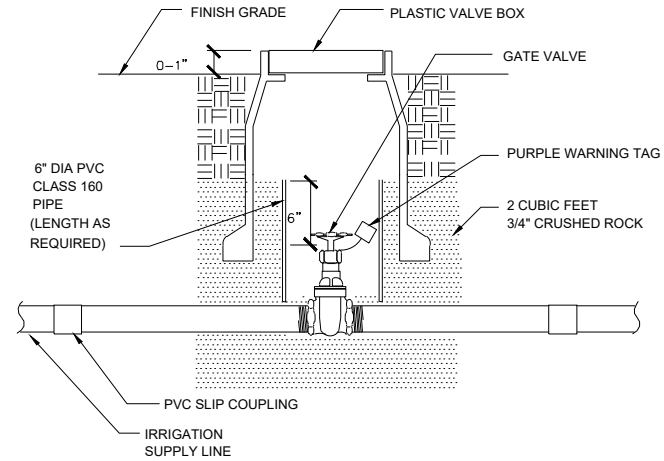


6 AUTOMATIC CONTROLLER GROUNDING ROD DETAIL
NTS

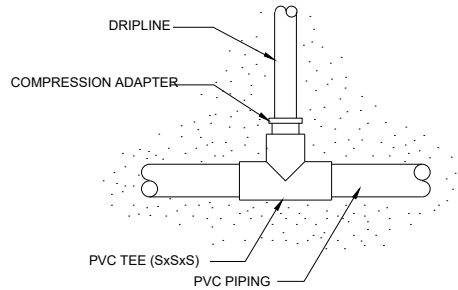


NOTES:
1. ALL ELECTRICAL WORK SHALL CONFORM TO CODES AND ORDINANCES.
2. EXACT PLACEMENT OF CONTROLLER SHALL BE COORDINATED WITH OWNER IN FIELD.

7 AUTOMATIC CONTROLLER DETAIL
WD00-C-302 NTS



8 GATE VALVE DETAIL
WD00-C-302 NTS



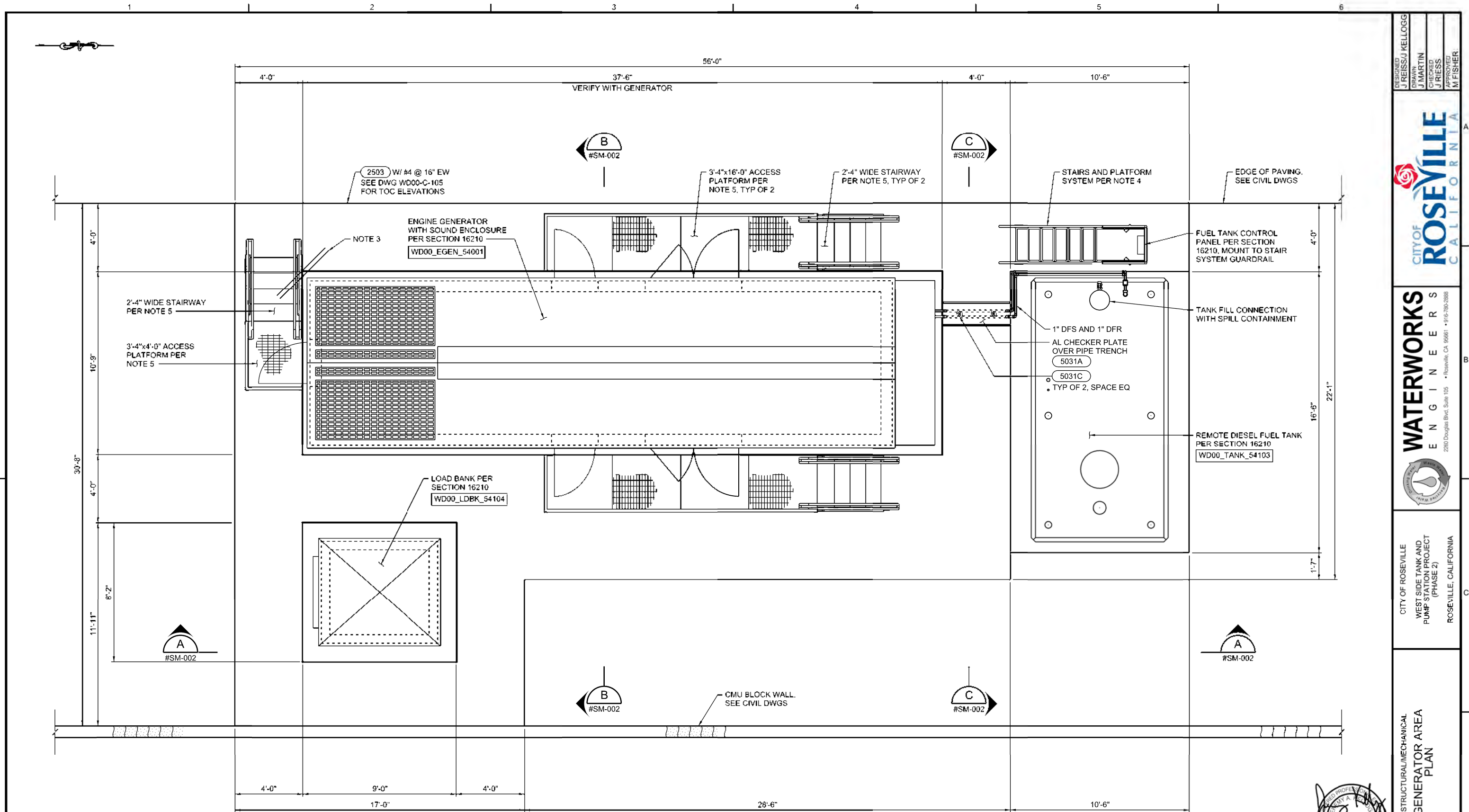
9 MANIFOLD CONNECTION (PVC TO ADAPTER) DETAIL
NTS



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11-14-19

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-C-303
SHEET NUMBER 77



PLAN
3/8" = 1'-0"

NOTES:

1. REPLACE "R" IN DRAWING WITH "WD00-".
2. GENERATOR, FUEL TANK AND FUEL PIPING APPROXIMATELY SHOWN, BASED ON KOHLER KD SERIES GENERATOR AND 5,200 GALLON CONVAULT FUEL TANK. ACTUAL LAYOUT TO BE BASED ON APPROVED SHOP DRAWINGS.
3. PROVIDE (2) #4x4'-0" DIAGONAL BAR AT ±3" SPACING. TYPICAL AT EACH REENTRANT CORNER.
4. WILDECK TANK ACCESS STAIRS W/ PLATFORM AP-736, OR APPROVED EQUAL. HOT DIP GALVANIZED FINISH.
5. WILDECK JIFFYSTAIR MODULAR STAIR SYSTEM, OR APPROVED EQUAL. PROVIDE CALIFORNIA COMPLIANT STAIR SYSTEM WITH GUARDRAIL ON THREE SIDES OF PLATFORM. COORDINATE ± 28" PLATFORM HEIGHT WITH APPROVED GENERATOR. HOT DIP GALVANIZED FINISH.

2 0 2 4 FEET
SCALE 3/8"=1'-0"

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DESIGNED
J REISS/J KELLOGG
DRAWN
J MARTIN
CHECKED
J REISS
APPROVED
M FISHER



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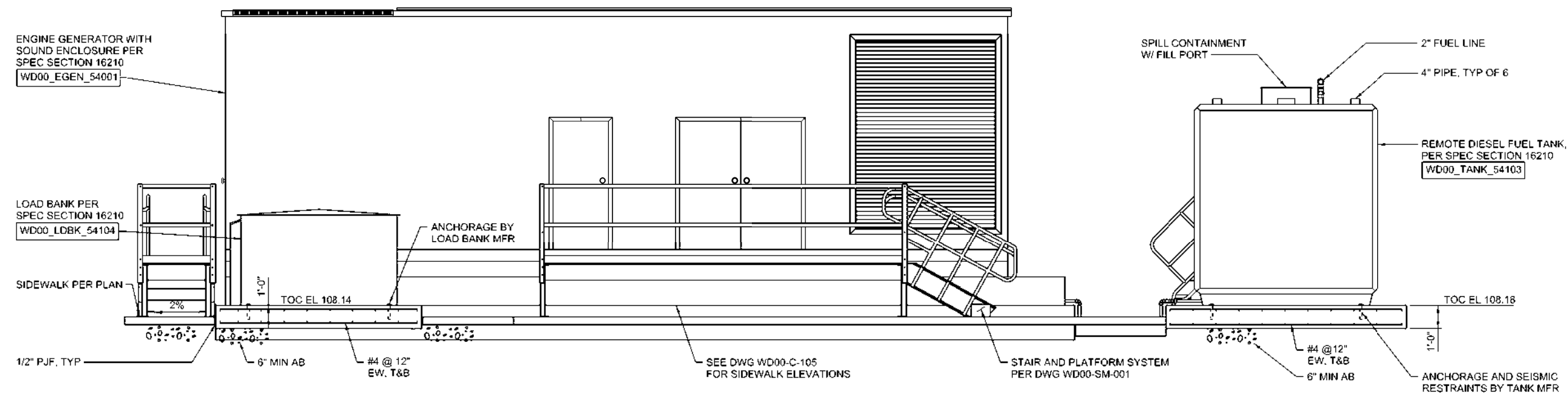


CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

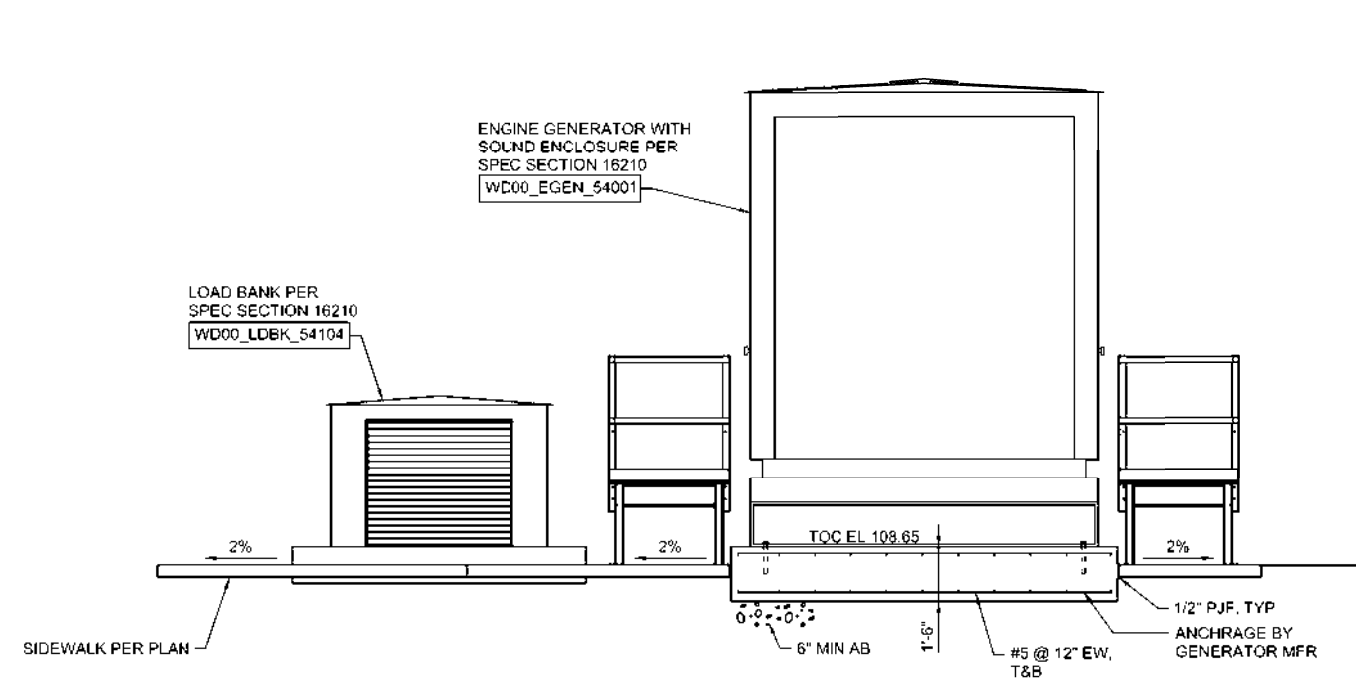
STRUCTURAL/MECHANICAL
GENERATOR AREA
PLAN

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-SM-001
SHEET NUMBER 78

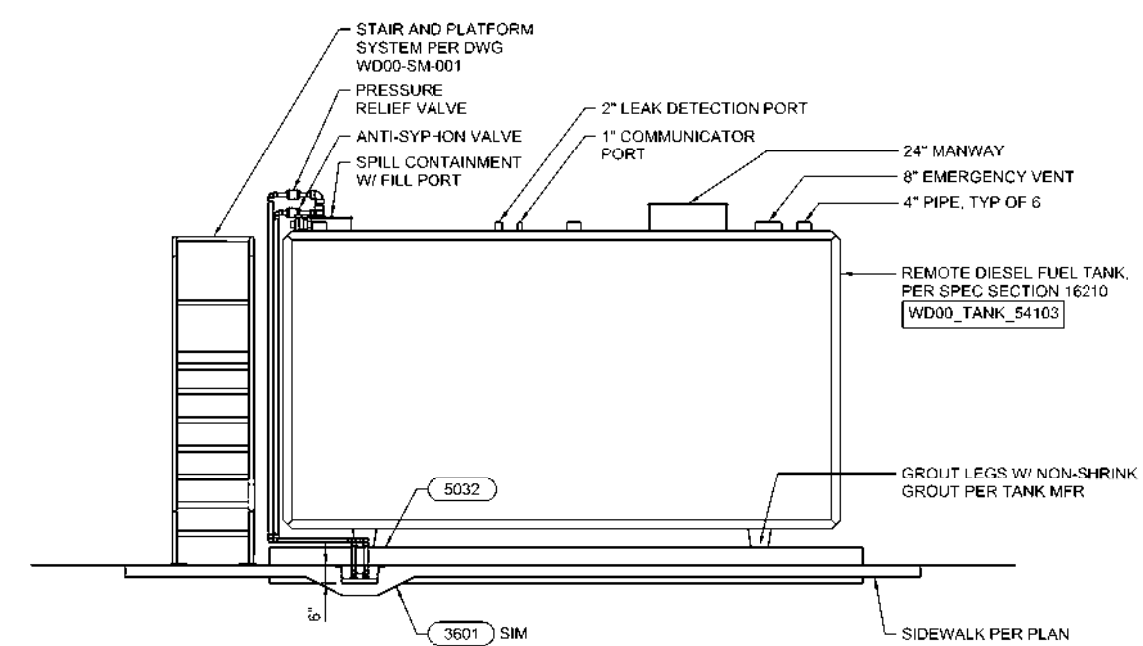
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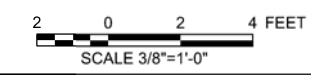
A SECTION
#SM-001 3/8" = 1'-0"



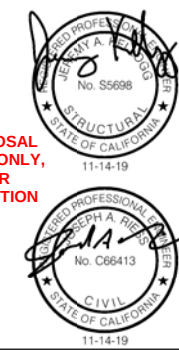
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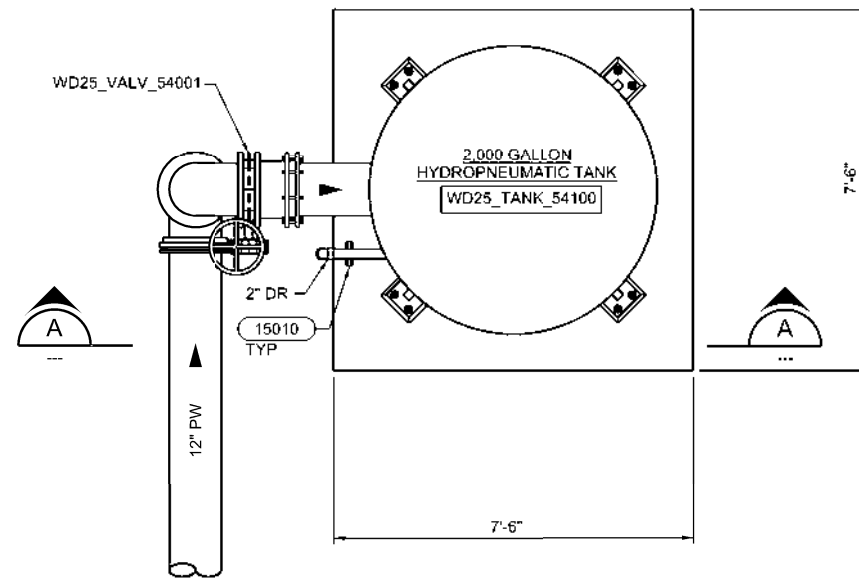
C SECTION
#SM-001 3/8" = 1'-0"



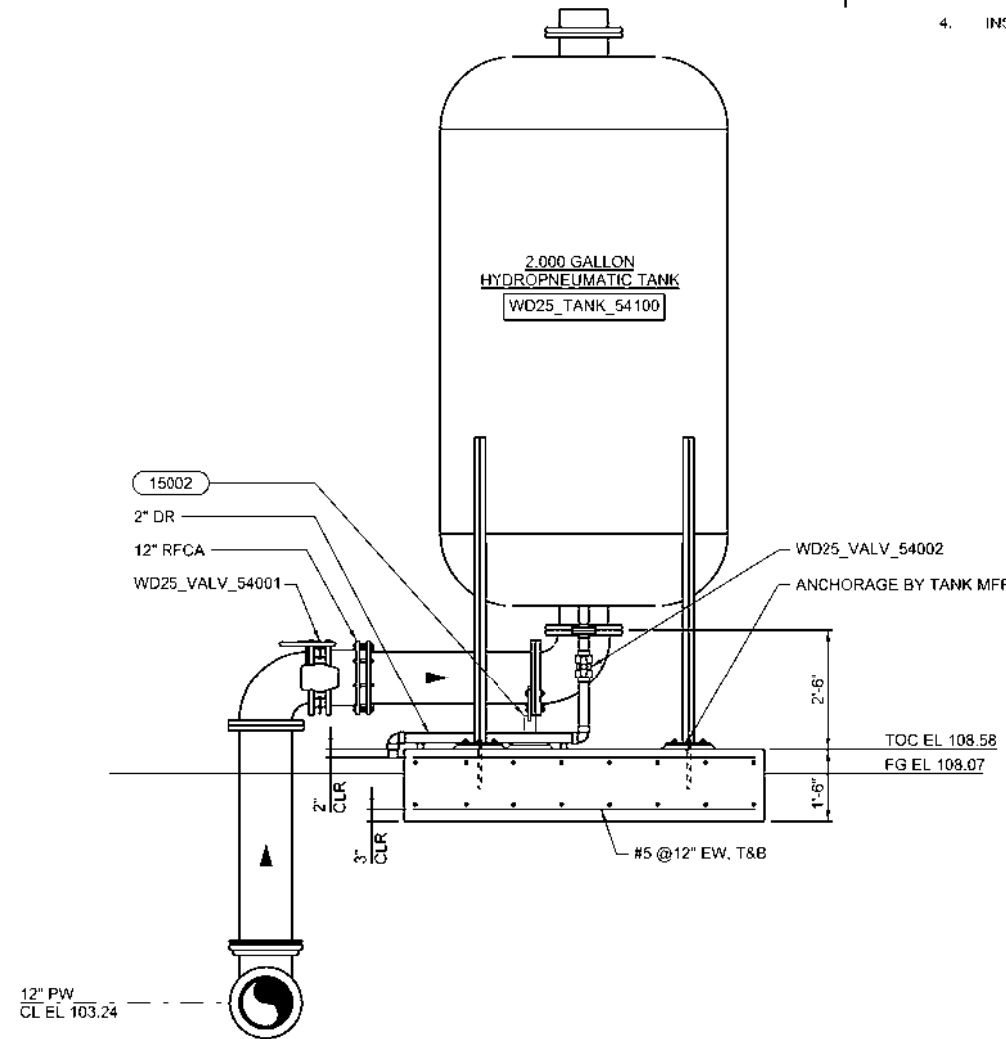
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DESIGNED J. R. KELLOGG 11-14-19	DRAWN J. MARTIN	CHECKED J. R. KELLOGG	APPROVED J. FISHER
CITY OF ROSEVILLE CALIFORNIA			
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 Roseville, CA 95661 • 916-780-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
STRUCTURAL / MECHANICAL GENERATOR AREA SECTIONS			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-SM-002			
SHEET NUMBER 79			



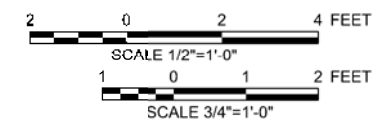
PLAN
1/2" = 1'-0"



SECTION A
1/2" = 1'-0"

NOTES:

1. CONTRACTOR TO VERIFY ALL TANK, SUPPORT, ANCHOR AND FOUNDATION DIMENSIONS WITH TANK MANUFACTURER PRIOR TO CONSTRUCTION.
2. PROVIDE STAINLESS STEEL INSECT SCREENS FOR ALL VENTS.
3. PROVIDE PROBE ASSEMBLY SUPPORT PER TANK MANUFACTURER.
4. INSTALL 24 MESH INSECT SCREEN ON END OF 2" DR.



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CONSTRUCTION



DESIGNED	J. RESS/J. KELLOGG
DRAWN	J. MARTIN
CHECKED	S. KADER
APPROVED	M. FISHER



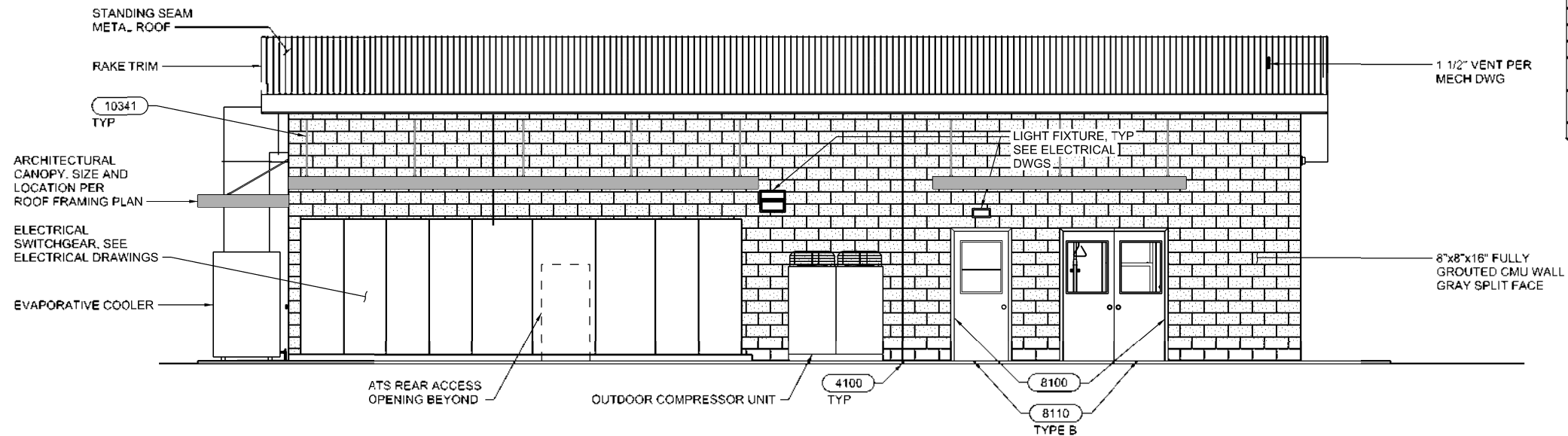
WATERWORKS
ENGINEERS
2200 Douglas Blvd, Suite 105
Roseville, CA 95661 • 916-780-2888



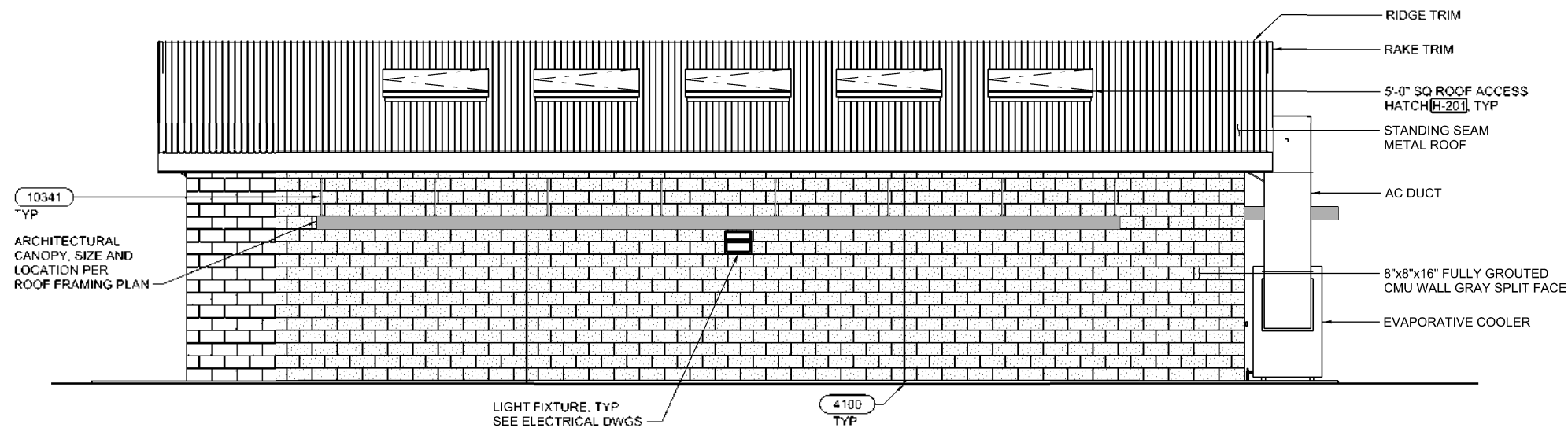
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

STRUCTURAL / MECHANICAL
HYDROPNEUMATIC TANK
PLAN AND SECTIONS

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD20-SM-001
SHEET NUMBER	80



NORTH ELEVATION
1/4" = 1'-0"
WD20-AS-003

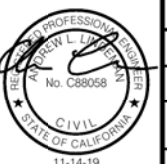


SOUTH ELEVATION
1/4" = 1'-0"
WD20-AS-003

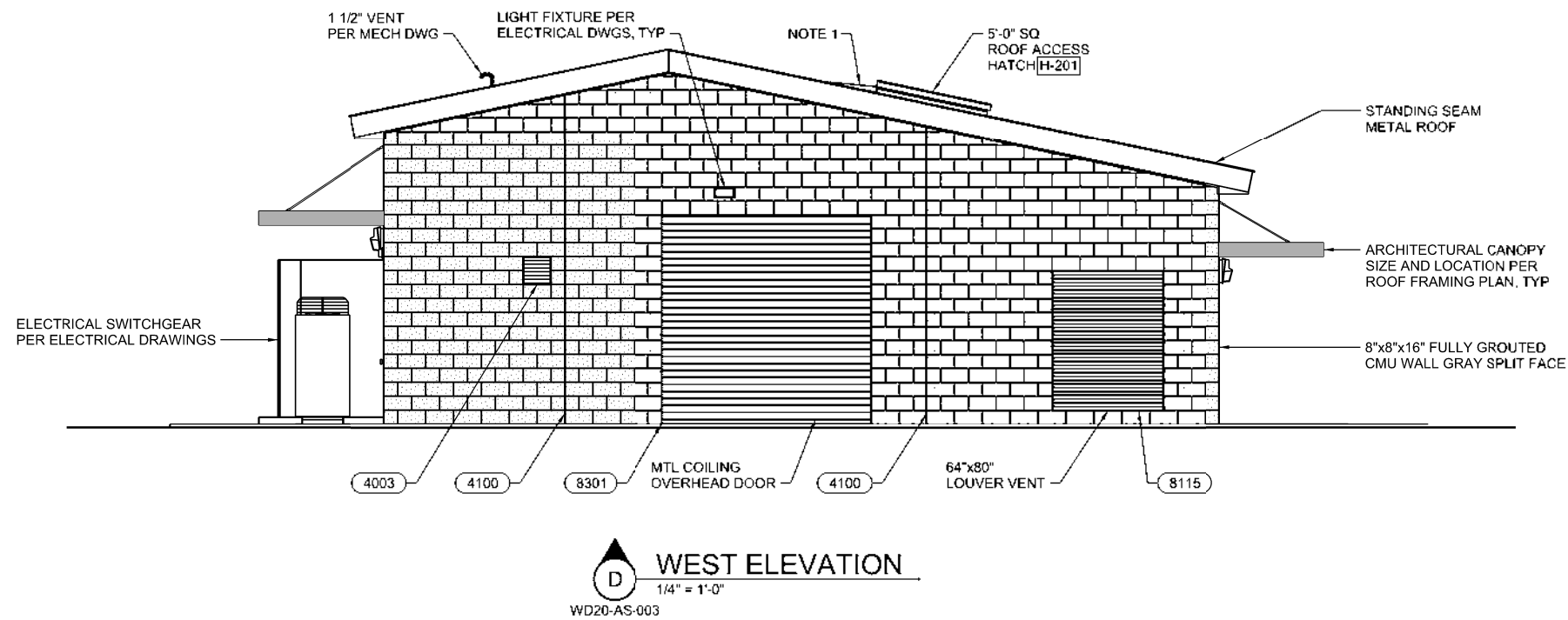
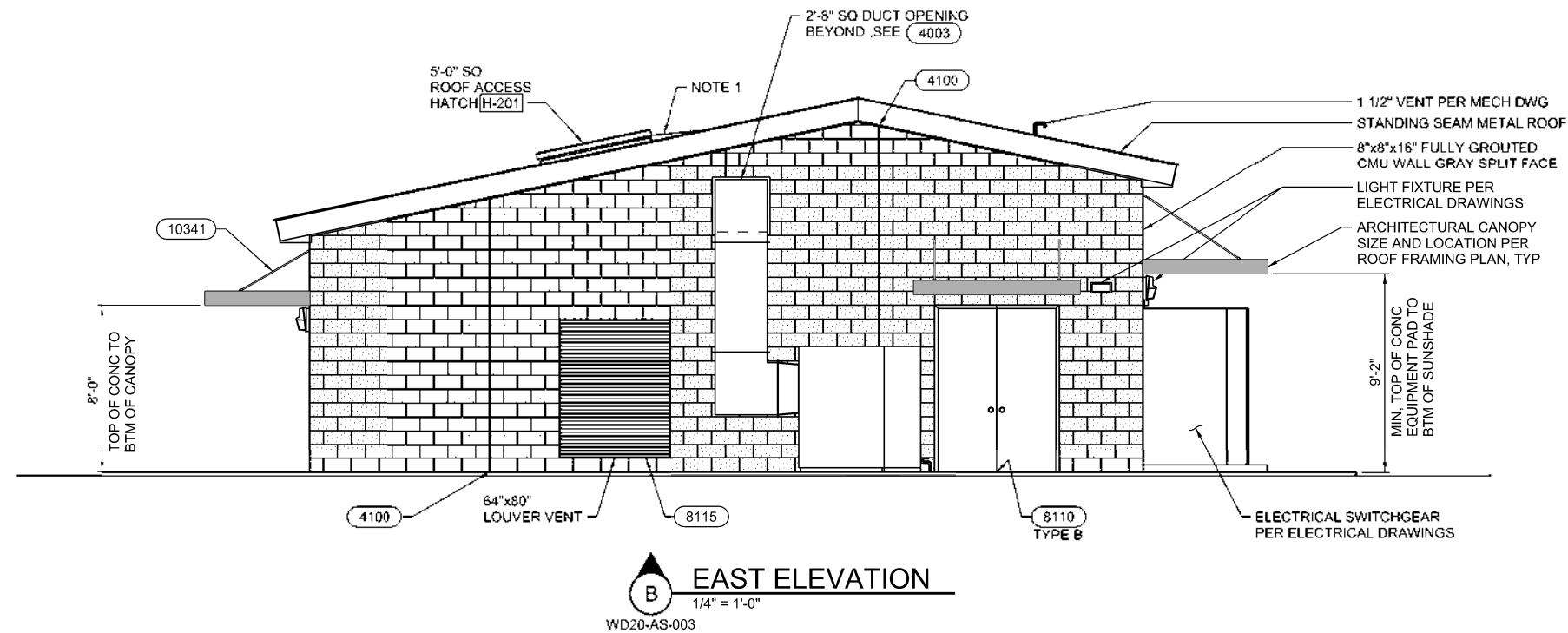
2016 CBC CODE ANALYSIS	
OCCUPANCY CLASS	F-2
TYPE OF CONSTRUCTION	III-B
FIRE SUPPRESSION	FIRE EXTINGUISHERS
ACTUAL AREA	2,537 SQ FT
OCCUPANT LOAD FACTOR	100
OCCUPANT LOAD	28
EXITS PROVIDED	3
MAX EXIT TRAVEL DISTANCE	63 FT
HAZARDOUS MATERIALS	500 GALLONS 12.5% SODIUM HYPOCHLORITE
EXTERIOR WALLS	4-HOUR RATED

4 0 4 8 FEET
SCALE 1/4"=1'-0"

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CONSTRUCTION



DESIGNED A LINDEMAN	DRAWN J MARTIN	CHECKED S KADER	APPROVED W FISHER
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 Roseville, CA 95661 • 916-780-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
ARCHITECTURAL/STRUCTURAL BOOSTER PUMP STATION ELEVATIONS			
DATE NOVEMBER 2019		PROJECT NUMBER 17-083	
DRAWING NUMBER WD20-AS-001		SHEET NUMBER 81	



- NOTES:
1. FABRICATED GALVANIZED SHEET METAL CRICKET, 11 GAUGE MINIMUM. COORDINATE CRICKET WITH HATCH CURB COUNTERFLASHING AND ROOFING FOR A COMPLETE WEATHERTIGHT INSTALLATION. SEE (7000), SIMILAR.

DESIGNED	A. LINDEMAN
DRAWN	J. MARTIN
CHECKED	S. KADER
APPROVED	M. FISHER



WATERWORKS
ENGINEERS
2200 Douglas Blvd, Suite 105
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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

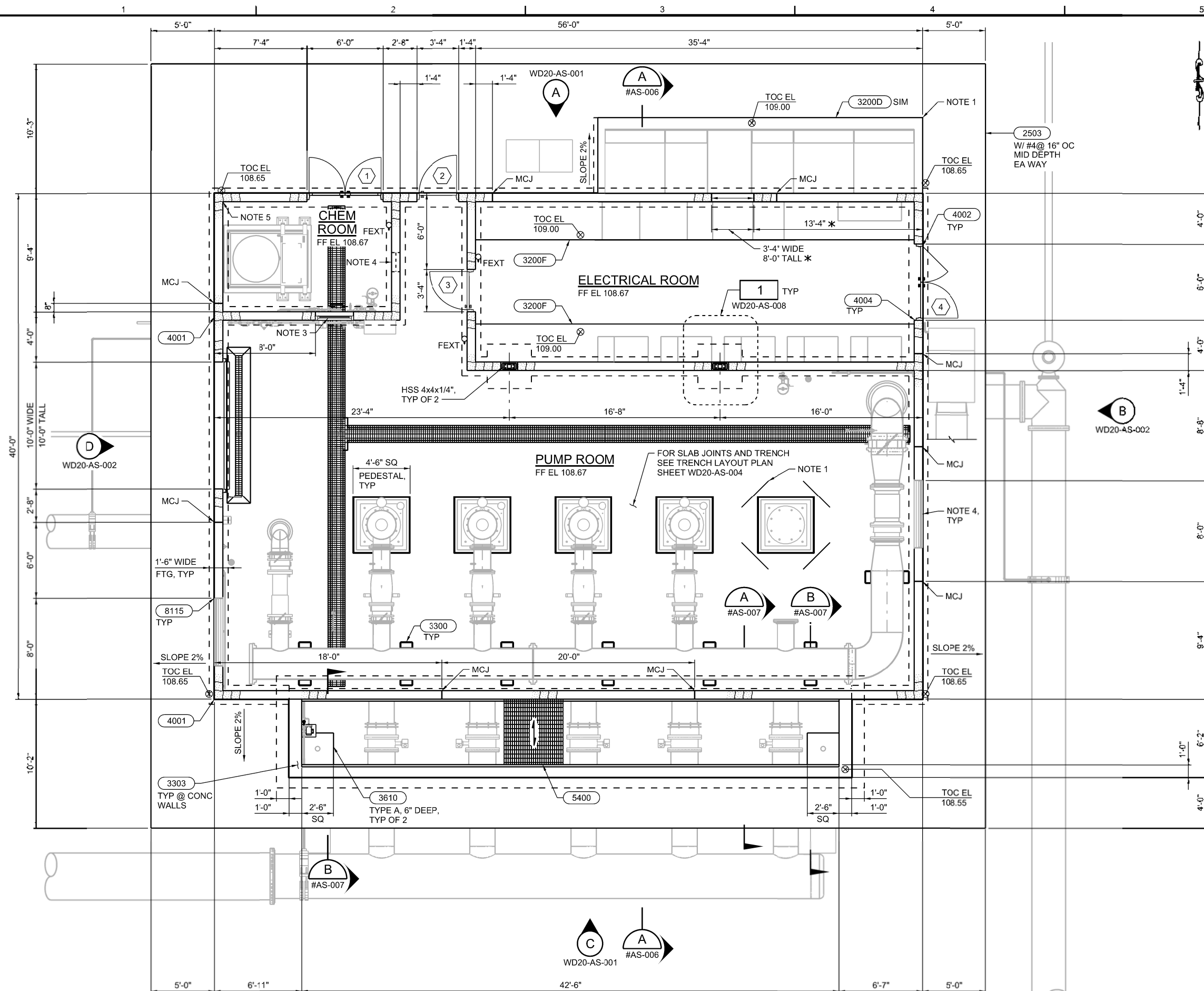
ARCHITECTURAL/STRUCTURAL
BOOSTER PUMP STATION
ELEVATIONS

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CONSTRUCTION



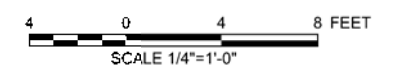
4 0 4 8 FEET
SCALE 1/4" = 1'-0"

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD20-AS-002
SHEET NUMBER	82



- NOTES:**
1. PROVIDE #4 x 4'-0" DIAGONAL BAR AT MID SLAB DEPTH @ EA CORNER, TYPICAL AT ALL REENTRANT CORNERS.
 2. FOR SECTION CUTS, REPLACE " # " WITH " WD20-# "
 3. 3'-4" WIDE BY 3'-4" WIDE FIXED VINYL FRAMED WINDOW WITH SILL HEIGHT AT 3'-4" ABOVE FINISH FLOOR.
 4. PROVIDE LOUVERS AND WALL GRILLS PER DWG WD20-H-001.
 5. AT CHEM ROOM, INSTALL POLY-TUF WATERPROOF WALL AND CEILING LINER PANEL (H&F MANUFACTURING GROUP) TO A HEIGHT OF 4'-0" MEASURED FROM FINISHED FLOOR. FOLLOW MANUFACTURE'S RECOMMENDATIONS FOR INSTALLATION, FASTENER REQUIREMENTS, ETC. CONTRACTOR TO PROVIDE MANUFACTURE'S STANDARD TRIM ACCESSORIES FOR PANEL INTERSECTIONS, CORNERS AND EDGES.
- * VERIFY ATS LOCATION & OPENING SIZE W/ ELECTRICAL SUBMITTAL PRIOR TO CONSTRUCTION. PROVIDE NON-SHRINK GROUT & CAULKING AS REQUIRED TO PROVIDE AIR-TIGHT SEAL BETWEEN EQUIPMENT HOUSING AND MASONRY WALL.

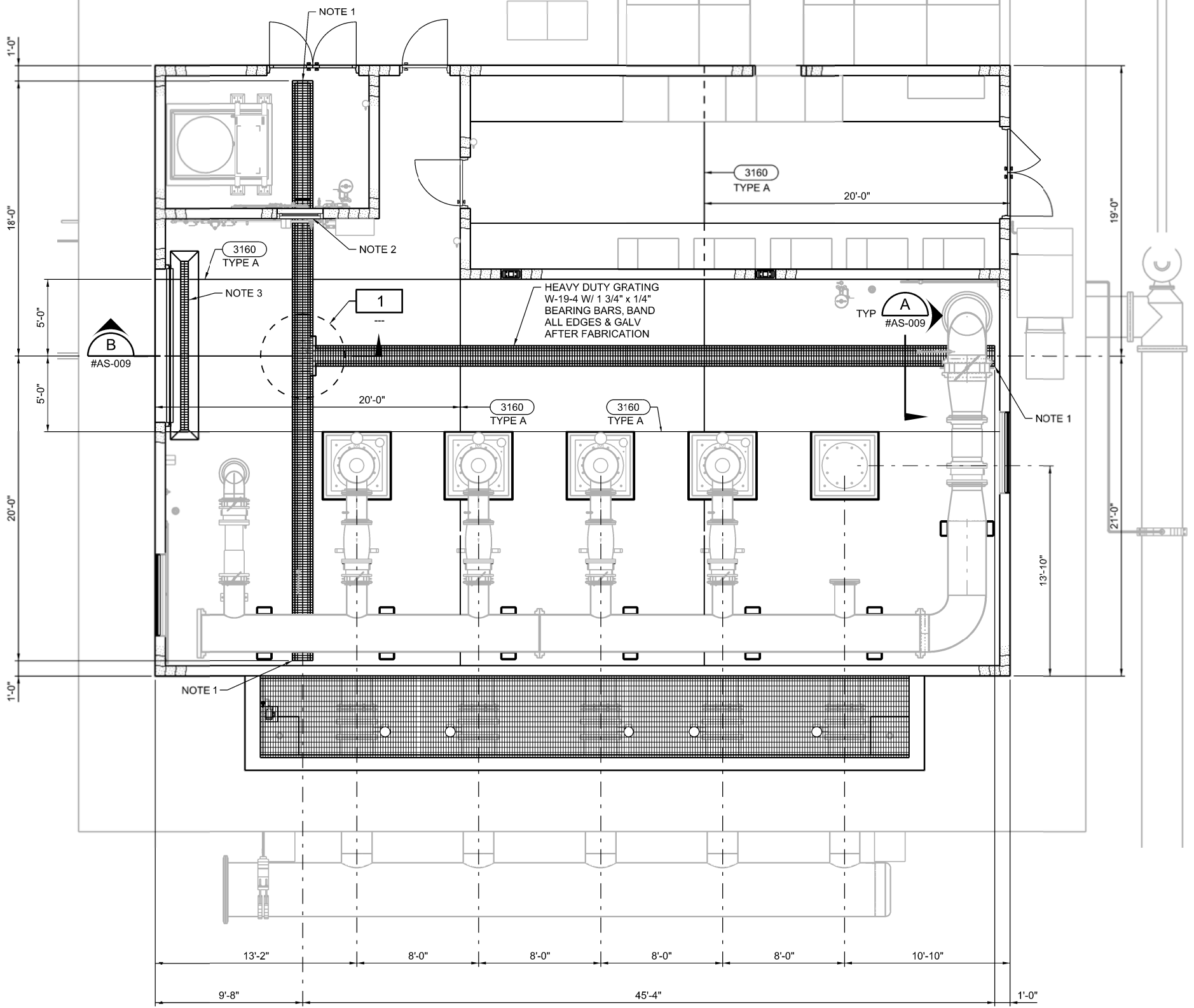
FOUNDATION PLAN
1/4" = 1'-0"



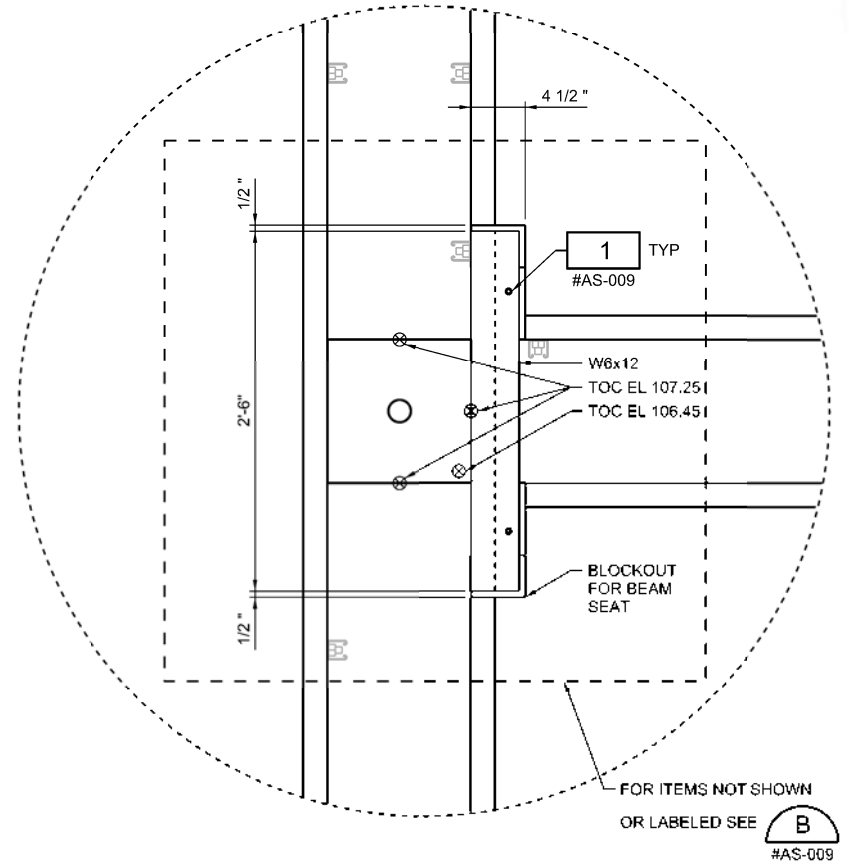
FOR PROPOSAL PURPOSES ONLY, NOT FOR CONSTRUCTION

PROFESSIONAL SEAL
NEW L. LINDEMANN
No. C88058
CIVIL
STATE OF CALIFORNIA
11-14-19

DESIGNED A LINDEMANN	DRAWN J. MARTIN	CHECKED S. KADER	APPROVED M. FISHER
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-789-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
ARCHITECTURAL/STRUCTURAL BOOSTER PUMP STATION FOUNDATION PLAN			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD20-AS-003			
SHEET NUMBER 83			

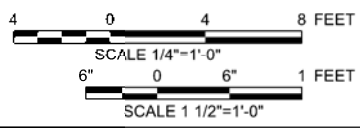


- NOTES:
1. TRENCH TCC EL 108.02.
 2. STOP AND START GRATING EA SIDE OF WALL. CONTINUE BTM WALL FTG REINF UNDER TRENCH.
 3. 6" PREFABRICATED TRENCH DRAIN. CENTER ON ROLL UP DOOR AND EXTEND 6" MIN BEYOND ENDS OF DOOR. ROUTE DRAIN TO SUMP.



1 PARTIAL PLAN
1 1/2"=1'-0"

TRENCH LAYOUT PLAN
1/4" = 1'-0"

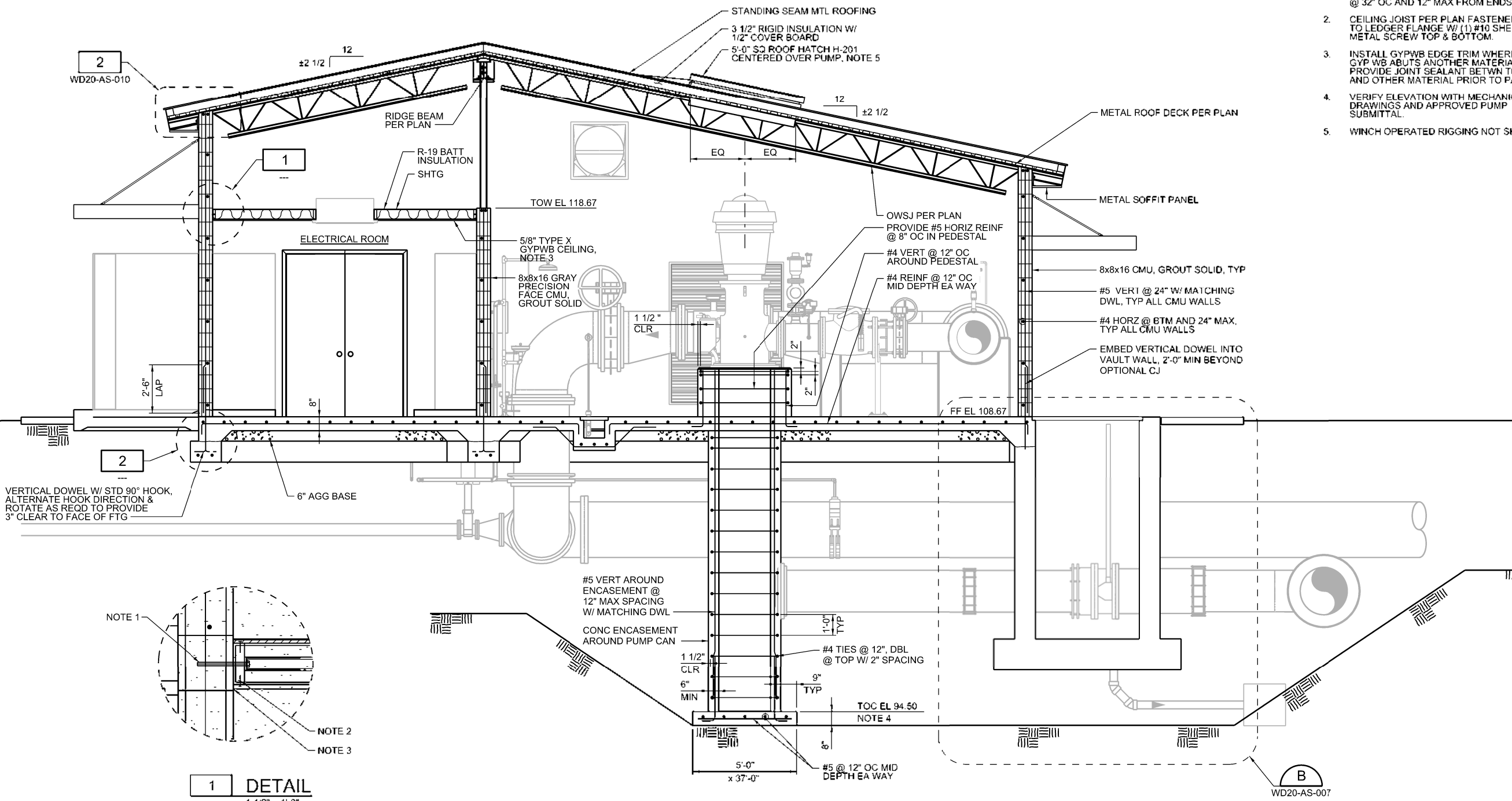


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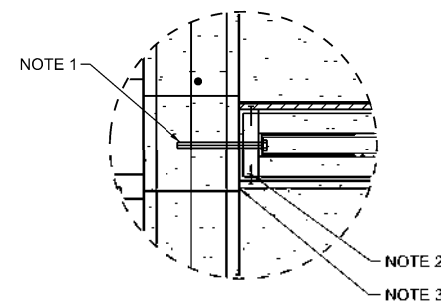


DESIGNED A LINDEMAN	DRAWN J MARTIN	CHECKED S KADER	APPROVED W FISHER
			
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-780-2688			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
ARCHITECTURAL/STRUCTURAL BOOSTER PUMP STATION TRENCH LAYOUT PLAN AND PARTIAL PLAN			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD20-AS-004			
SHEET NUMBER 84			

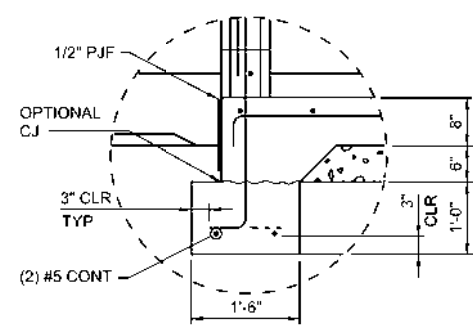
1 2 3 4 5 6



VERTICAL DOWEL W/ STD 90° HOOK, ALTERNATE HOOK DIRECTION & ROTATE AS REQD TO PROVIDE 3" CLEAR TO FACE OF FTG



1 DETAIL
1 1/2" = 1'-0"

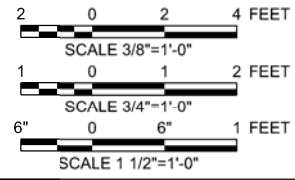


2 DETAIL
3/4" = 1'-0"

A SECTION
WD20-AS-003 3/8" = 1'-0"

NOTES:

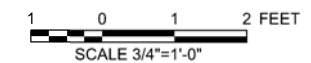
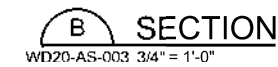
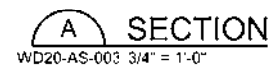
1. LEDGER PER PLAN W/ 1/2" DIA AB @ 32" OC AND 12" MAX FROM ENDS.
2. CEILING JOIST PER PLAN FASTENED TO LEDGER FLANGE W/ (1) #10 SHEET METAL SCREW TOP & BOTTOM.
3. INSTALL GYPWB EDGE TRIM WHERE GYP WB ABUTS ANOTHER MATERIAL. PROVIDE JOINT SEALANT BETWN TRIM AND OTHER MATERIAL PRIOR TO PAINTING.
4. VERIFY ELEVATION WITH MECHANICAL DRAWINGS AND APPROVED PUMP SUBMITTAL.
5. WINCH OPERATED RIGGING NOT SHOWN.



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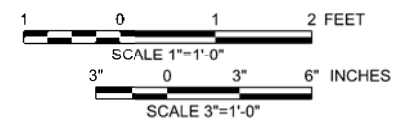
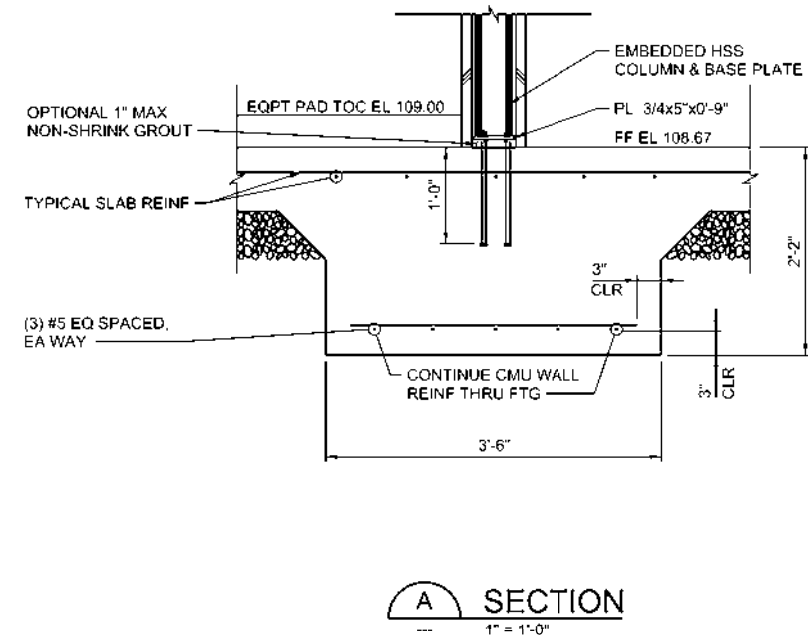
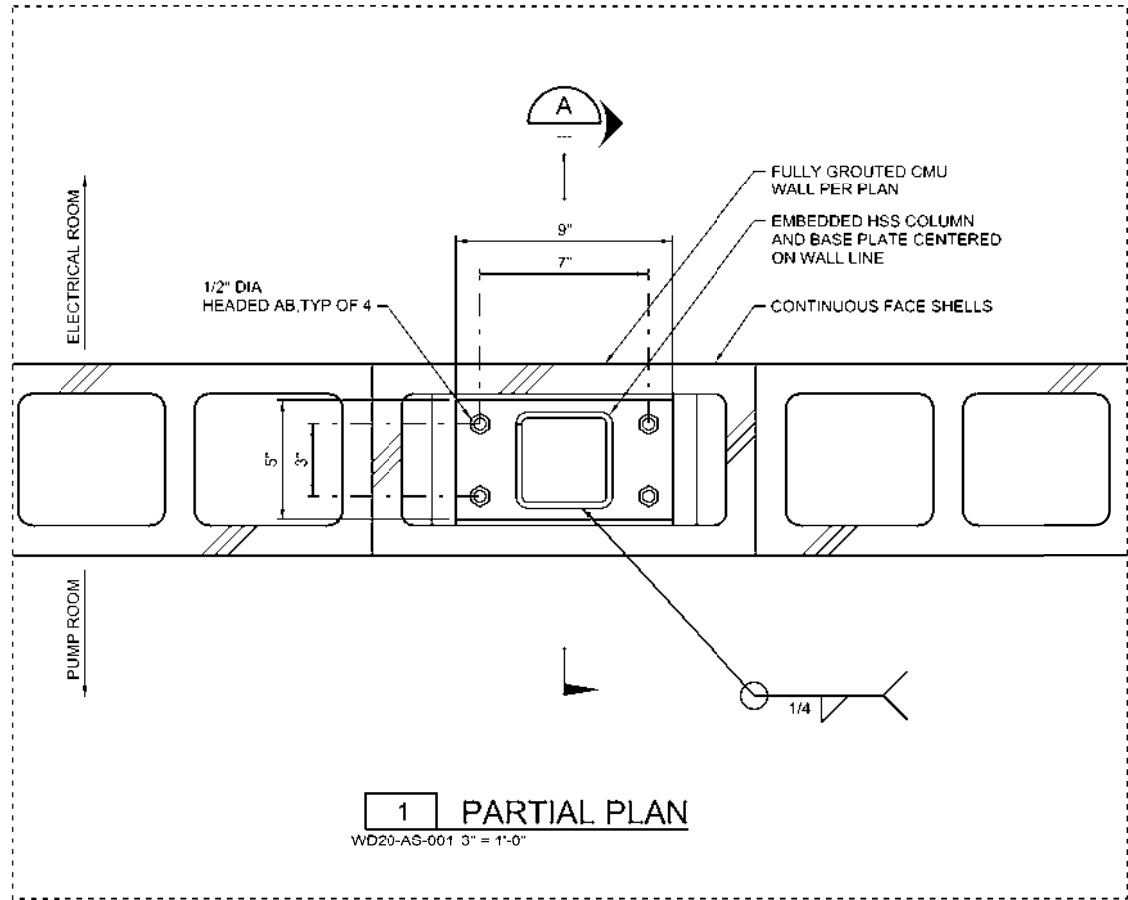
DESIGNED A LINDEMAN	DRAWN J MARTIN	CHECKED S KADER	APPROVED M FISHER
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 Roseville, CA 95661 • 916-780-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
ARCHITECTURAL/STRUCTURAL BOOSTER PUMP STATION SECTION AND DETAILS			
DATE NOVEMBER 2019		PROJECT NUMBER 17-083	
DRAWING NUMBER WD20-AS-006		SHEET NUMBER 86	



FILENAME: WD5420AS007.dgn

PLOT DATE: 11/7/2019 2:28:20 PM

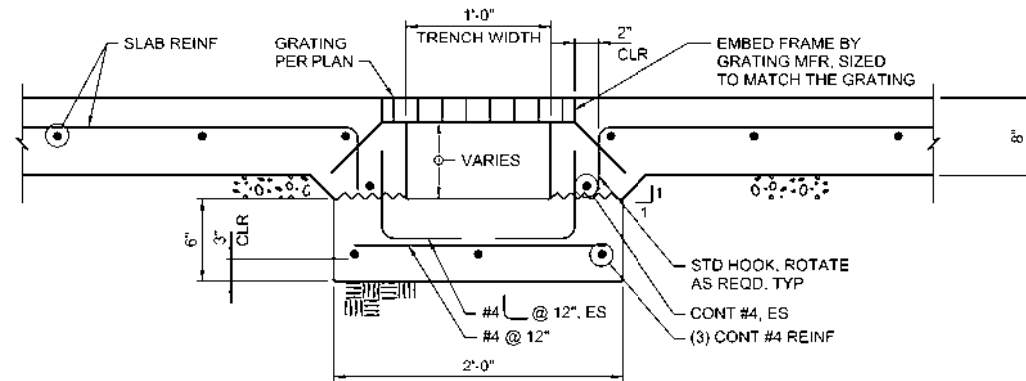
DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD20-AS-007
SHEET NUMBER	87



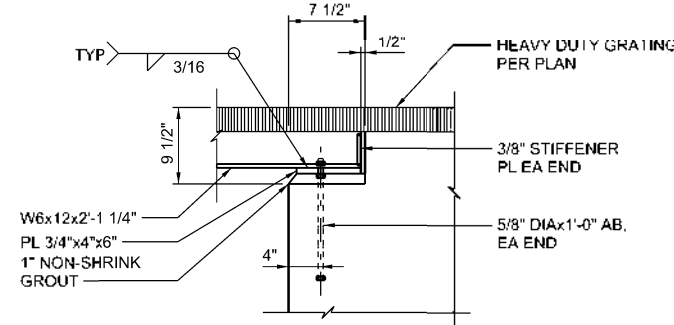
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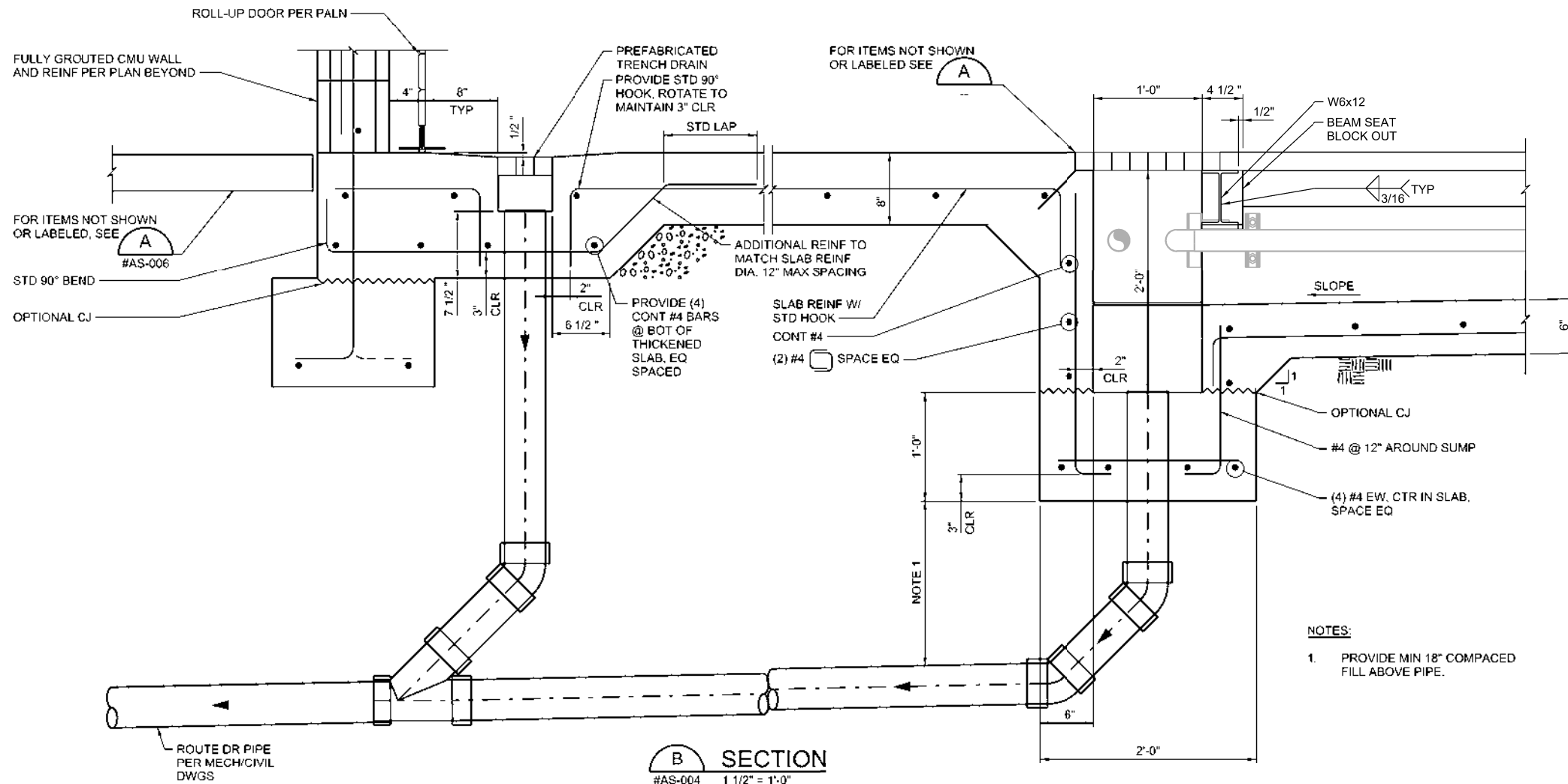
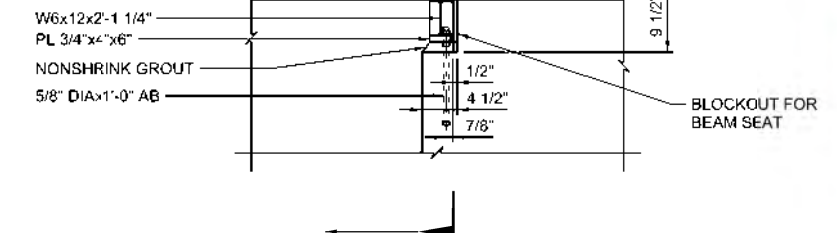
DESIGNED A LINDEMAN	DRAWN J MARTIN	CHECKED S KADER	APPROVED M FISHER
 CITY OF ROSEVILLE CALIFORNIA			
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-780-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
ARCHITECTURAL/STRUCTURAL BOOSTER PUMP STATION SECTIONS			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD20-AS-008			
SHEET NUMBER 88			



A SECTION
#AS-004 NTS

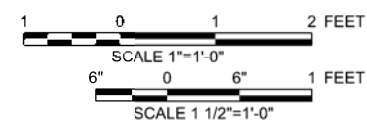


1 DETAIL
#AS-004 1" = 1'-0"



B SECTION
#AS-004 1 1/2" = 1'-0"

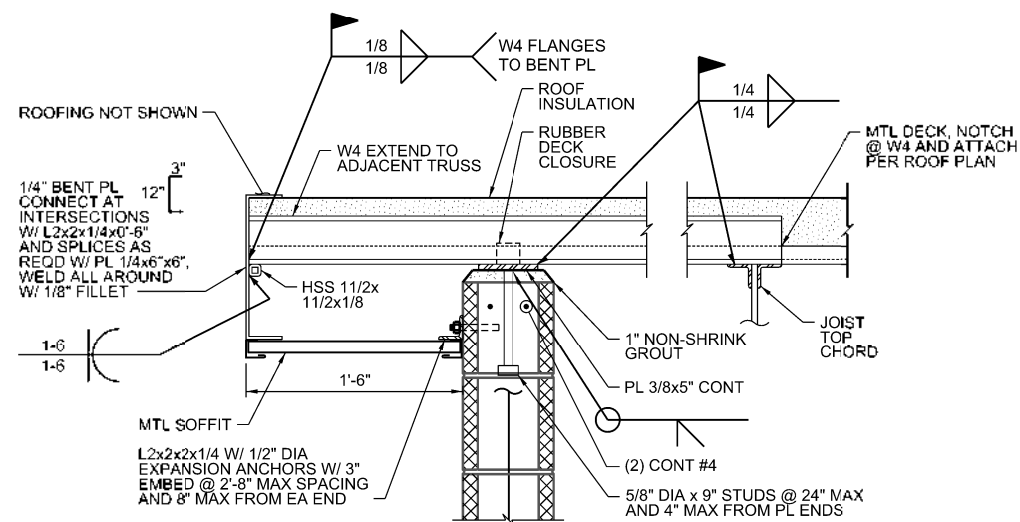
- NOTES:**
1. PROVIDE MIN 18" COMPACTED FILL ABOVE PIPE.



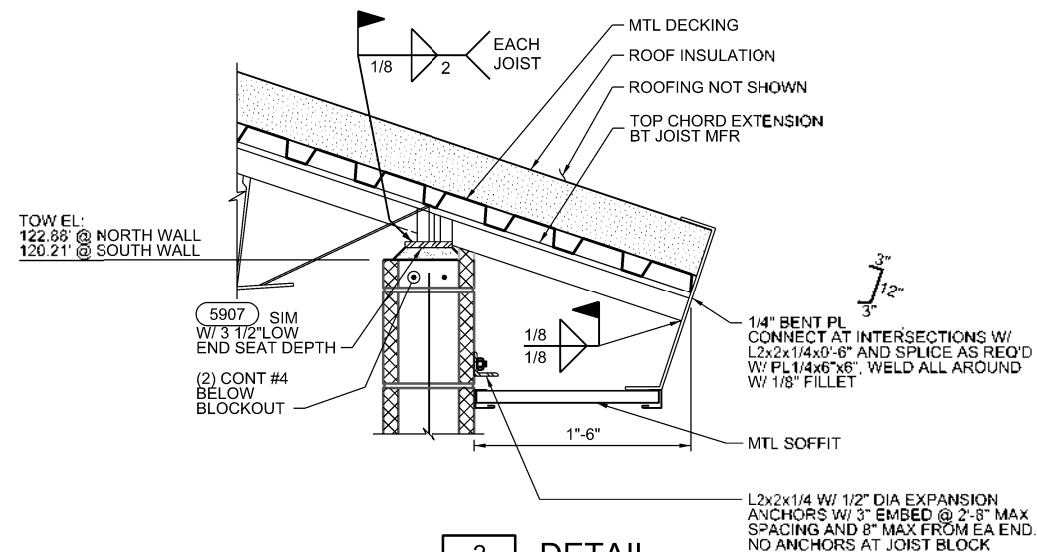
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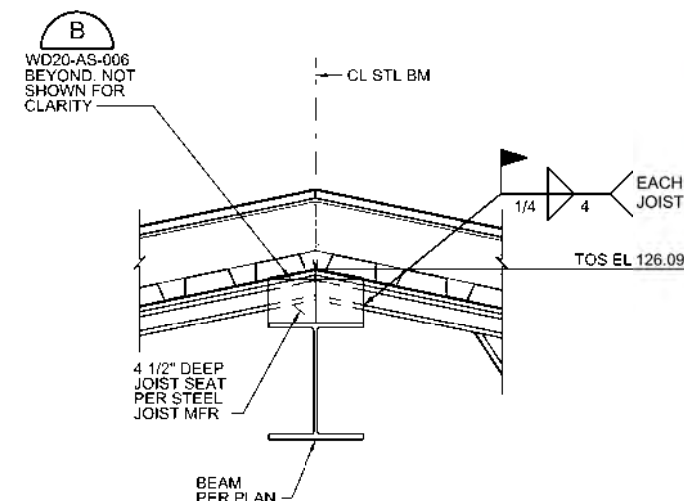
DESIGNED A LINDEMAN	DRAWN J MARTIN	CHECKED J KELLOGG	APPROVED W FISHER
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 Roseville, CA 95661 • 916-780-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
ARCHITECTURAL / STRUCTURAL BOOSTER PUMP STATION SECTIONS			
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD20-AS-009 SHEET NUMBER 89			



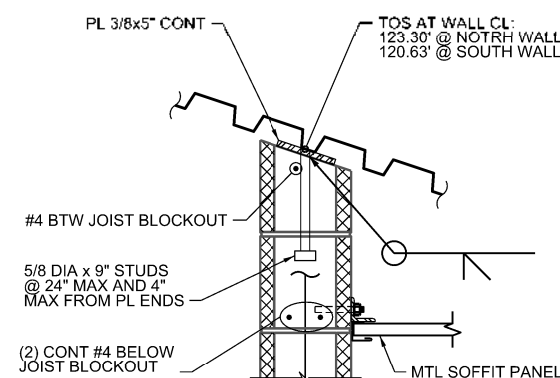
1 DETAIL
WD20-AS-005 1 1/2" = 1'-0"



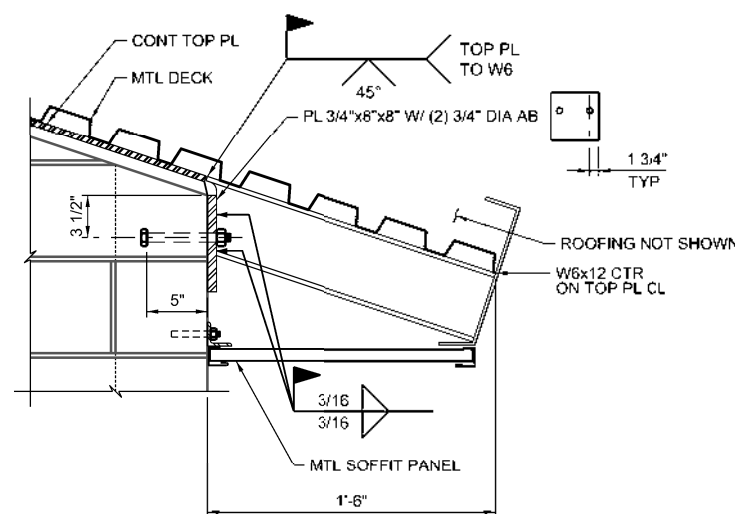
2 DETAIL
WD20-AS-005 NTS



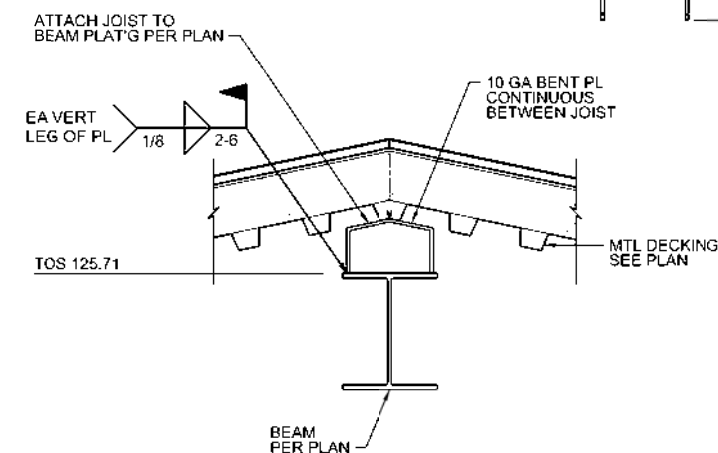
A SECTION
#AS-005 1 1/2" = 1'-0"



3 DETAIL
WD20-AS-005 1 1/2" = 1'-0"



4 DETAIL
WD20-AS-005 NTS



B SECTION
#AS-005 1 1/2" = 1'-0"

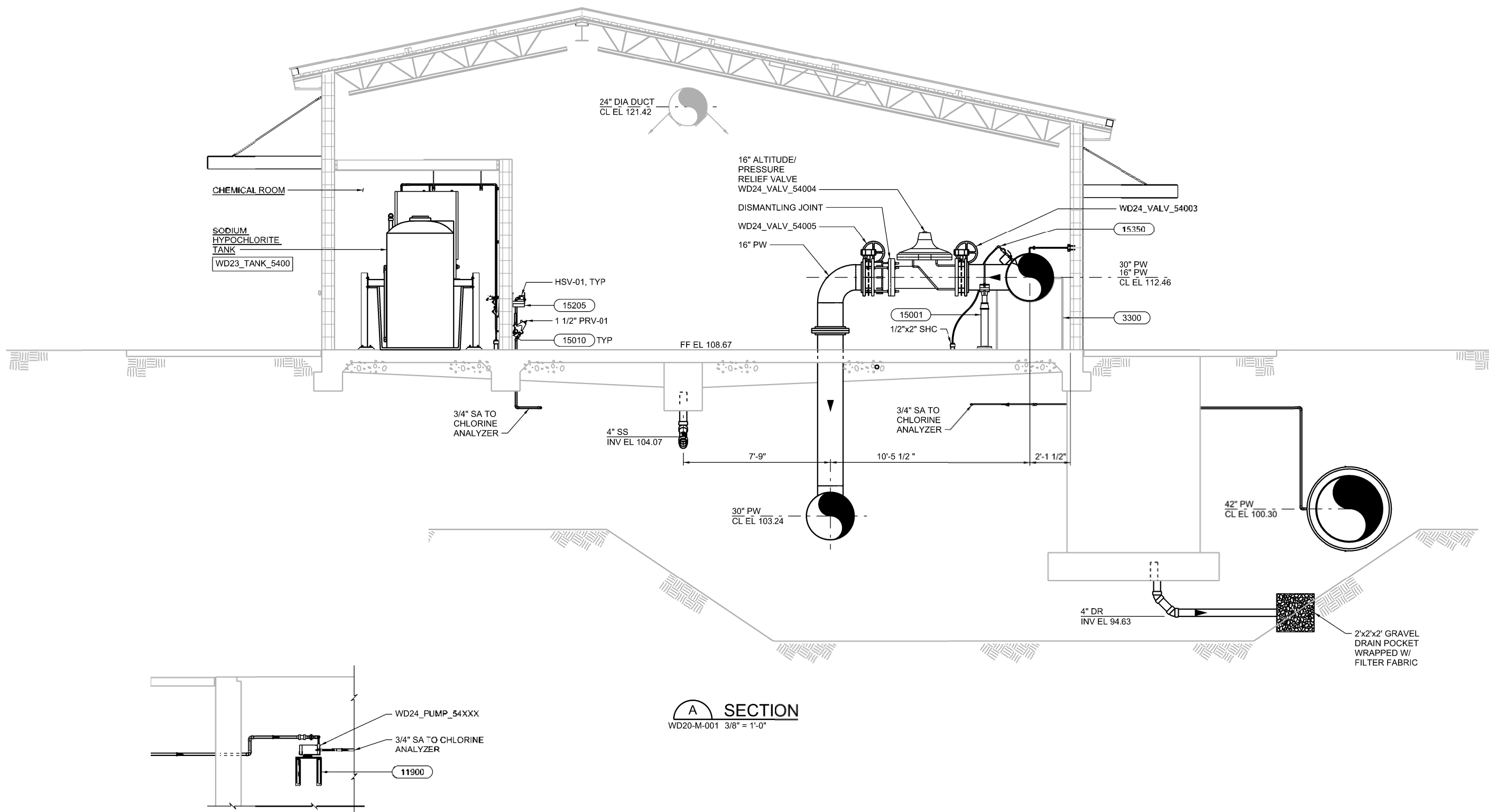
6" 0 6" 1 FEET
SCALE 1 1/2"=1'-0"

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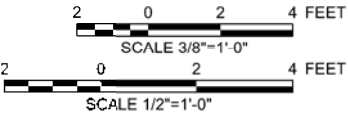
DESIGNED A LINDEMAN	DRAWN J MARTIN	CHECKED S KADER	APPROVED W FISHER
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-780-2688			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
ARCHITECTURAL/STRUCTURAL BOOSTER PUMP STATION DETAILS AND SECTIONS			
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD20-AS-010 SHEET NUMBER 90			

NOTE:
1. REFER TO P&ID'S FOR COMPLETE EQUIPMENT & TAG NUMBERING.



A SECTION
WD20-M-001 3/8" = 1'-0"

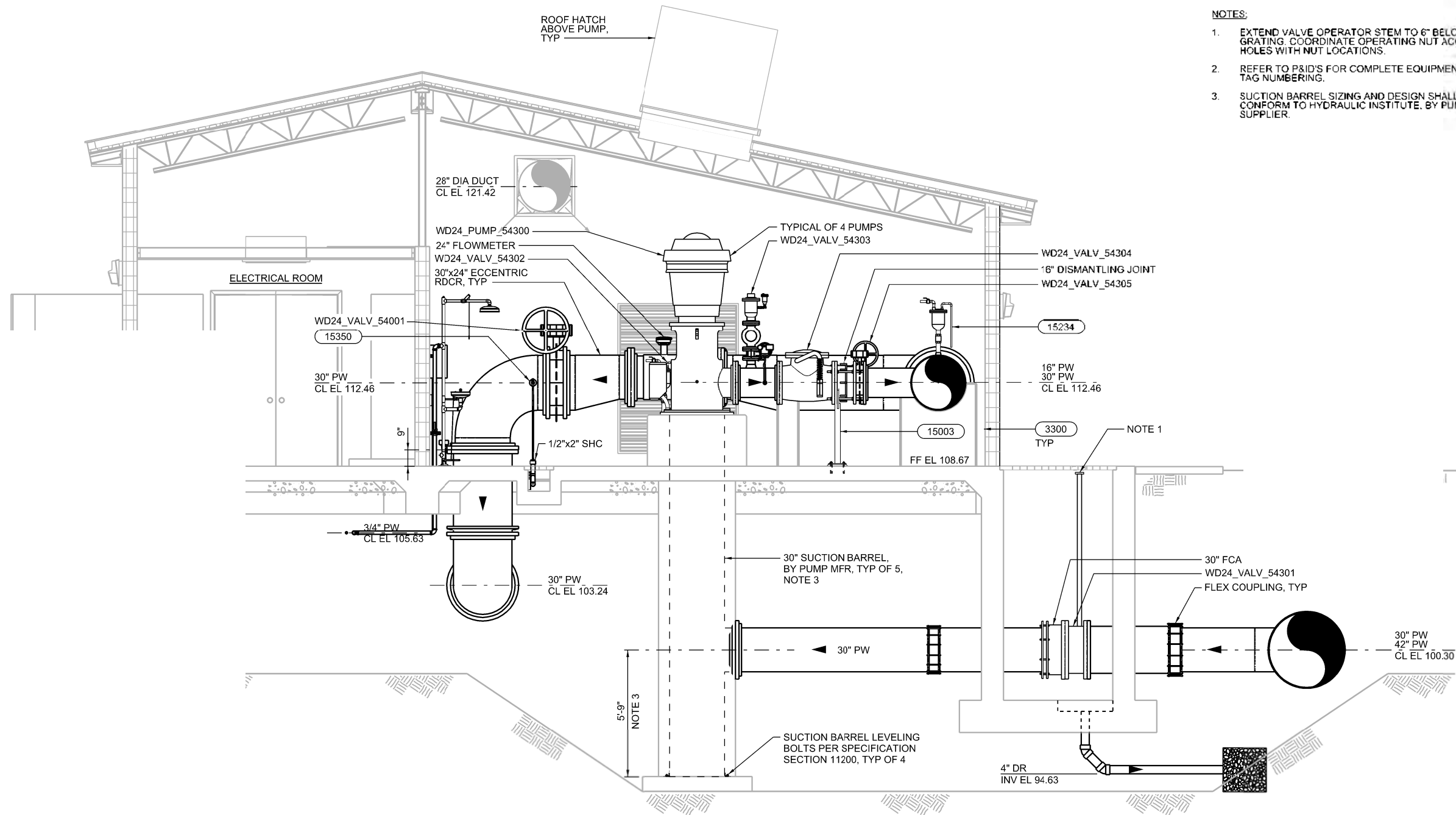
B SECTION
WD20-M-001 1/2" = 1'-0"



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DESIGNED J. RIOS	DRAWN J. MARTIN	CHECKED S. KADER	APPROVED M. FISHER
 CITY OF ROSEVILLE CALIFORNIA			
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 Roseville, CA 95661 • 916-789-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
MECHANICAL BOOSTER PUMP STATION SECTIONS			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD20-M-002			
SHEET NUMBER 92			



- NOTES:**
1. EXTEND VALVE OPERATOR STEM TO 6" BELOW GRATING. COORDINATE OPERATING NUT ACCESS HOLES WITH NUT LOCATIONS.
 2. REFER TO P&ID'S FOR COMPLETE EQUIPMENT & TAG NUMBERING.
 3. SUCTION BARREL SIZING AND DESIGN SHALL CONFORM TO HYDRAULIC INSTITUTE, BY PUMP SUPPLIER.

A SECTION
WD20-M-001 3/8" = 1'-0"

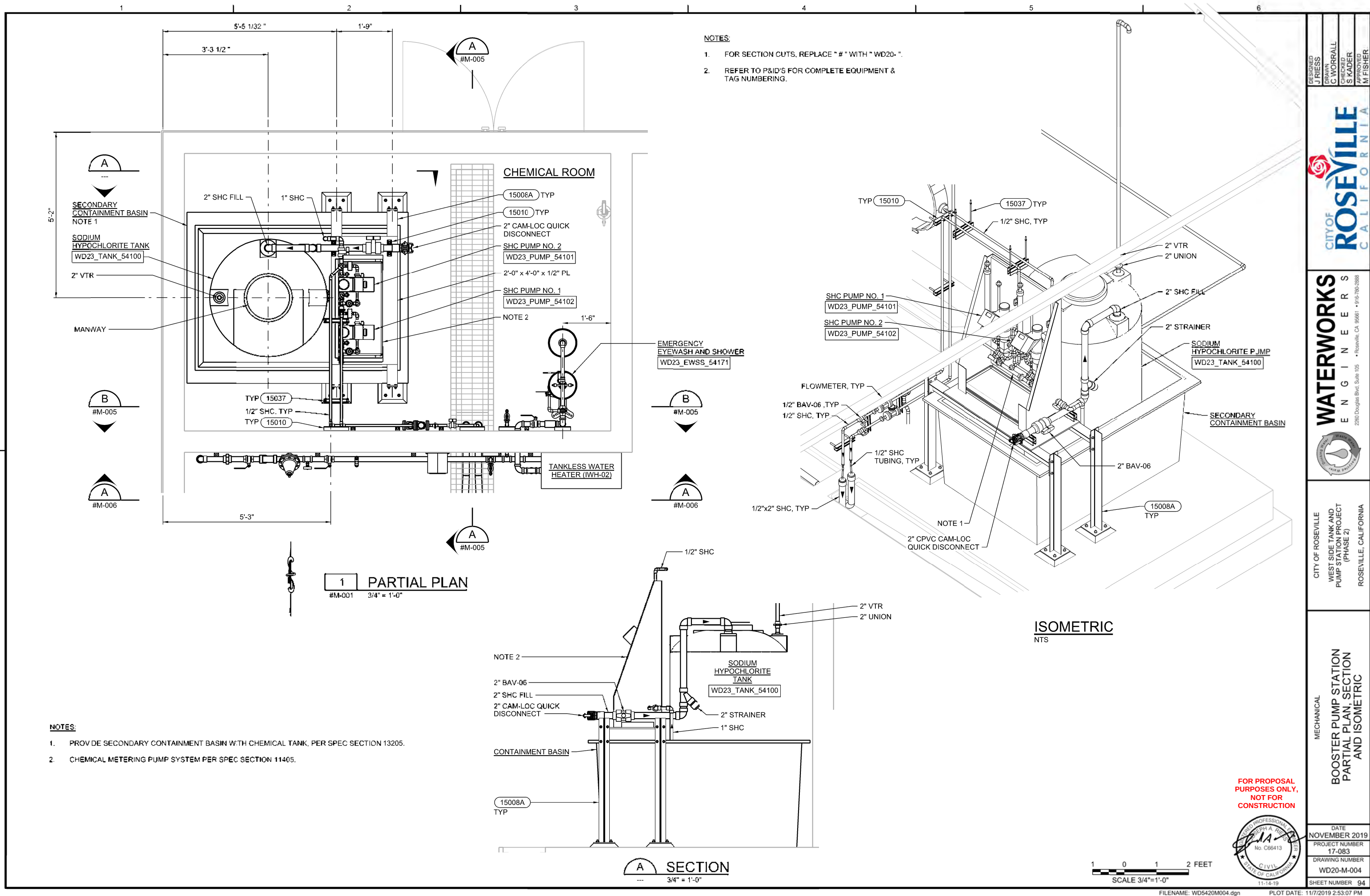
2 0 2 4 FEET
SCALE 3/8"=1'-0"

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FILENAME: WD5420M003.dgn PLOT DATE: 11/7/2019 2:51:51 PM

DESIGNED J. RESS	DRAWN J. MARTIN	CHECKED S. KADER	APPROVED M. FISHER
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-780-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
MECHANICAL BOOSTER PUMP STATION SECTION			
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD20-M-003 SHEET NUMBER 93			



1 2 3 4 5 6

- NOTES:
1. FOR SECTION CUTS, REPLACE " # " WITH " WD20-#".
 2. REFER TO P&ID'S FOR COMPLETE EQUIPMENT & TAG NUMBERING.

DESIGNED	J. RESS
DRAWN	C. WORRALL
CHECKED	S. KADER
APPROVED	M. FISHER



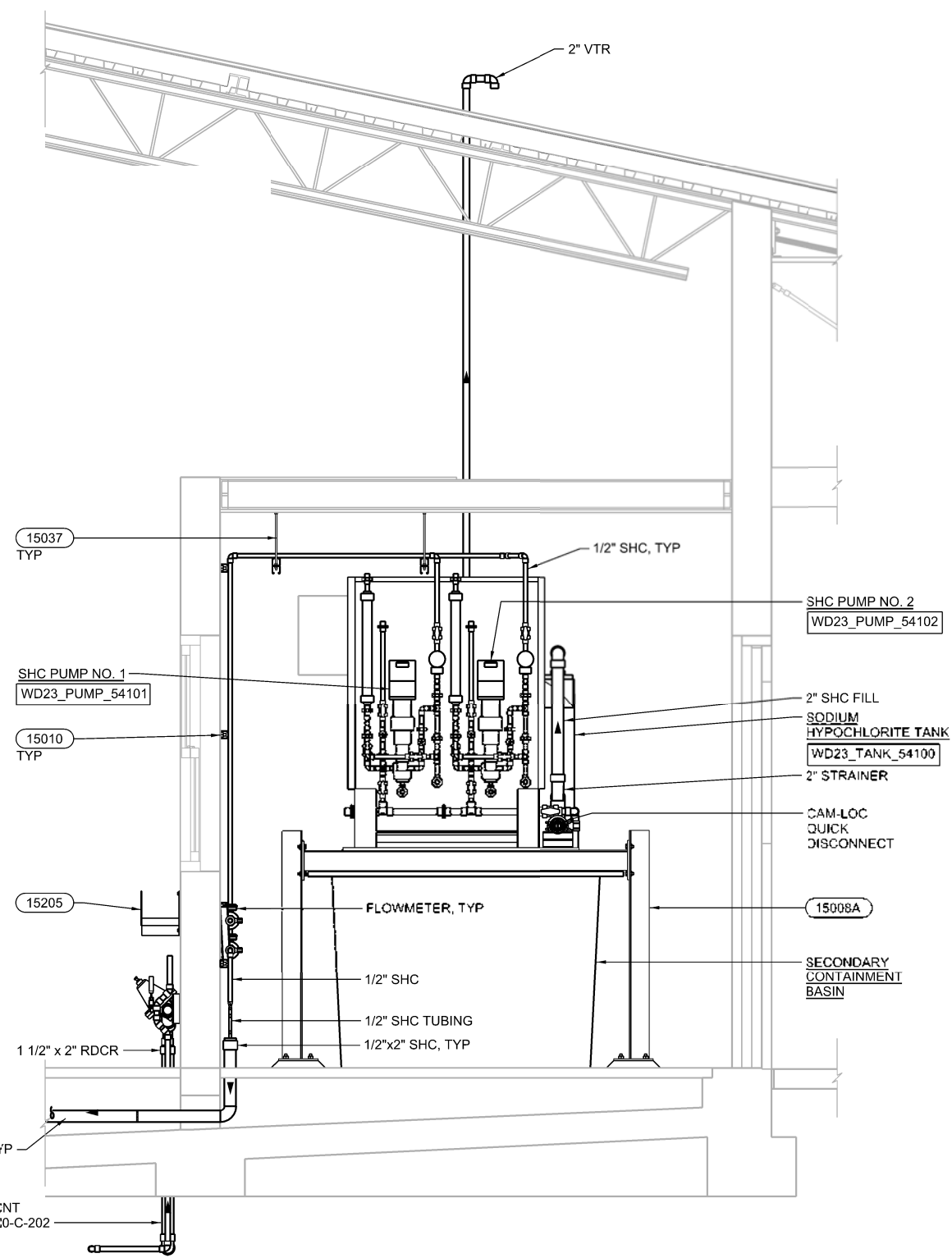
WATERWORKS
ENGINEERS
2200 Douglas Blvd, Suite 105
Roseville, CA 95661 • 916-780-2888



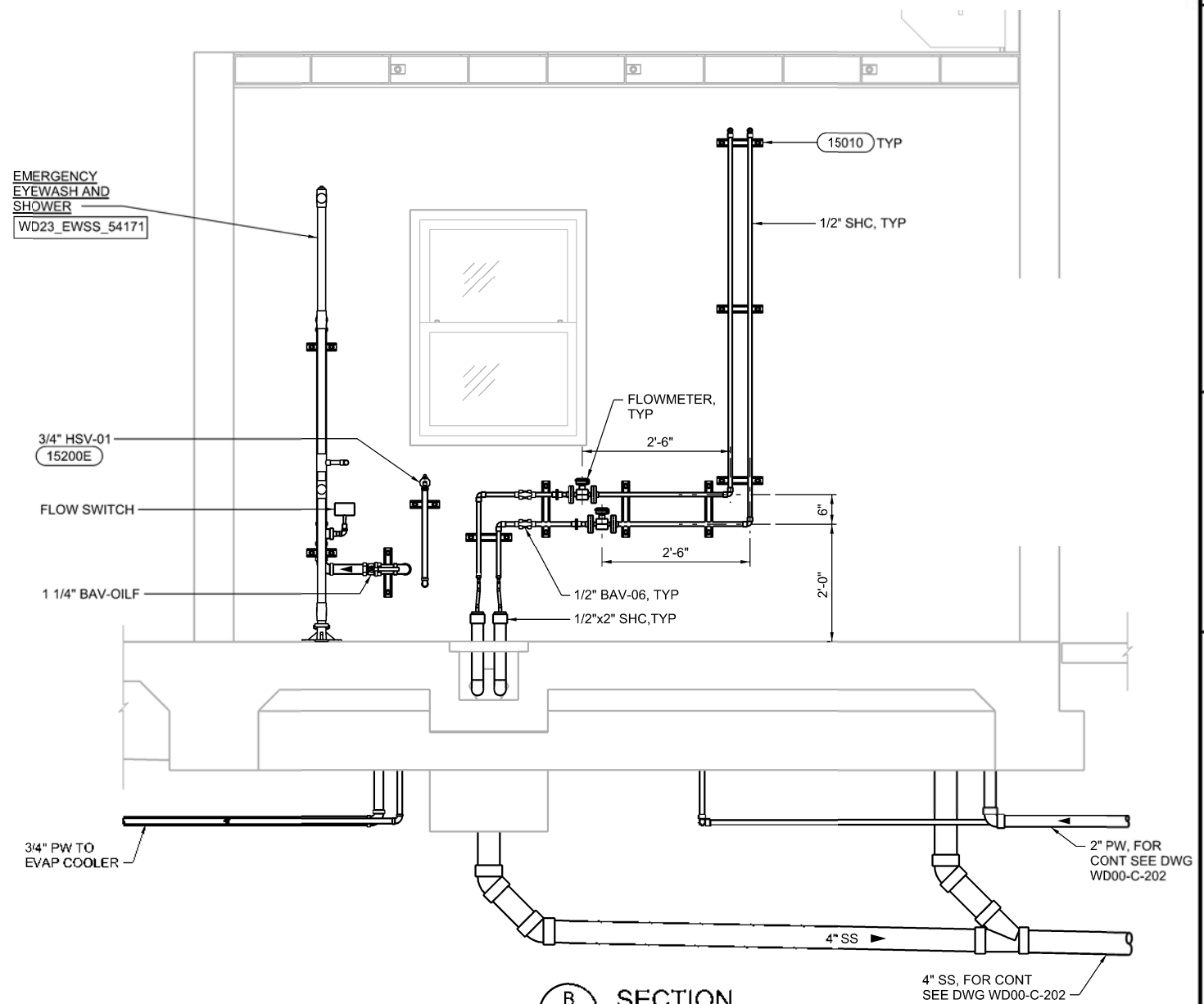
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

MECHANICAL
BOOSTER PUMP STATION
SECTIONS

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD20-M-005
SHEET NUMBER	95



A SECTION
#M-001 3/4" = 1'-0"

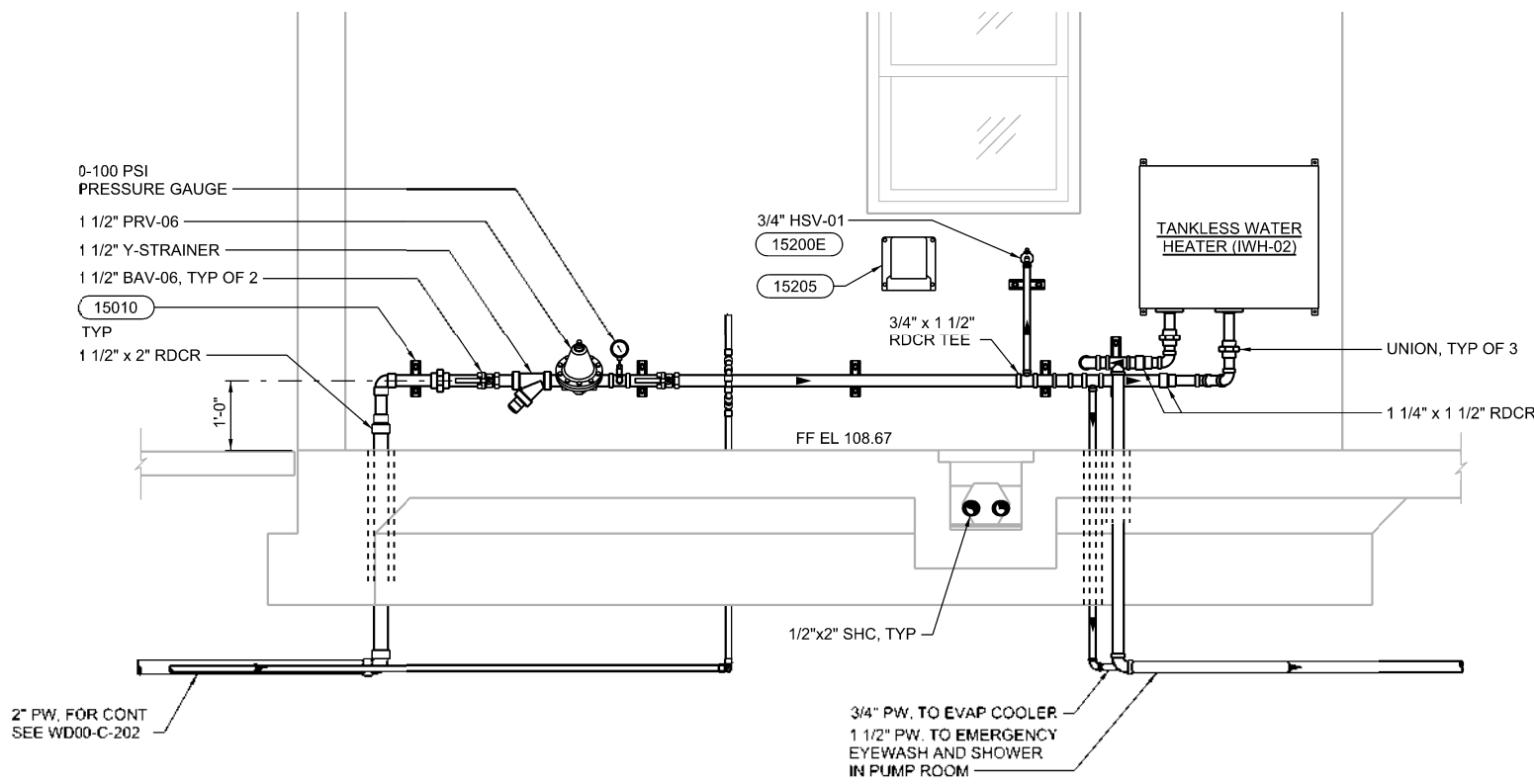


B SECTION
#M-001 3/4" = 1'-0"

1 0 1 2 FEET
SCALE 3/4" = 1'-0"

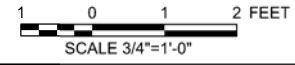
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A SECTION
#M-004 3/4" = 1'-0"

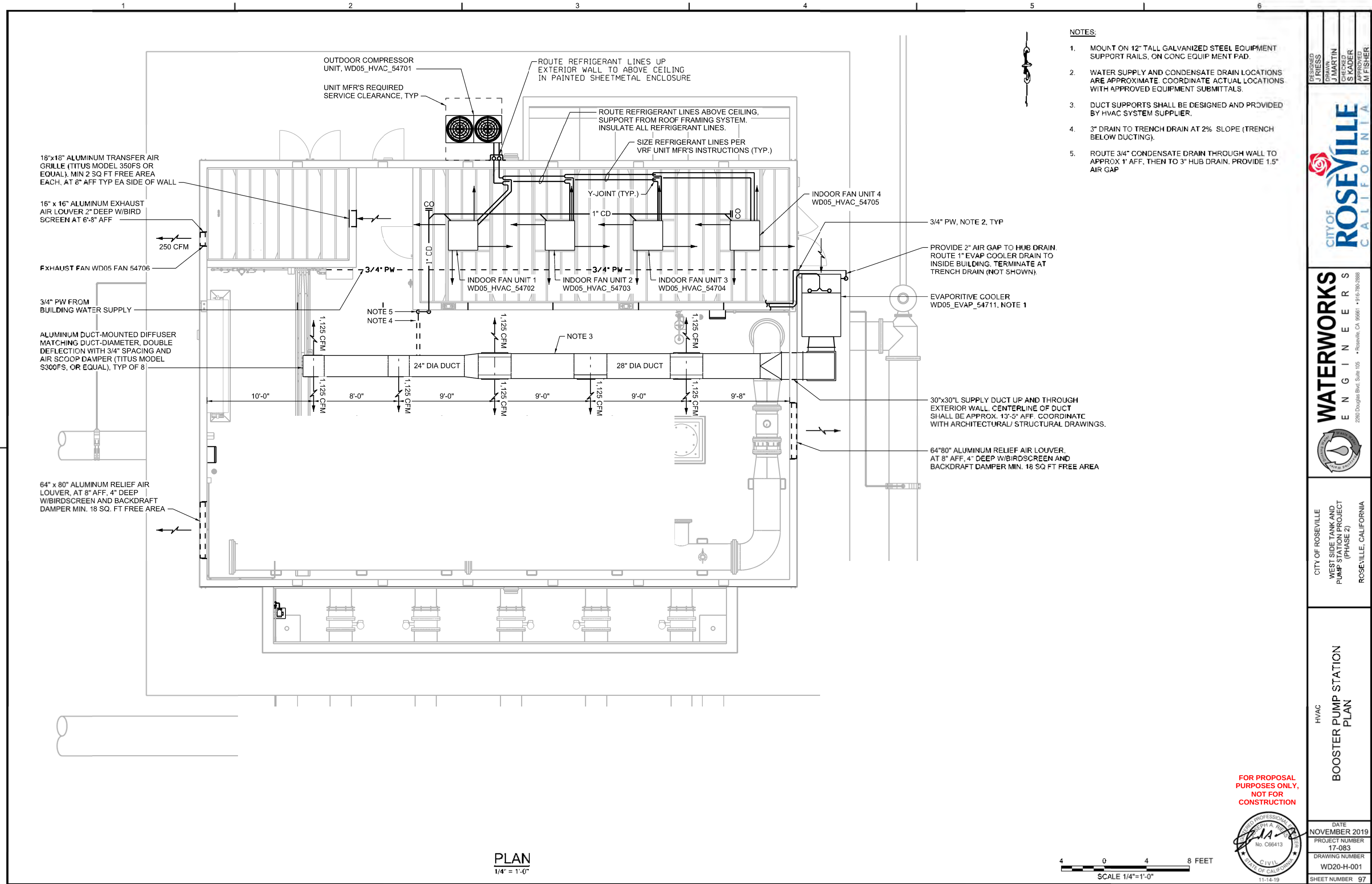
- NOTE:**
- 1. FOR SECTION CUTS, REPLACE " # " WITH " WD20- ".
 - 2. REFER TO P&ID'S FOR COMPLETE EQUIPMENT & TAG NUMBERING.



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DESIGNED J. FISS	DRAWN J. MARTIN	CHECKED S. KADER	APPROVED M. FISHER
WATERWORKS ENGINEERS 2200 Douglas Blvd, Suite 105 • Roseville, CA 95661 • 916-780-2888			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
MECHANICAL BOOSTER PUMP STATION SECTION			
DATE NOVEMBER 2019		PROJECT NUMBER 17-083	
DRAWING NUMBER WD20-M-006		SHEET NUMBER 96	



- NOTES:
1. MOUNT ON 12" TALL GALVANIZED STEEL EQUIPMENT SUPPORT RAILS, ON CONC EQUIP MENT PAD.
 2. WATER SUPPLY AND CONDENSATE DRAIN LOCATIONS ARE APPROXIMATE. COORDINATE ACTUAL LOCATIONS WITH APPROVED EQUIPMENT SUBMITTALS.
 3. DUCT SUPPORTS SHALL BE DESIGNED AND PROVIDED BY HVAC SYSTEM SUPPLIER.
 4. 3" DRAIN TO TRENCH DRAIN AT 2% SLOPE (TRENCH BELOW DUCTING).
 5. ROUTE 3/4" CONDENSATE DRAIN THROUGH WALL TO APPROX 1' AFF, THEN TO 3" HUB DRAIN. PROVIDE 1.5" AIR GAP

DESIGNED	J. RISS
DRAWN	J. MARTIN
CHECKED	S. KADER
APPROVED	M. FISHER



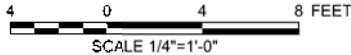
WATERWORKS
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Roseville, CA 95661 • 916-785-2888

CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

HVAC
**BOOSTER PUMP STATION
PLAN**

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD20-H-001
SHEET NUMBER	97

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CONSTRUCTION



EVAPORATIVE COOLER SCHEDULE																		
LABEL	MAKE	MODEL	COOLING			FAN			DUCT OUTLET CONFIG.	ELECTRICAL								OPER. WEIGHT LBS.
			MEDIA	LAT*	EFFICIENCY	CFM	ESP	HP		FAN MOTOR				PUMP				
										VOLT	PH	HZ	AMPS	VOLT	PH	HZ	AMPS	
WD05_EVAP_5471 1	PHOENIX MFG	IS500 w/ WS100	12" STD. RIGID	74.1	90%	9,000	0.5"	3	SIDE	480	3	60	8	240	1	60	1.1	565
* AT 102/71 OAT DB/WB																		
OPTIONS: 1. UL RATED 2. PUMP KIT PK2LA																		

VRF OUTDOOR UNIT SCHEDULE																
LABEL	MAKE	MODEL	SYSTEM CONNECTED CAPACITY	COOLING				HEATING			ELECTRICAL					OPER. WEIGHT LBS.
				NOMINAL TONS	TOTAL* BTU/HR	IEER	EER	NOMINAL** BTU/HR	COP	EER	VOLT	PH	HZ	MCA	MOCP	
WD05_HVAC_54701	CARRIER-TOSHIBA	MMY-MAP1686HT6P-UL	100%	14	153,458	22.4	11	136,809	3.7	11.1	460	3	60	31	40	838
* AT 105°F OAT AND 80°F/67°F EAT DB/WB																
** AT 27°F OAT DB																
OPTIONS: 1. R-410a REFRIGERANT 2. REFRIGERANT Y-POINTS AS REQUIRED																

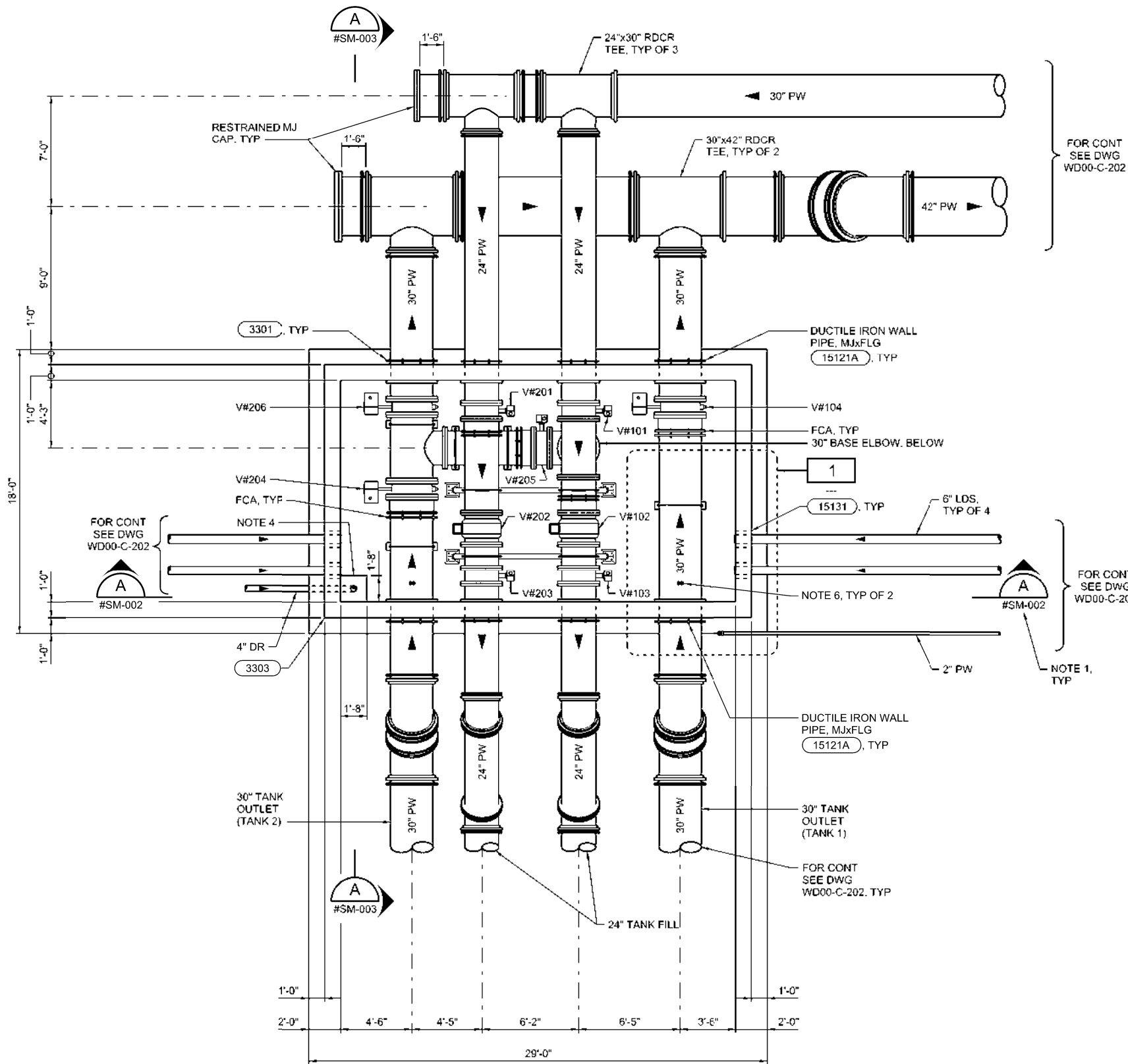
VRF FAN COIL UNIT SCHEDULE																	
LABEL	MAKE	MODEL	TYPE	MATCHING OUTDOOR UNIT	COOLING		HEATING*	SUPPLY FAN		MIN. OA	ELECTRICAL						OPER.
					NOMINAL TONS	SENSIBLE* BTU/HR	BTU/HR	CFM	ESP	CFM	VOLT	PH	HZ	FLA	MCA	MOCP	WEIGHT LBS.
WD05_HVAC_54702	CARRIER-TOSHIBA	MMU-AP0422H2UL	4-WAY CASSETTE	WD05_HVAC_54702	3.5	26,851	34,202	1,250	0.0"	0	208	1	60	1.0	1.3	15	69
WD05_HVAC_54703	CARRIER-TOSHIBA	MMU-AP0422H2UL	4-WAY CASSETTE		3.5	26,851	34,202	1,250	0.0"	0	208	1	60	1.0	1.3	15	69
WD05_HVAC_54704	CARRIER-TOSHIBA	MMU-AP0422H2UL	4-WAY CASSETTE		3.5	26,851	34,202	1,250	0.0"	0	208	1	60	1.0	1.3	15	69
WD05_HVAC_54705	CARRIER-TOSHIBA	MMU-AP0422H2UL	4-WAY CASSETTE		3.5	26,851	34,202	1,250	0.0"	0	208	1	60	1.0	1.3	15	69
* AT 105°F OAT AND 80°F/67°F EAT DB/WB																	
** AT 27°F OAT DB																	
OPTIONS: 1. 24V INTERFACE 2. GRILLE																	

EXHAUST FAN SCHEDULE									
LABEL	MAKE	MODEL	CFM	ESP	ELECTRIC				OPER. WEIGHT
					VOLT	PH	HZ	HP	
WD05_FANx_54705	GREENHECK	SE1-10-428-P	250	0.2	115	1	60	1/20	59
* AT 102 OAT DB,									
OPTIONS:									
1. BACKDRAFT DAMPER					4. SPEED CONTROLLER				
2. UL LISTED					5. DISCONNECT SWITCH				
3. WALL HOUSING W/ OSHA GUARD					6. MOTOR ACCESS FROM INSIDE				

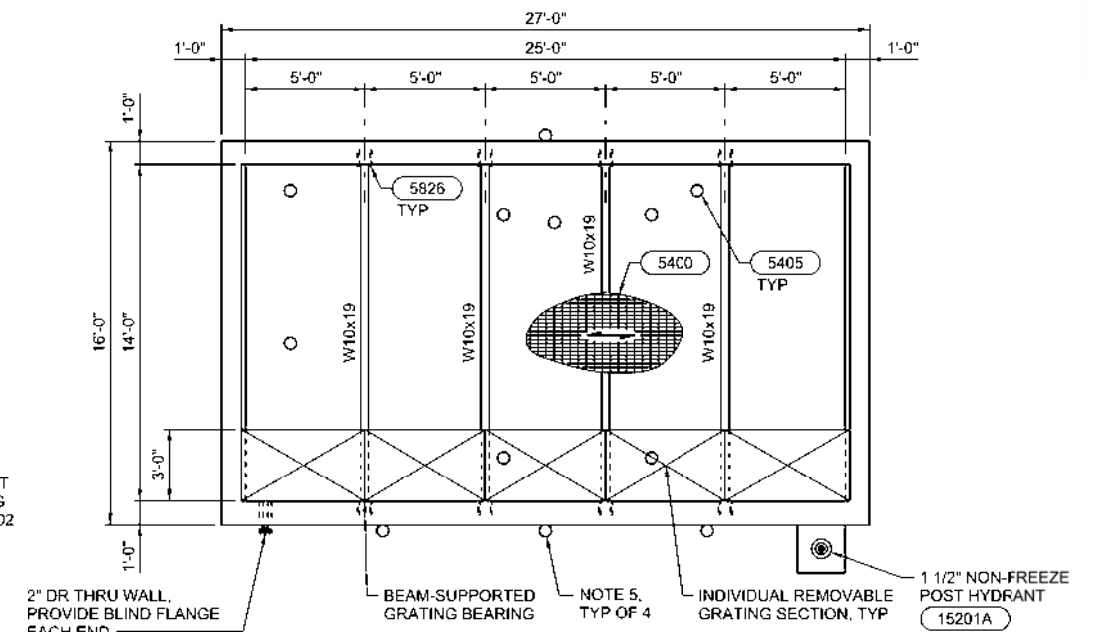
NOTES:
1. VRF = VARIABLE REFRIGERANT FLOW

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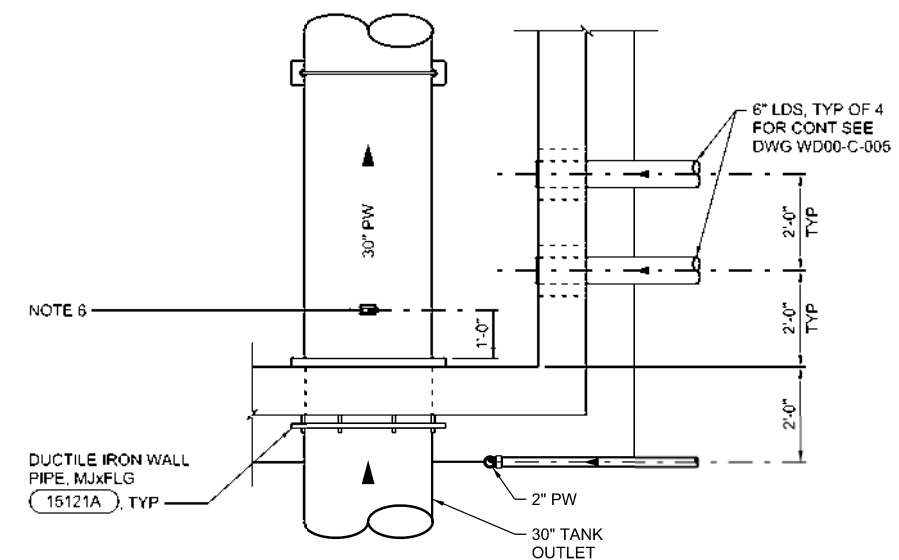




LOWER PLAN
1/4" = 1'-0"

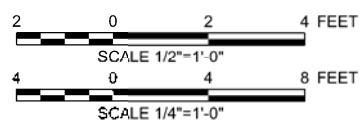


UPPER PLAN
1/4" = 1'-0"



1 DETAIL
1/2" = 1'-0"

- NOTES:**
1. REPLACE " # " IN DRAWING REFERENCES WITH " WD40-".
 2. REPLACE "V#" WITH "WD44_VALV_54".
 3. GRATING AND SUPPORT BEAMS ARE SIZED FOR A 125 PSF LIVE LOAD.
 4. 3" DEEP-IN SLAB SUMP PER 3610 TYPE A.
 5. WALL-MOUNT BASE FOR PORTABLE ENSIGN 1000 ELECTRIC DAVIT. CONFIRM LOCATION WITH OWNER.
 6. 1" PIPE TAP PER 15300 FOR PRESSURE TRANSDUCER, SEE ELECTRICAL DRAWINGS.



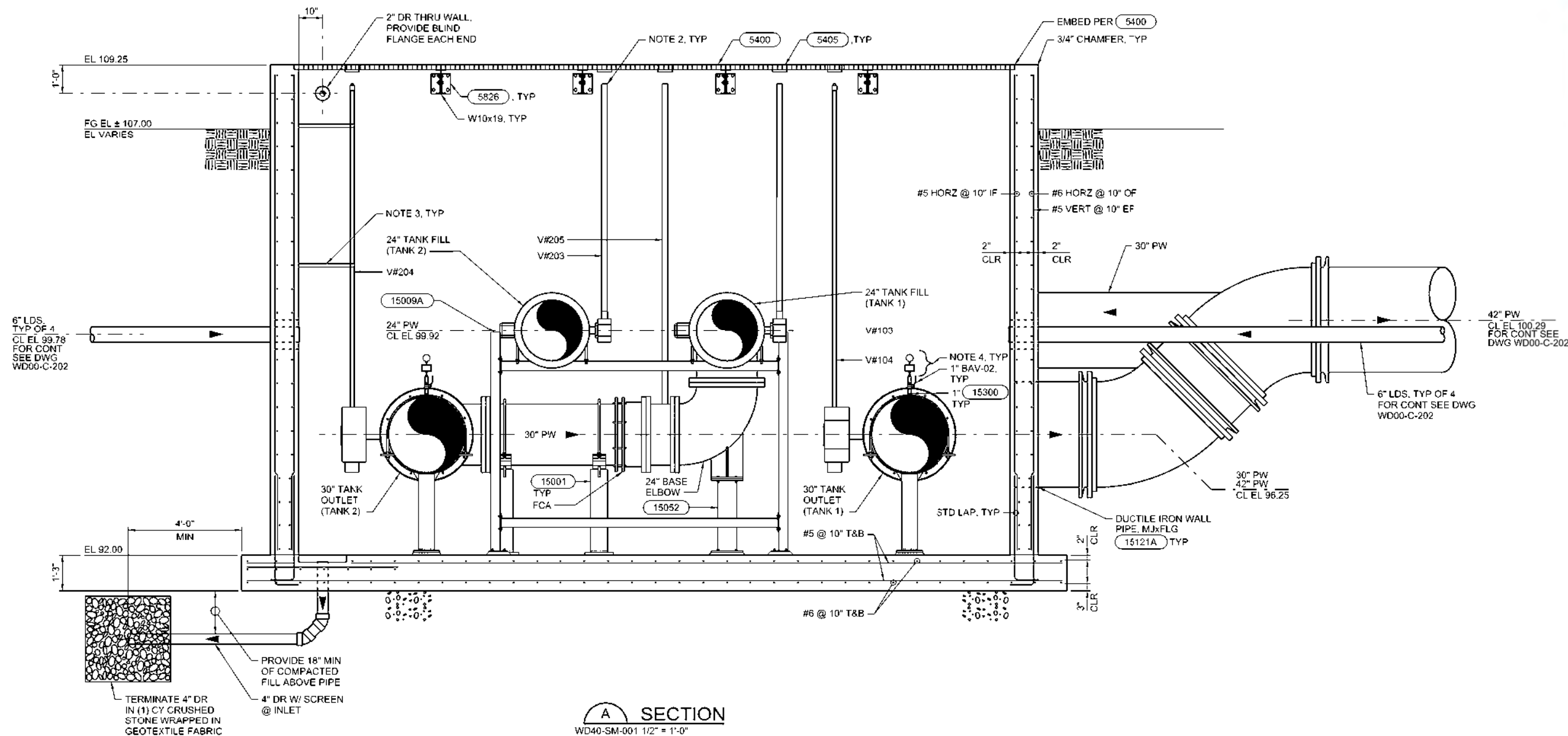
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CONSTRUCTION



DESIGNED J. RIESSEN KILLOGG DRAWN J. MARTIN CHECKED S. KADER APPROVED M. FISHER	 CITY OF ROSEVILLE CALIFORNIA
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	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA
	STRUCTURAL / MECHANICAL TANK VALVE VAULT PLANS AND DETAIL
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD40-SM-001 SHEET NUMBER 99	

1 2 3 4 5 6

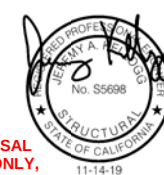
- NOTES:
1. REPLACE "V#" WITH "WD44_VALV_54".
 2. EXTEND VALVE OPERATOR STEM TO 6" BELOW GRATING. COORDINATE OPERATING NUT ACCESS HOLES WITH NUT LOCATIONS.
 3. PROVIDE STEM SUPPORTS AS NECESSARY AND AS RECOMMENDED BY VALVE MANUFACTURER. STEM SUPPORT DESIGN SHALL BE BY CONTRACTOR.
 4. PRESSURE TRANSDUCER AND BLOCK-AND-BLEED VALVE PER ELECTRICAL DRAWINGS.



A SECTION
WD40-SM-001 1/2" = 1'-0"

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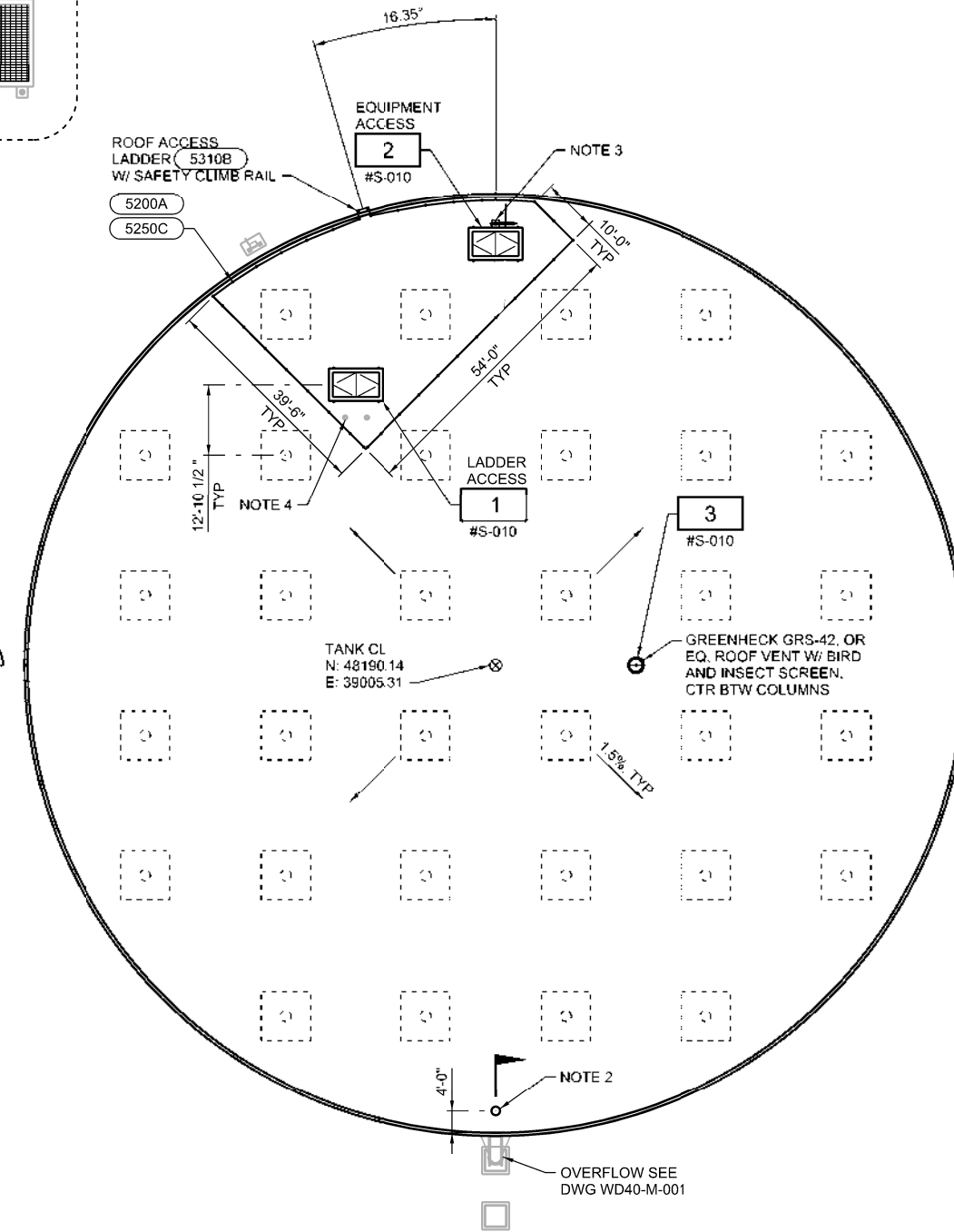
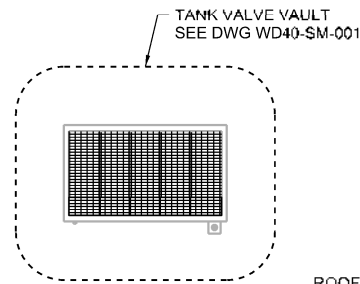
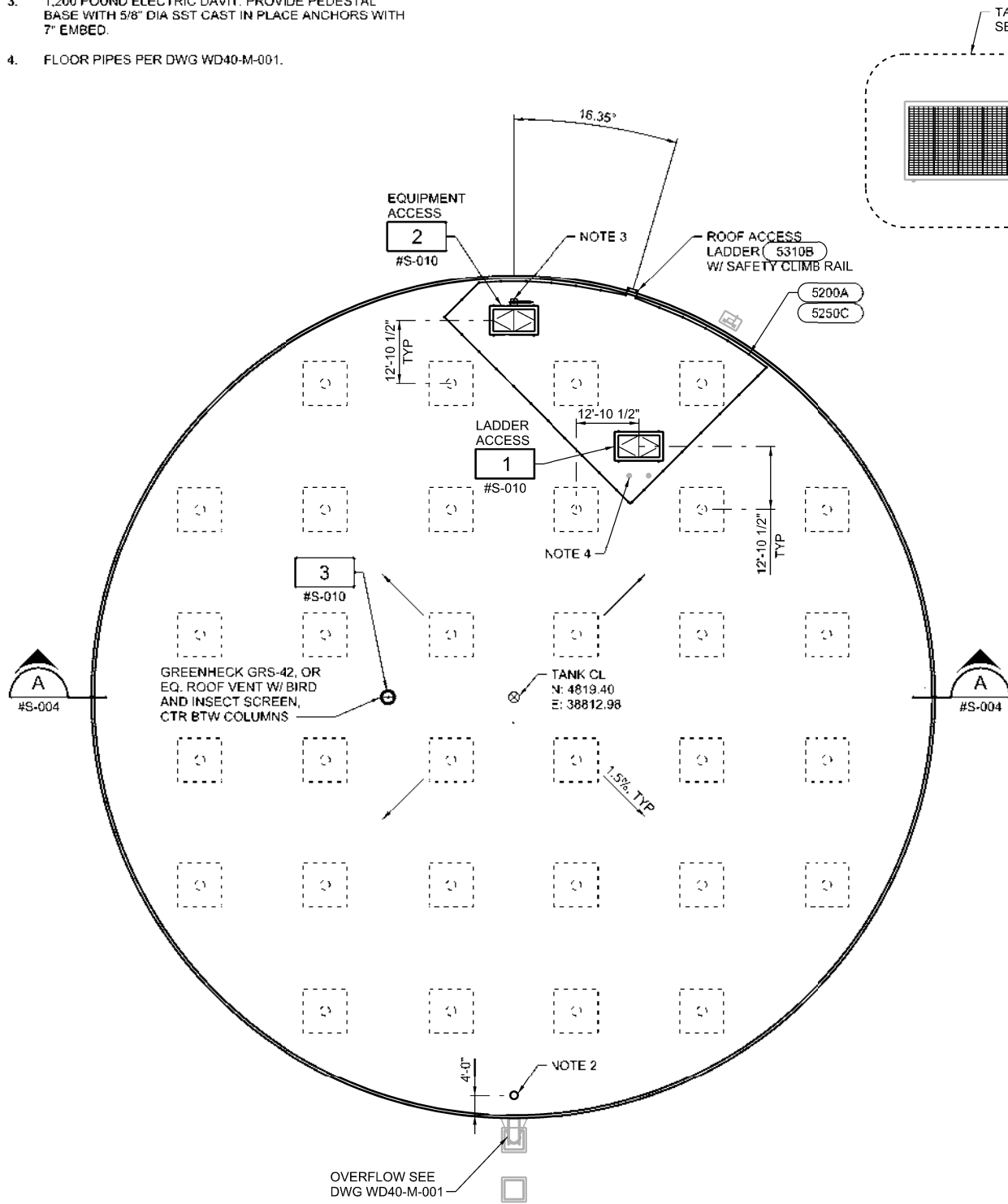
2 0 2 4 FEET
SCALE 1/2"=1'-0"



DESIGNED J. RISS/SJ KELLOGG	DRAWN J. MARTIN	CHECKED S. KADER	APPROVED M. FISHER
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
STRUCTURAL / MECHANICAL TANK VALVE VAULT SECTION			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD40-SM-002			
SHEET NUMBER 100			

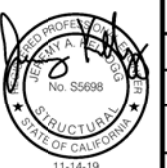
NOTES:

1. REPLACE "S" IN DRAWING WITH "WD40-".
2. 18" DIA CAST IN PLACE SST PIPE SLEEVE WITH SEEP RING CENTERED IN THE SLAB AND BLIND FLANGE AT THE ROOF SURFACE.
3. 1,200 POUND ELECTRIC DAVIT. PROVIDE PEDESTAL BASE WITH 5/8" DIA SST CAST IN PLACE ANCHORS WITH 7" EMBED.
4. FLOOR PIPES PER DWG WD40-M-001.

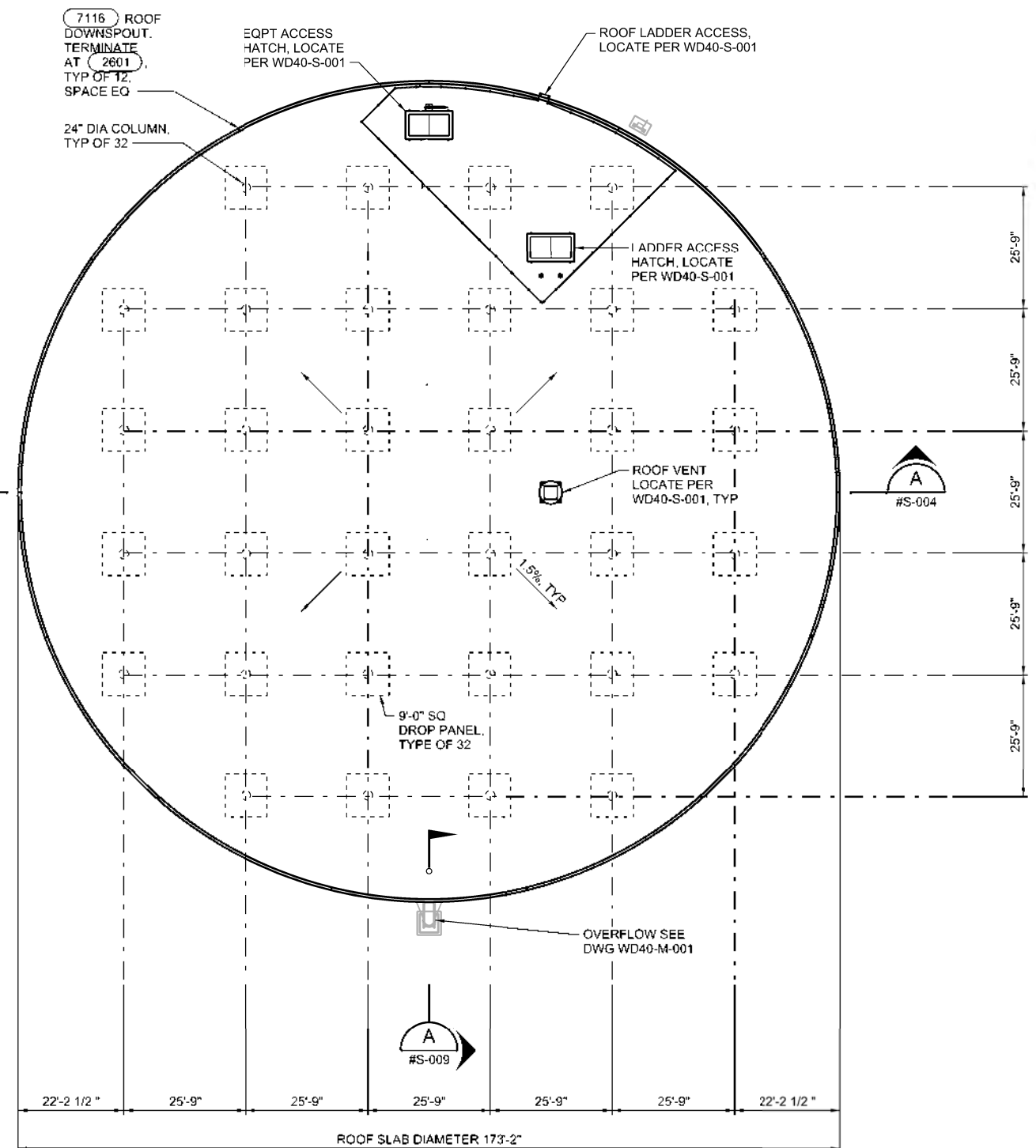


16 0 16 32 FEET
 SCA. E 1/16"=1'-0"

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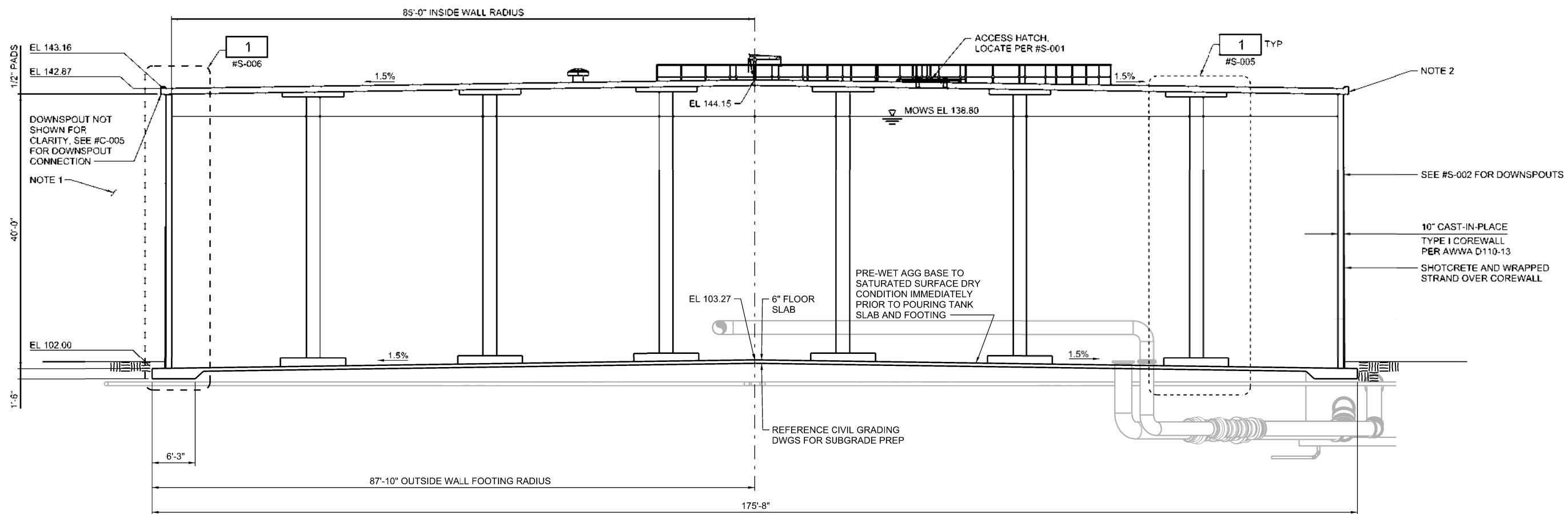


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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
STRUCTURAL WATER STORAGE TANKS PLANS			
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD40-S-001 SHEET NUMBER 102			

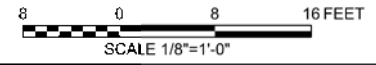


TANK NO 1 & 2 ROOF PLAN
1/16" = 1'-0"

- NOTES:
- 10'-0" MIN CLEARANCE FOR PRESTRESSING ECPT.
 - EXTERIOR TANK WALLS SHALL BE PAINTED UNIFORMLY FROM ONE FOOT BELOW FINISH GRADE TO THE TOP OF THE ROOF CURB.
 - REPLACE "W" IN DRAWING WITH "WD40".



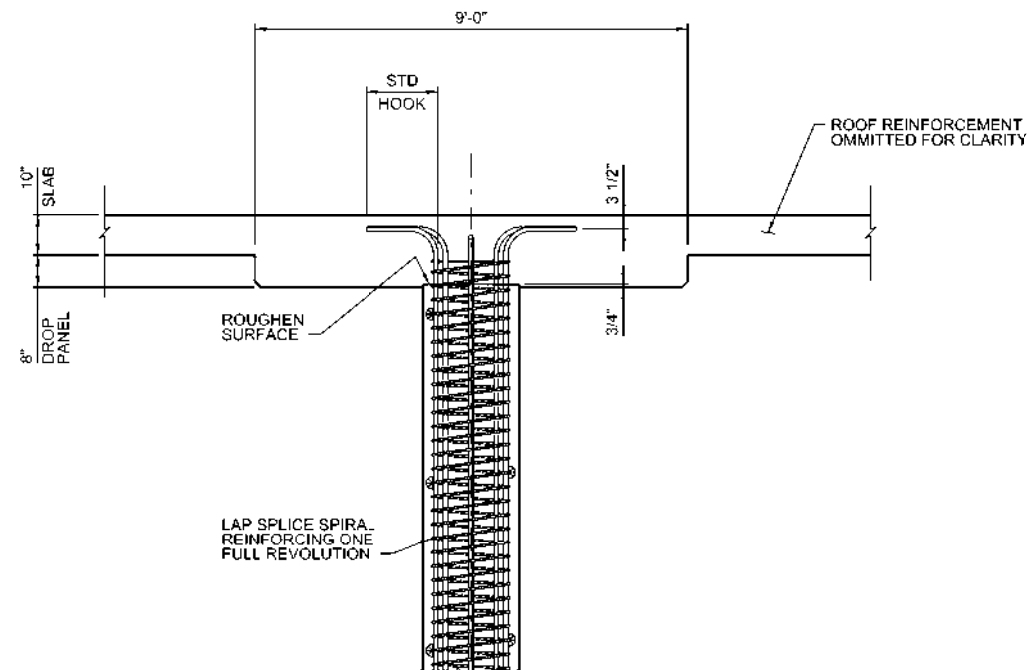
A SECTION
#S-001
#S-002
1/8" = 1'-0"



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STRUCTURAL TANK SECTION			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD40-S-004			
SHEET NUMBER 105			



8 - #8 VERTICAL BARS
#4 SPIRAL REINFORCING AT 3" PITCH
24" DIA COLUMN

REBAR SPACER, USE 6 SPACERS AT 60" HORIZONTALLY. START AT TOP AND BOTTOM. PLACE HORIZONTAL ROWS AT 36" MAX VERTICAL SPACING

LAP SPlice STEEL FROM FOOTING 48" TO COLUMN VERTICAL STEEL

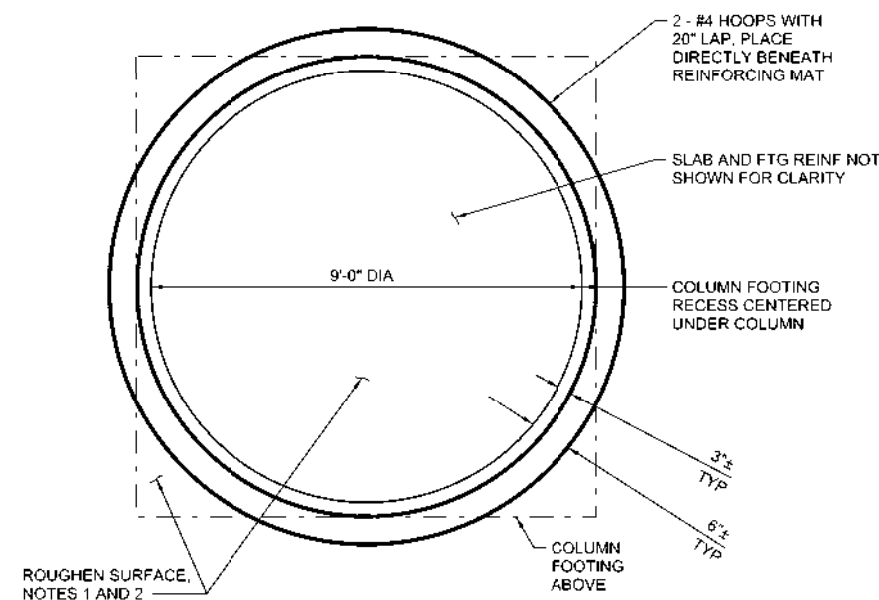
#5 @ 8" EW

2" DEEP CIRCULAR RECESS. ROUGHEN SURFACE

TYP SLAB REINFORCING

(19) ADDL #4x11'-0" ALT FOR 3" SPACING. EW, CTR UNDER COLUMN

1 DETAIL
#S-004 1/2" = 1'-0"



2 DETAIL
1/2" = 1'-0"

NOTES:

1. CONCRETE CONSTRUCTION JOINTS SHALL BE ADEQUATELY ROUGHENED TO EXPOSED AGGREGATE AND CLEANED BY SANDBLASTING, OR APPROVED EQUAL, PRIOR TO POURING THE COLUMN FOOTING.
2. REPLACE "4" IN DRAWING WITH "WD40-".

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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

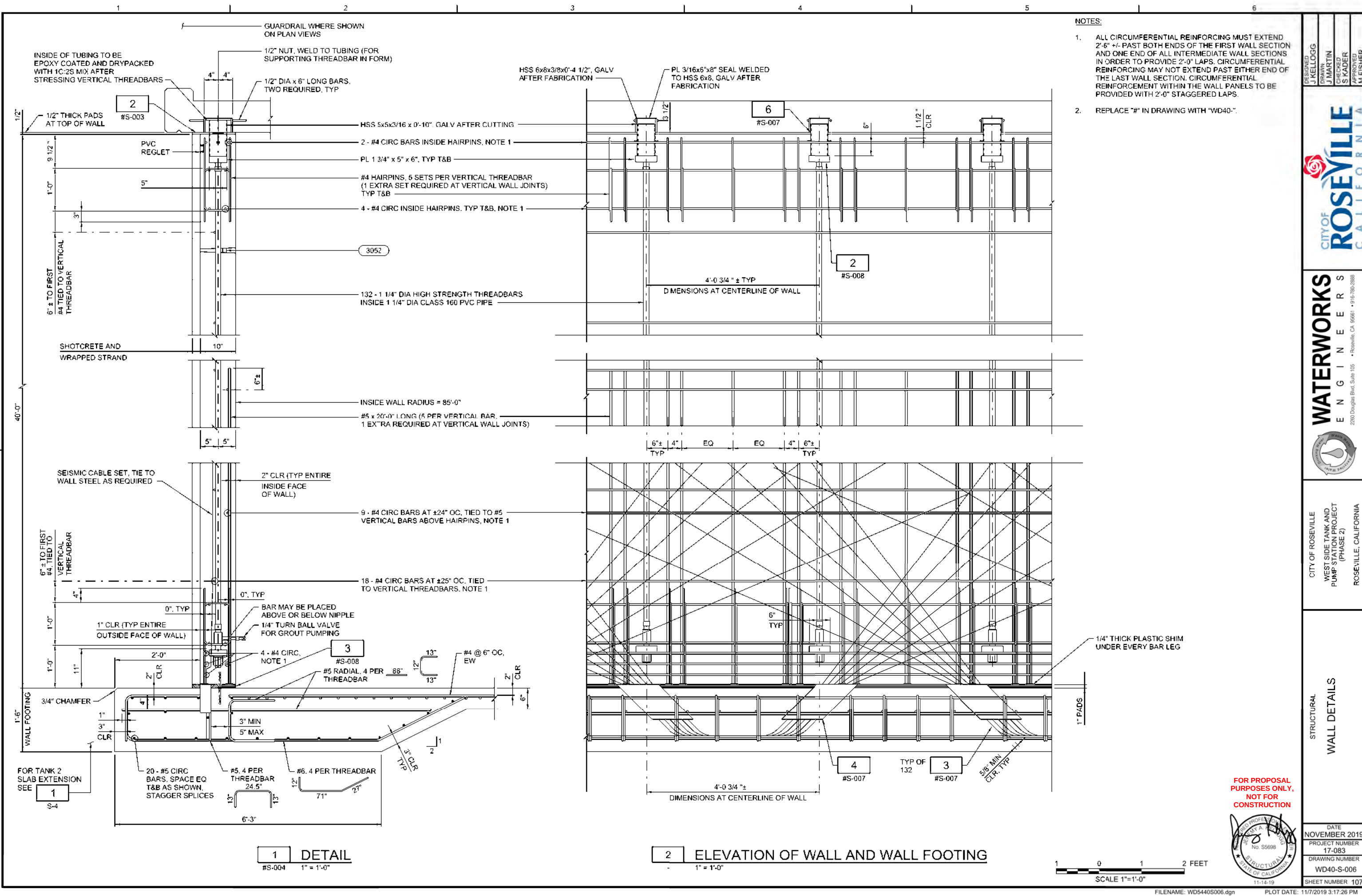
STRUCTURAL
COLUMN AND FOOTING
DETAIL

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD40-S-005
SHEET NUMBER 106

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2 0 2 4 FEET
SCALE 1/2"=1'-0"



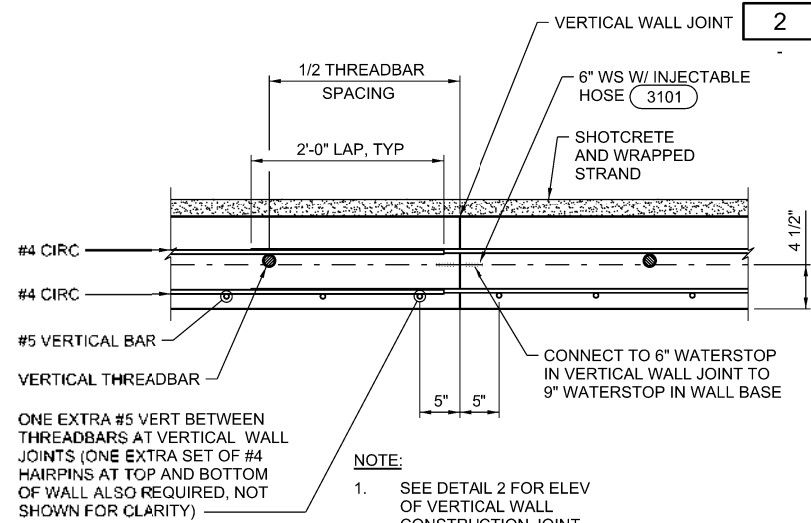
- NOTES:
- ALL CIRCUMFERENTIAL REINFORCING MUST EXTEND 2'-6" +/- PAST BOTH ENDS OF THE FIRST WALL SECTION AND ONE END OF ALL INTERMEDIATE WALL SECTIONS IN ORDER TO PROVIDE 2'-0" LAPS. CIRCUMFERENTIAL REINFORCING MAY NOT EXTEND PAST EITHER END OF THE LAST WALL SECTION. CIRCUMFERENTIAL REINFORCEMENT WITHIN THE WALL PANELS TO BE PROVIDED WITH 2'-0" STAGGERED LAPS.
 - REPLACE "R" IN DRAWING WITH "WD40-".

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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
STRUCTURAL WALL DETAILS			
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD40-S-006 SHEET NUMBER 107			

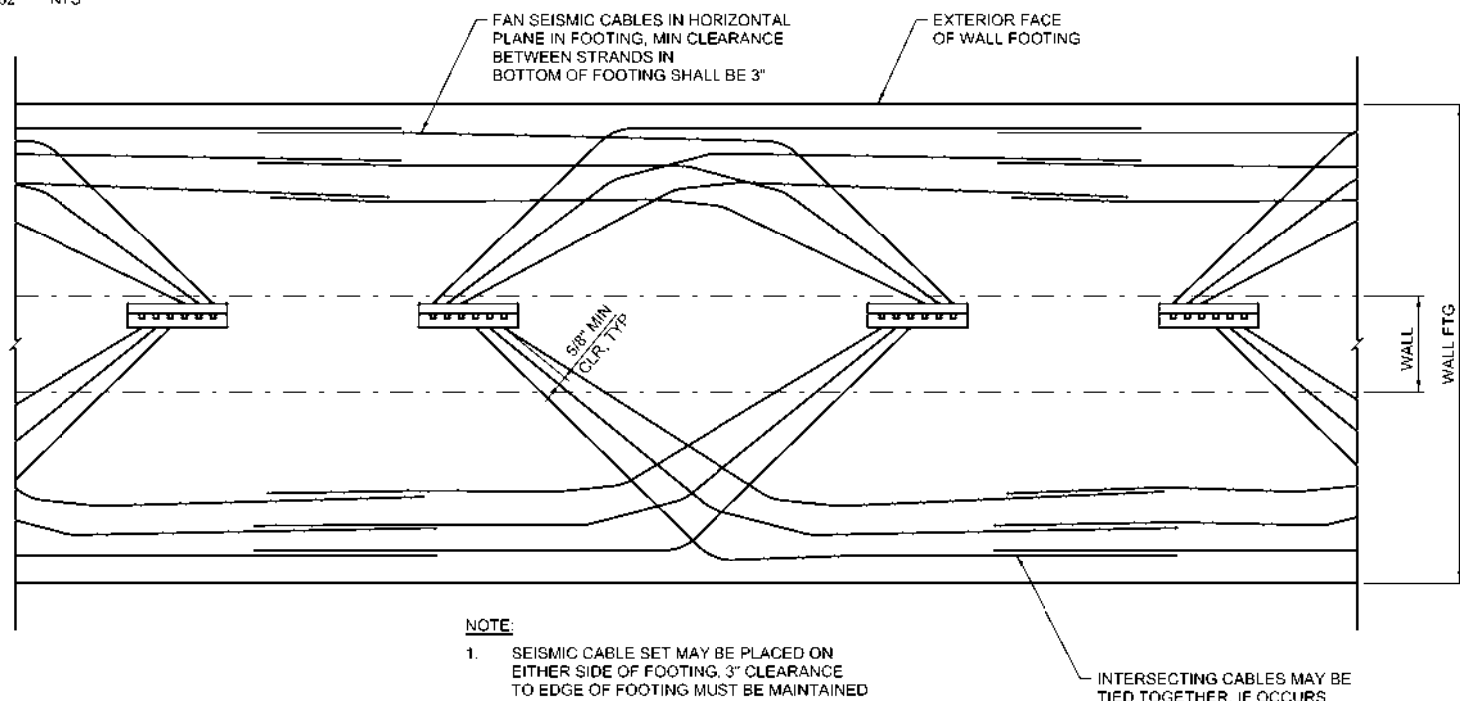
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SCALE 1"=1'-0"

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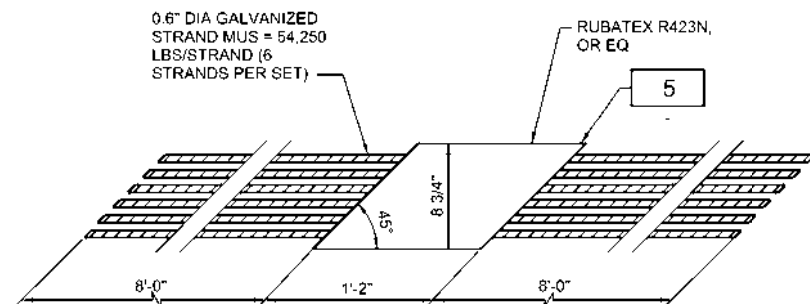


1 DETAIL
#S-002 NTS

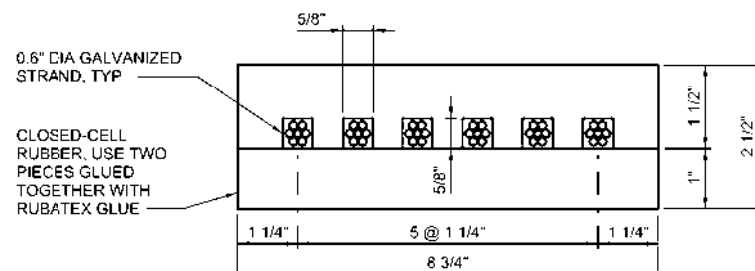


- NOTE:**
1. SEISMIC CABLE SET MAY BE PLACED ON EITHER SIDE OF FOOTING, 3\"

3 DETAIL
#S-006 NTS

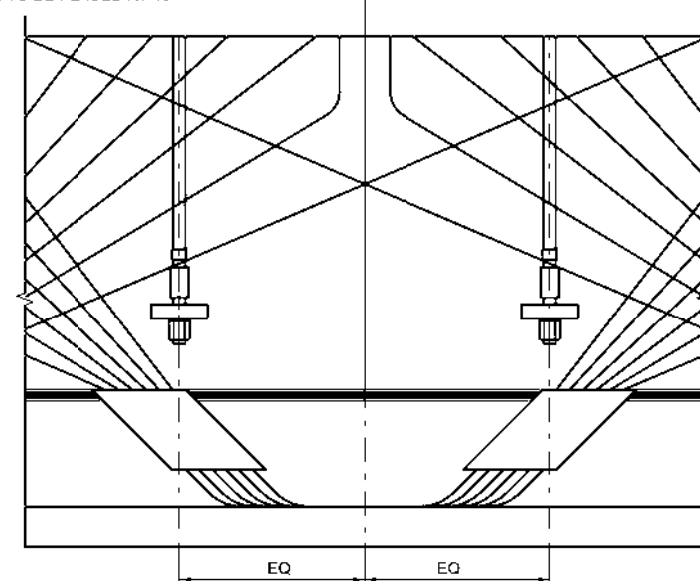


4 DETAIL
#S-006 NTS



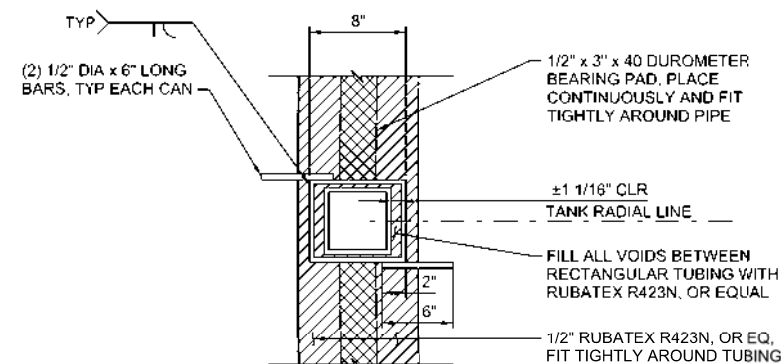
5 DETAIL
NTS

VERTICAL WALL JOINT, AT THE CONTRACTOR'S OPTION SOME OR ALL OF THE SEISMIC CABLES AT THE WALL JOINT MAY BE BENT BACK SO THEY DO NOT INTERFERE WITH THE WALL JOINT. IF CABLES ARE TO BE BENT BACK, BOTTOM 18\"



- NOTE:**
1. WALL AND FOOTING REINFORCING OMITTED FOR CLARITY, WALL JOINTS EVENLY SPACED.

2 DETAIL
NTS



WALL TO ROOF CONNECTION NOTES:

1. GLUE ALL PADS TO TOP OF WALL WITH BONDING AGENT.
2. FILL ALL VOIDS BETWEEN WALL, ROOF PADS AND TUBING WITH A SOFT MASTIC.
3. VERTICAL THREADBARS NUTS, AND BEARING PLATES OMITTED FOR CLARITY, VERIFY ALIGNMENT AND CLEARANCES DURING WALL POUR.

6 DETAIL
#S-006 NTS

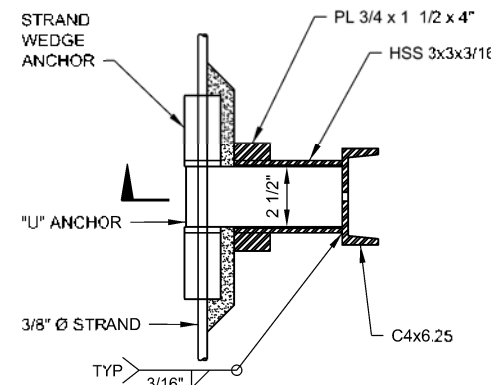
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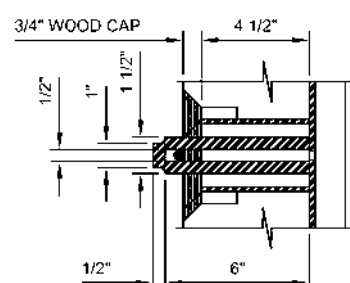
DESIGNED J. KELLOGG	DRAWN J. MARTIN	CHECKED S. KADER	APPROVED M. FISHER
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
STRUCTURAL WALL DETAILS			
DATE NOVEMBER 2019		PROJECT NUMBER 17-083	
DRAWING NUMBER WD40-S-007		SHEET NUMBER 108	

CIRCUMFERENTIAL PRESTRESSING NOTES

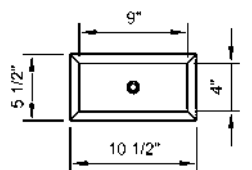
- 1) THE MAXIMUM STRESS TOLERANCE IN ANY STRAND AT ANY POINT AT ANY ELEVATION ON THE TANK WALL AT ANY TIME DURING THE WRAPPING OPERATION SHALL NOT EXCEED ± 320 POUNDS FROM THE AVERAGE FORCE SETTING OF 14,950 POUNDS.
- 2) THE CONTRACTOR SHALL PROVIDE A CONTINUOUSLY ELECTRONICALLY RECORDED FORCE APPLICATION GRAPH FOR THE FULL LENGTH OF ALL WRAPPED STRAND AS PERMANENT DOCUMENTED EVIDENCE THAT THE FORCE APPLICATION REQUIREMENTS HAVE BEEN MET. ALL SUCH FORCE READINGS MUST BE BASED ON CONTINUOUS SENSING OF THE STRAND BETWEEN THE TENSIONING DRUM AND THE WALL AS THE STRAND IS BEING LAID ON THE WALL.
- 3) MANUAL, INDIVIDUAL, OR INTERMITTENT FORCE READINGS TAKEN WHEN THE STRAND IS IN FULL BODILY CONTACT WITH THE WALL WILL NOT BE ACCEPTED.
- 4) FORCE READINGS BASED ON ANYTHING OTHER THAN INSTANTANEOUS MONITORING AS THE STRAND IS BEING TENSIONED WILL NOT BE ACCEPTED.
- 5) INTERNAL TENDONS PLACED CIRCUMFERENTIALLY INSIDE THE COREWALL WILL NOT BE ACCEPTED.
- 6) THE STRAND SHALL BE $3/8"$ Ø BEFORE GALVANIZING WITH A MINIMUM GALVANIZING OF 0.85 OUNCES PER SQUARE FOOT AND A MINIMUM BREAKING STRENGTH OF 21,400 POUNDS AFTER GALVANIZING.
- 7) THE STRAND SHALL BE INSTALLED AS INDICATED BY THE WALL WRAPPING REQUIREMENTS.
- 8) PRIOR TO PLACING ANY STRAND OR SHOTCRETE ON THE WALL, ALL EXTERIOR SURFACES OF THE CONCRETE COREWALL WHICH WILL RECEIVE STRANDWRAPPING SHALL BE ABRASIVELY BLASTED WITH A SELF-CONTAINED WATER-BLASTING SYSTEM TO REMOVE ALL LAITANCE, FORMOIL, OR OTHER TYPES OF COATINGS. THE SURFACE SHALL BE CUT TO A MINIMUM CSP5 SURFACE PROFILE AS ESTABLISHED BY ICRI OVER A MINIMUM OF 90% OF THE SURFACE BEING PREPARED. ONCE THE ABRASIVE BLASTING IS COMPLETE THE TANK WALL SURFACE SHALL BE PRESSURE WASHED TO REMOVE ALL DUST RESIDUE ON THE WALL SURFACE.
- 9) PROVIDE 1 1/2" MINIMUM OF SHOTCRETE COVERAGE OVER THE OUTER LAYER OF STRAND.
- 10) ALL SHOTCRETE TO BE APPLIED WITH AN AUTOMATED PROCESS KEEPING THE NOZZLE AT A CONSTANT DISTANCE AND ANGLE AS IT TRAVELS AT A UNIFORM BI-DIRECTIONAL SPEED. FINAL SHOTCRETE COVER TO HAVE A NATURAL GUN FINISH.



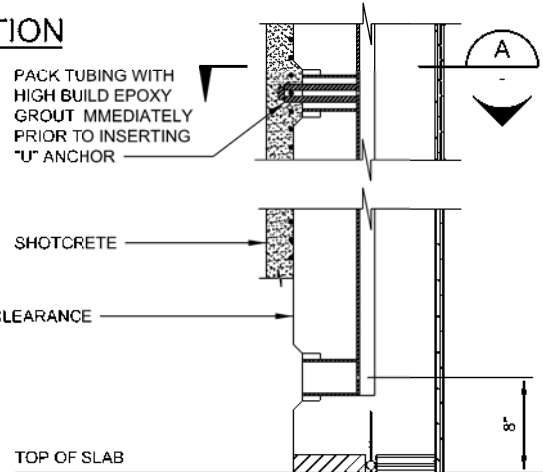
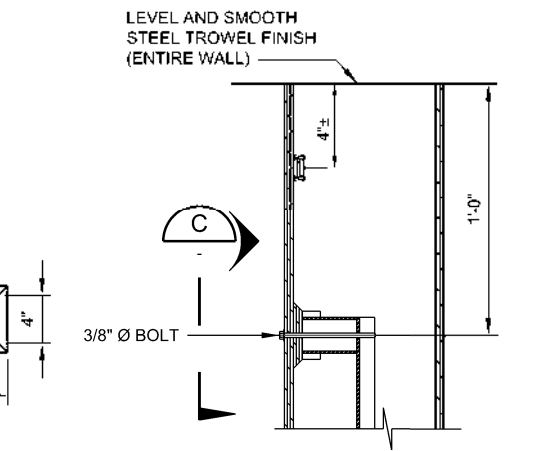
SECTION A
NTS



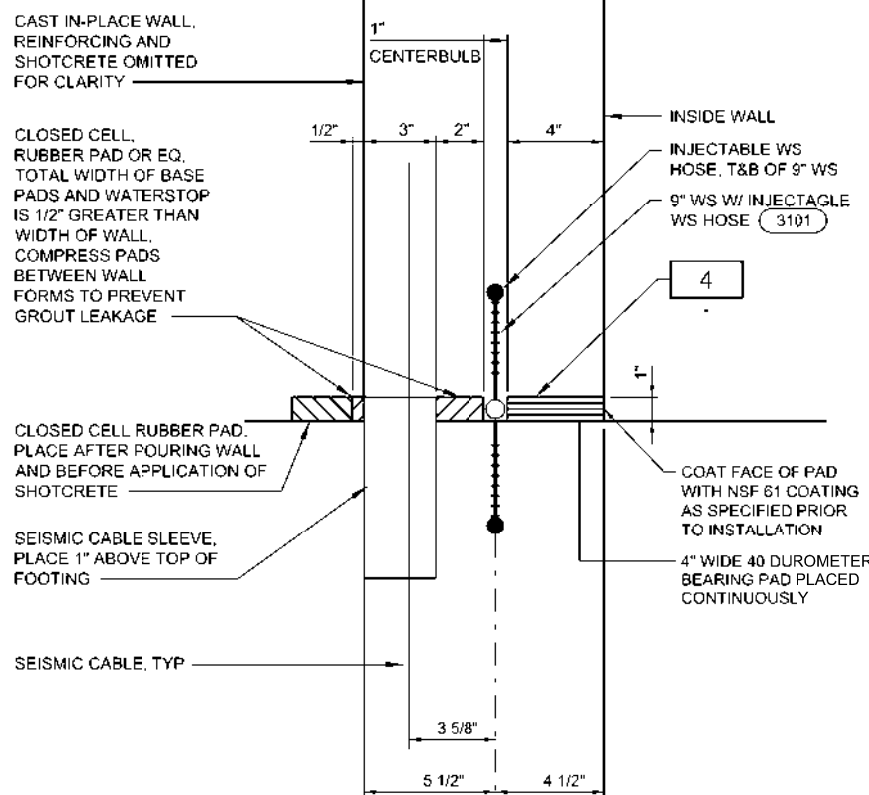
SECTION B
NTS



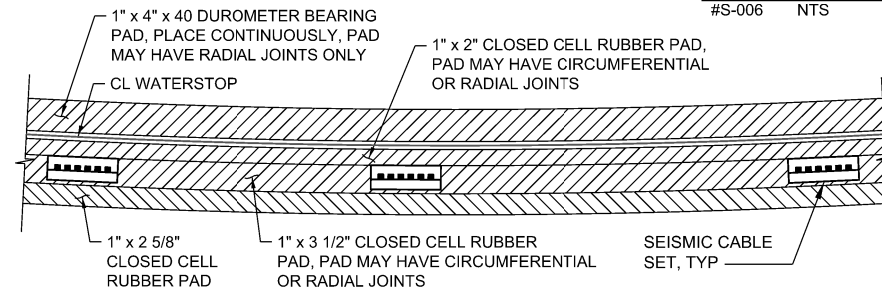
SECTION C
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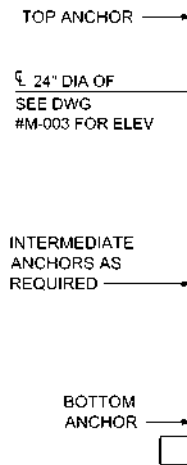
1 DETAIL
NTS



3 DETAIL
#S-006 3" = 1'-0"

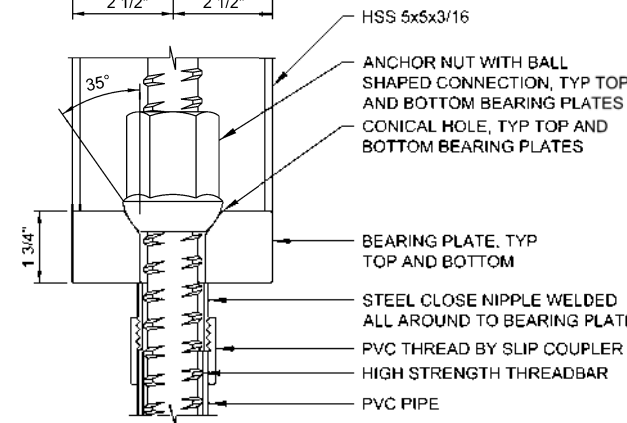
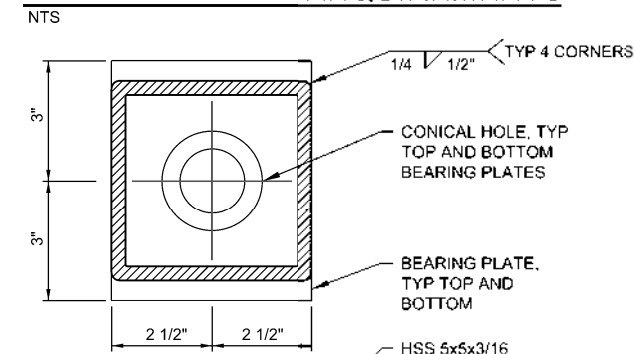


4 DETAIL
1" = 1'-0"



NOTE:
THE 2ND LAYER OF WRAPPING MAY BE PLACED FIRST AT THE CONTRACTOR'S OPTION.

WALL WRAPPING REQUIREMENTS

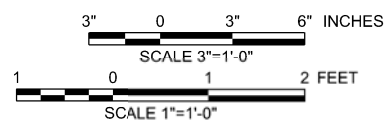


NOTE:
TOP ANCHOR SHOWN, BOTTOM ANCHOR SIMILAR

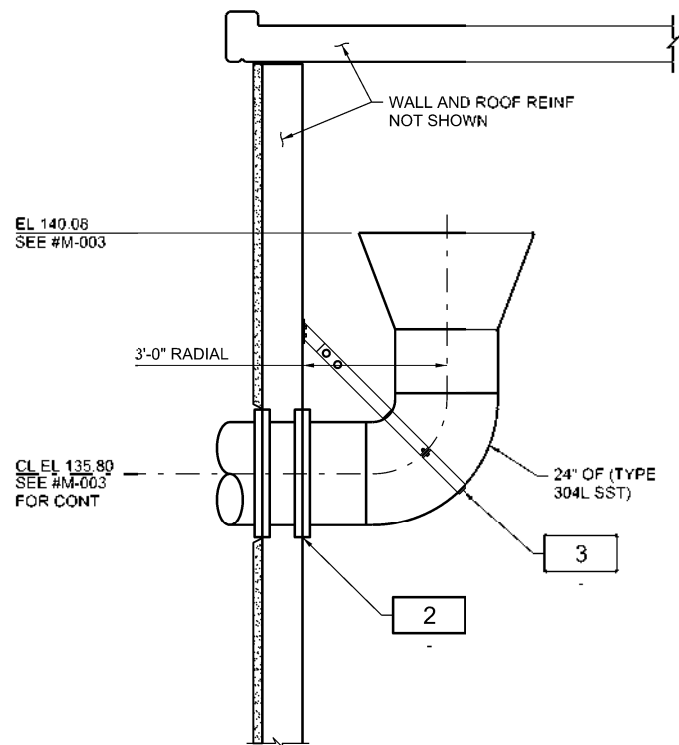
2 DETAIL
#S-006 NTS

WALL BASE JOINT NOTES:
1. GLUE ALL PADS TO TOP OF WALL FOOTING WITH NSF 61 ADHESIVE.
2. FILL ALL VOIDS BETWEEN BASE PADS, SEISMIC CABLE SLEEVE AND WATERSTOP WITH JOINT SEALANT.

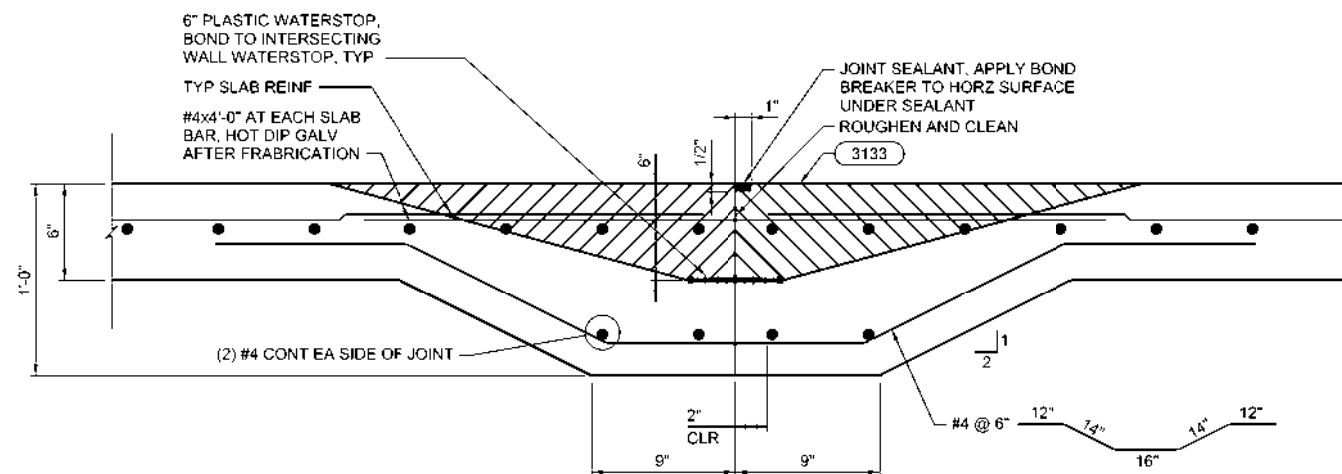
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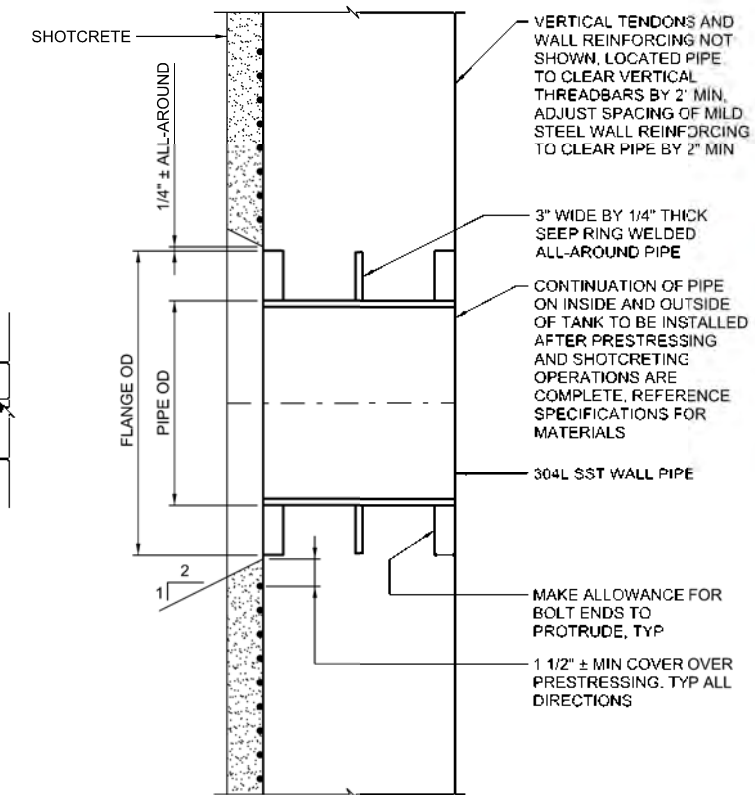
DESIGNED J. KELLOGG	DRAWN J. MARTIN	CHECKED S. KADER	APPROVED M. FISHER
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
STRUCTURAL TANK PRESTRESSING SECTIONS AND DETAILS			
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD40-S-008 SHEET NUMBER 109			



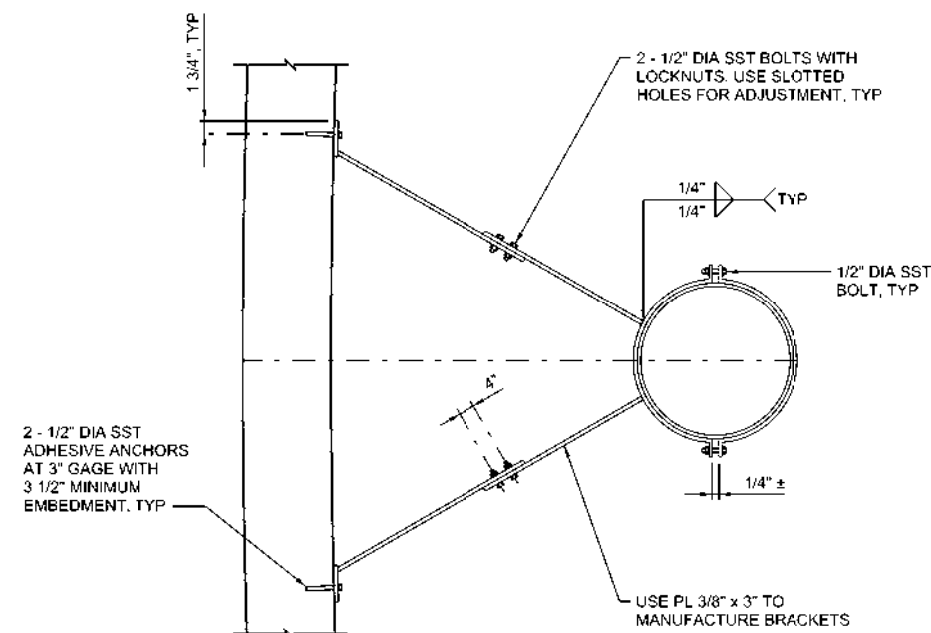
A SECTION
#S-001 NTS
#S-002



1 DETAIL
#S-002 NTS



2 DETAIL
NTS



3 DETAIL
NTS

PIPE BRACKET NOTES:

- ALL MATERIAL FOR OVERFLOW HOOD, SHIM PLATES, PIPE BRACKET AND ANGLE SUPPORTS TO BE SST 304L.
- USE SST 316 FOR ALL BOLTS NOT FULLY ENCASED IN CONCRETE UNLESS NOTED OTHERWISE. WHERE SST BOLTS ARE IN CONTACT WITH DISSIMILAR METALS, USE INSULATING SLEEVES AND PHENOLIC WASHERS TO ELECTRICALLY ISOLATE THE BOLTS.

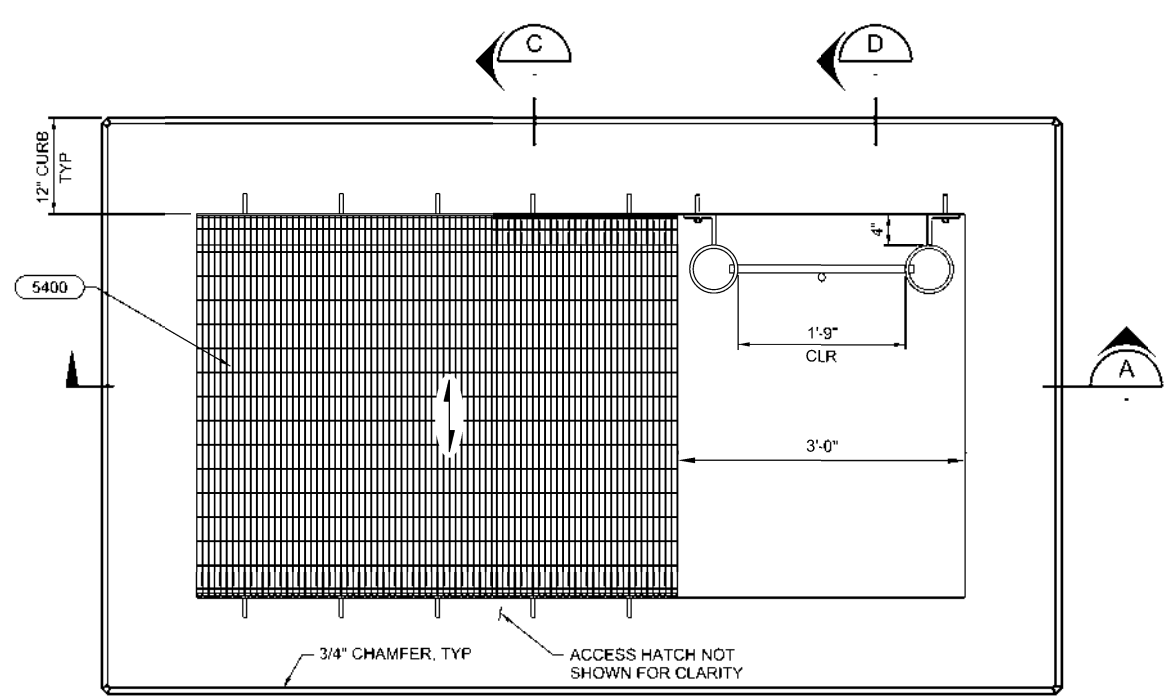
NOTES:

- REPLACE "#" IN DRAWING WITH "WD40-".

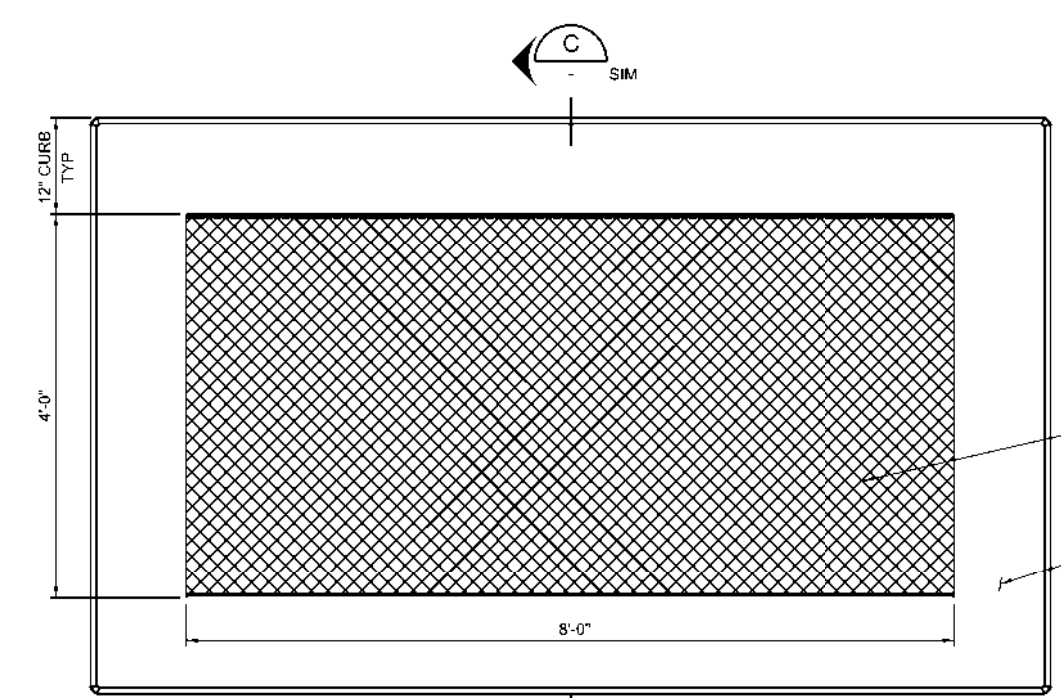
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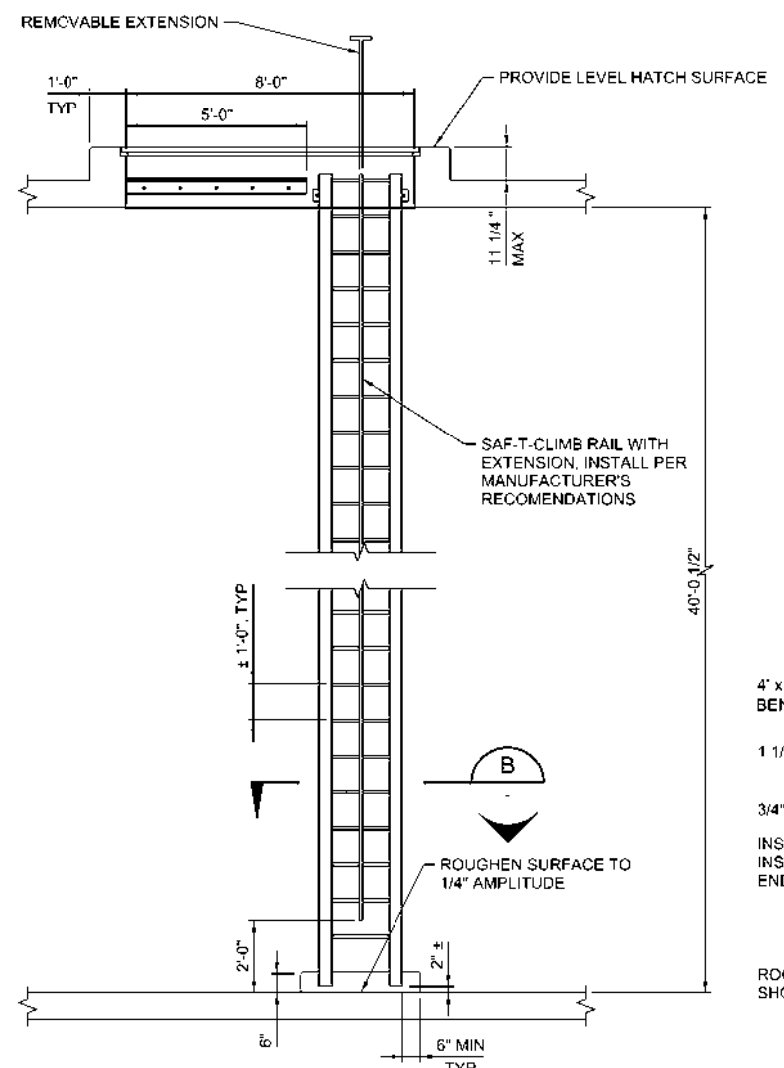
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
STRUCTURAL MISCELLANEOUS TANK SECTION AND DETAILS			
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD40-S-009 SHEET NUMBER 110			



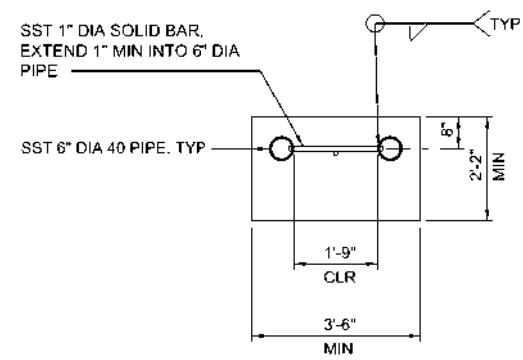
1 DETAIL
#S-001 1" = 1'-0"



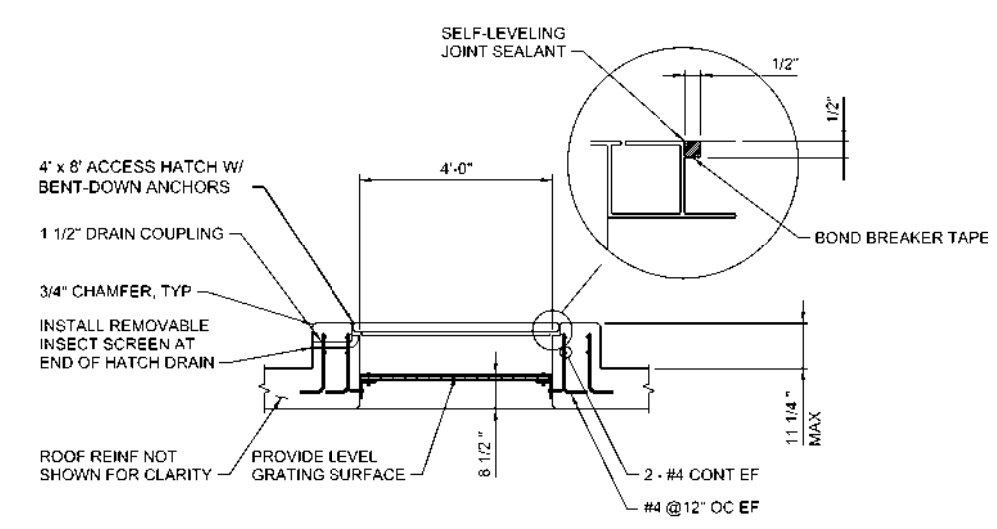
2 DETAIL
#S-001 1" = 1'-0"



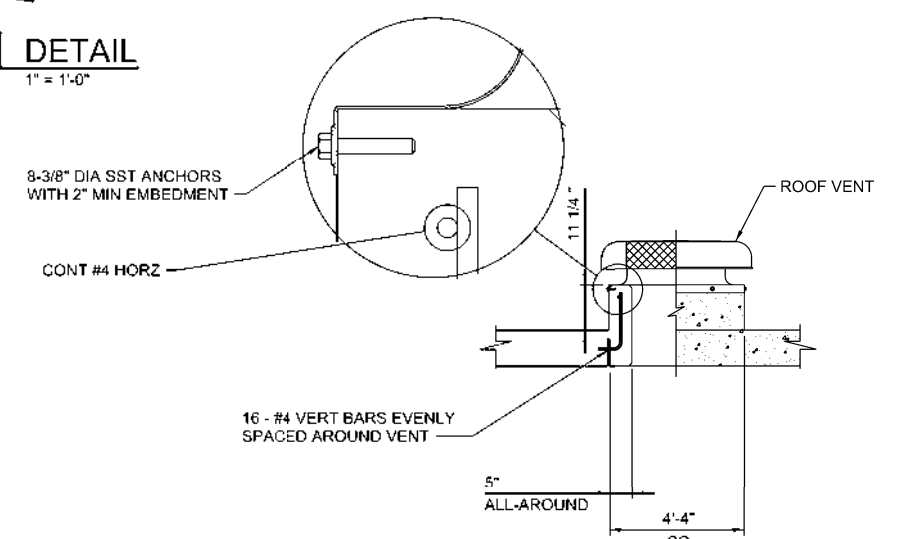
A SECTION
3/8" = 1'-0"



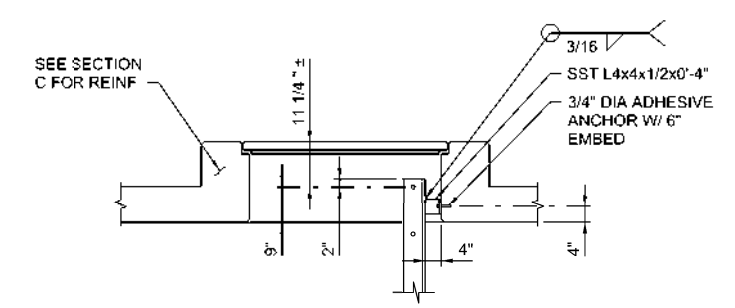
B SECTION
1/2" = 1'-0"



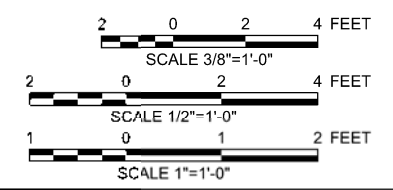
C SECTION
1/2" = 1'-0"



3 DETAIL
#S-001 NTS



D SECTION
1/2" = 1'-0"



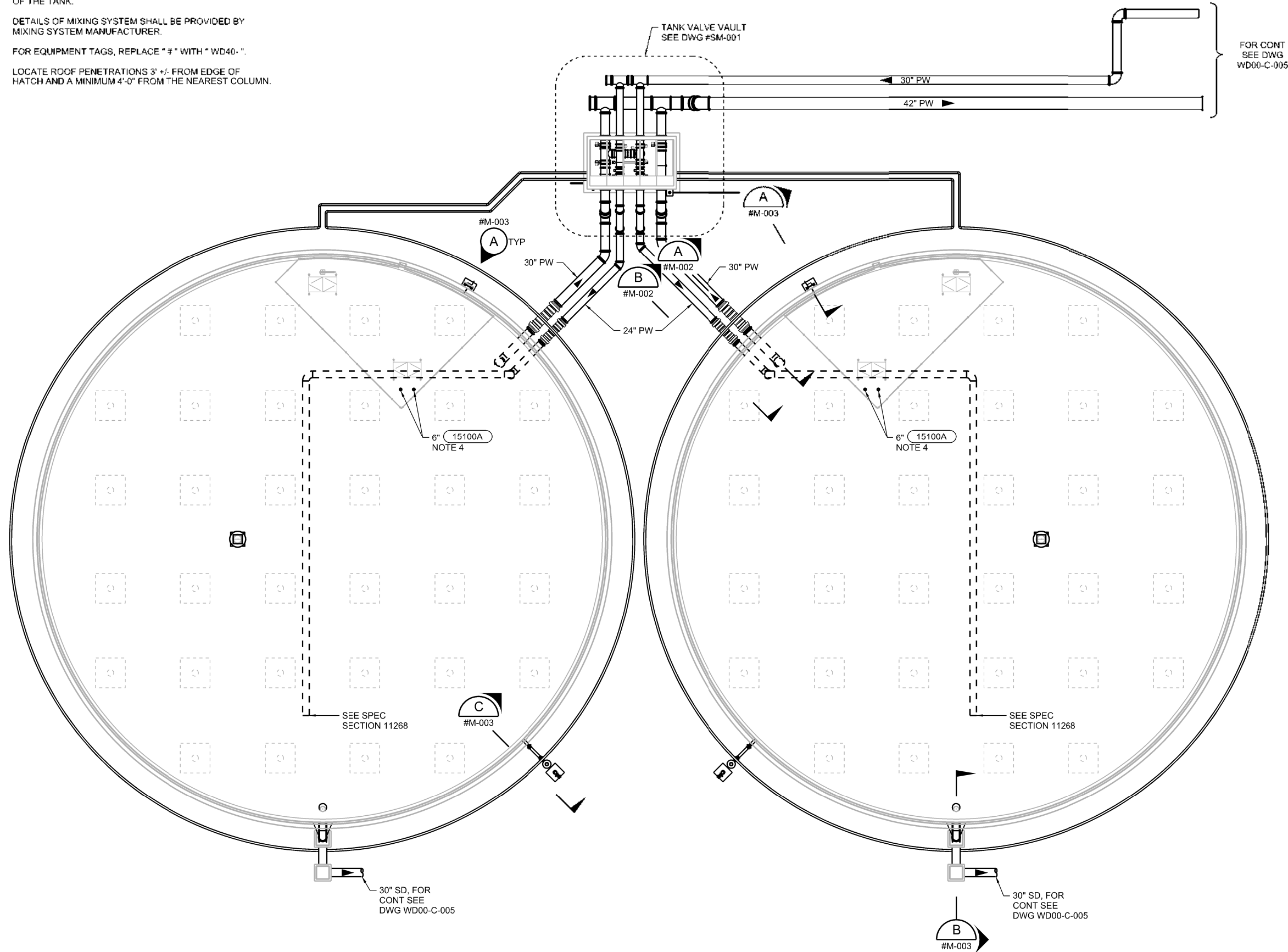
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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
STRUCTURAL MISCELLANEOUS TANK DETAILS #2			
DATE NOVEMBER 2019		PROJECT NUMBER 17-083	
DRAWING NUMBER WD40-S-010		SHEET NUMBER 111	

NOTES:

1. RESERVOIR HYDRODYNAMIC MIXING SYSTEM TO BE INSTALLED BETWEEN COLUMNS TOWARDS THE CENTER OF THE TANK.
2. DETAILS OF MIXING SYSTEM SHALL BE PROVIDED BY MIXING SYSTEM MANUFACTURER.
3. FOR EQUIPMENT TAGS, REPLACE "#" WITH "WD40-".
4. LOCATE ROOF PENETRATIONS 3' +/- FROM EDGE OF HATCH AND A MINIMUM 4'-0" FROM THE NEAREST COLUMN.



PLAN
1/16" = 1'-0"

16 0 16 32 FEET
SCALE 1/16"=1'-0"

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DESIGNED	M. FISHER
DRAWN	J. MARTIN
CHECKED	S. KADER
APPROVED	M. FISHER

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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

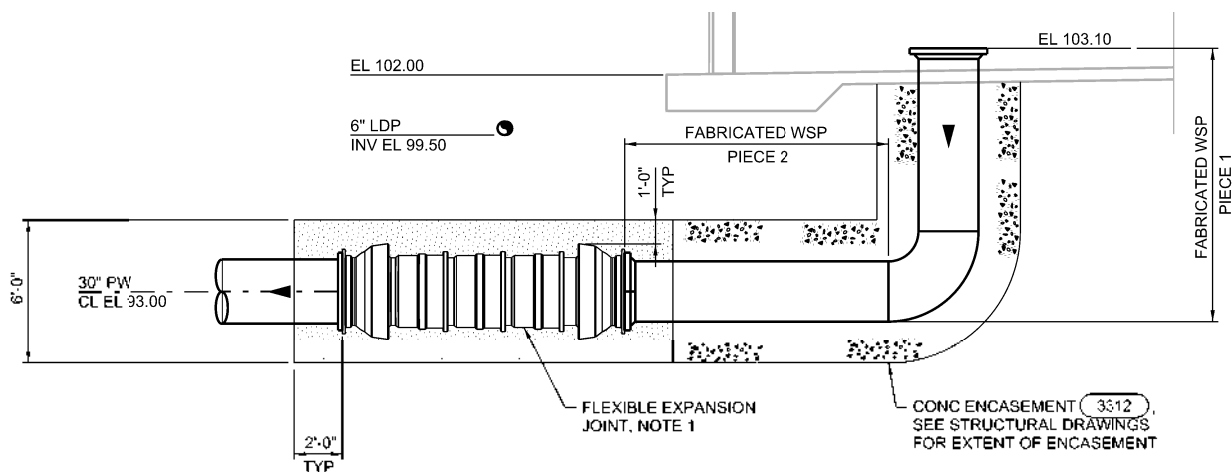
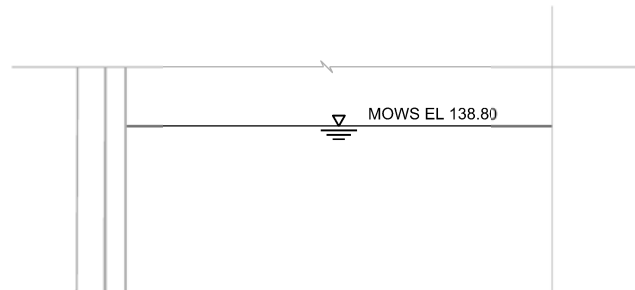
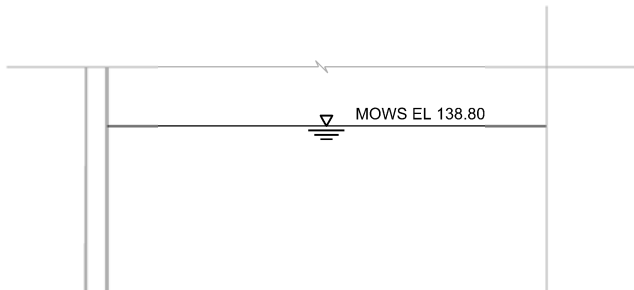
MECHANICAL
**WATER STORAGE TANKS
PLAN**

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD40-M-001
SHEET NUMBER	112

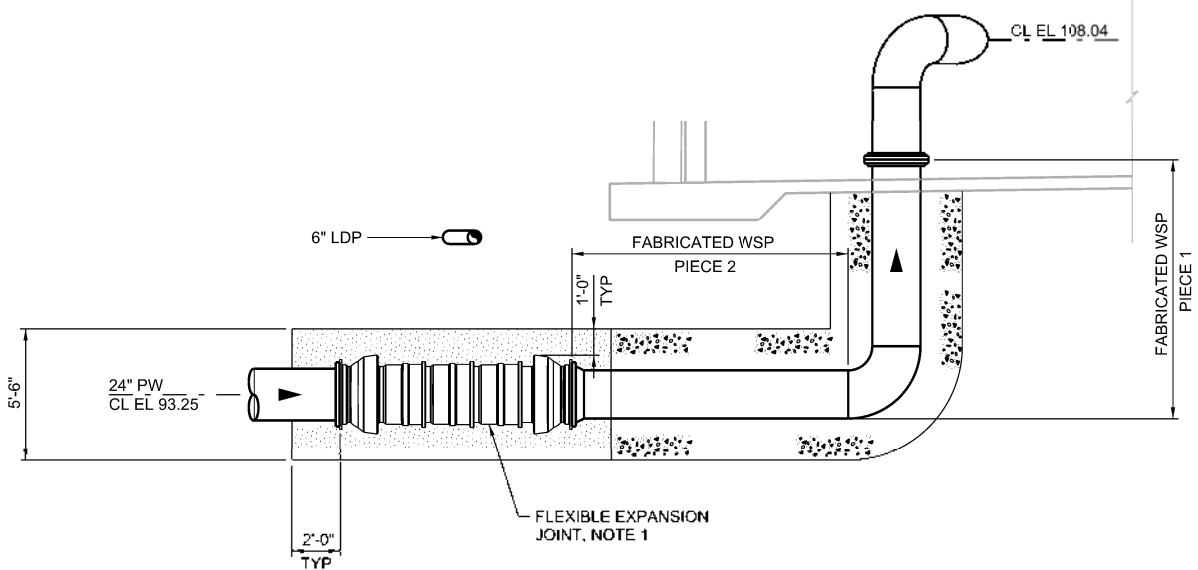
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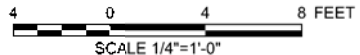
- NOTES:
- 1. WRAP THE FLEXIBLE EXPANSION JOINT WITH POLYETHYLENE WRAP IN AT LEAST TWO LAYERS. WRAP PROVIDED BY MANUFACTURER.
 - 2. THE FLANGE FACE SHALL BE MACHINED AND NOT COATED. THE REMAINDER OF THE FLANGE SHALL BE COATED. FLANGE CONNECTION MUST BE 2'-0" MIN OUTSIDE OF TANK FOOTING.



A SECTION
WD40-M-001 1/4" = 1'-0"



B SECTION
WD40-M-001 1/4" = 1'-0"



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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
MECHANICAL TANK SECTIONS			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD40-M-002			
SHEET NUMBER 113			



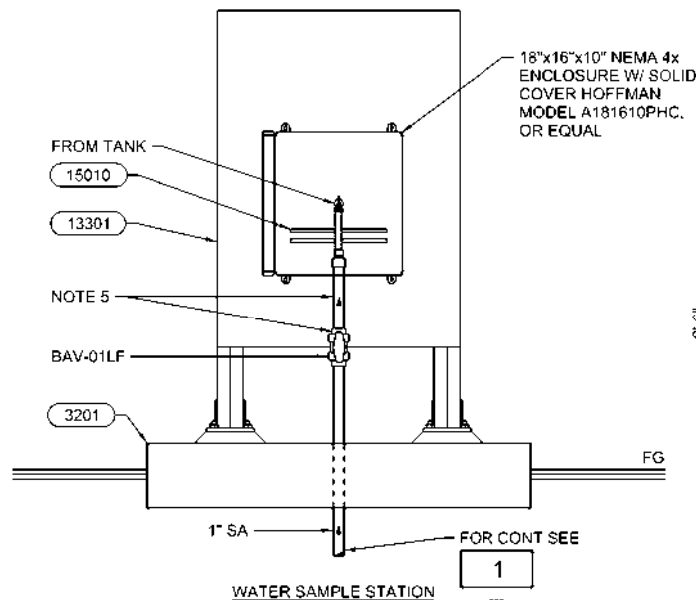
1 PHOTO
NTS



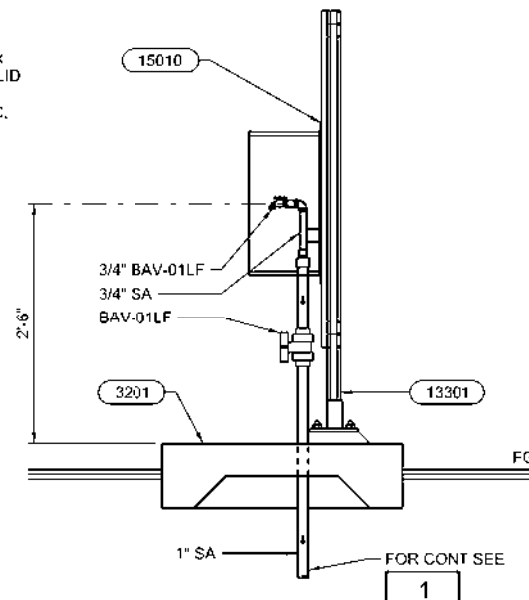
2 PHOTO
NTS

2 SCREEN TO BE VISIBLE TO OPERATOR WITHOUT TAKING VENT APART

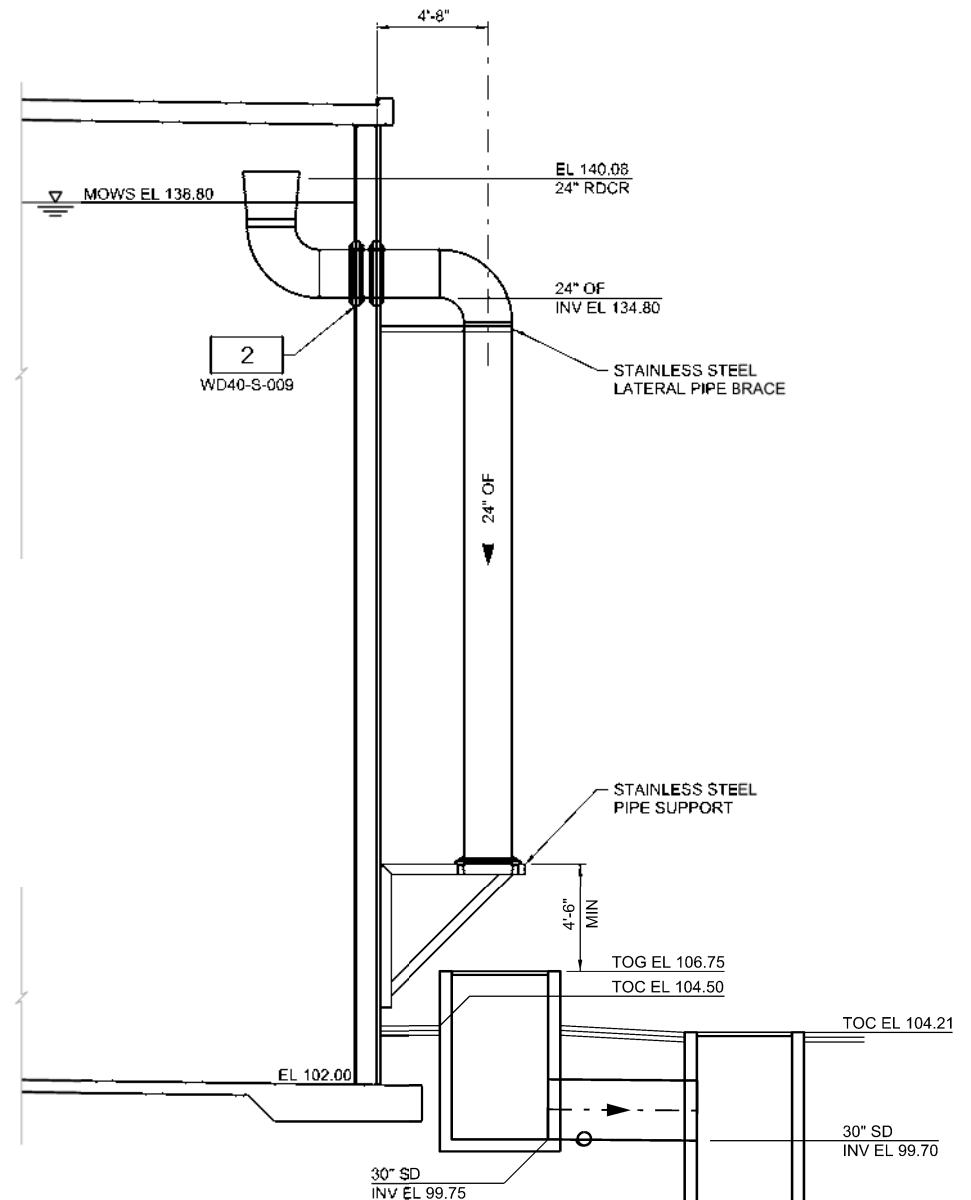
SAMPLE OF INSTALLED BIRD AND INSECT SCREEN. INSECT SCREEN SHALL BE 24 MESH 316 SS. BIRD SCREEN SHALL BE 4 MESH 316 SS.



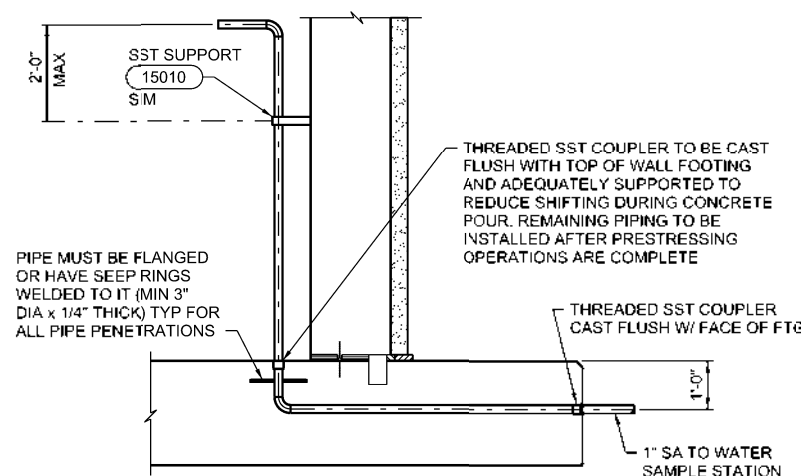
A ELEVATION
3/4" = 1'-0"
WD40-M-001



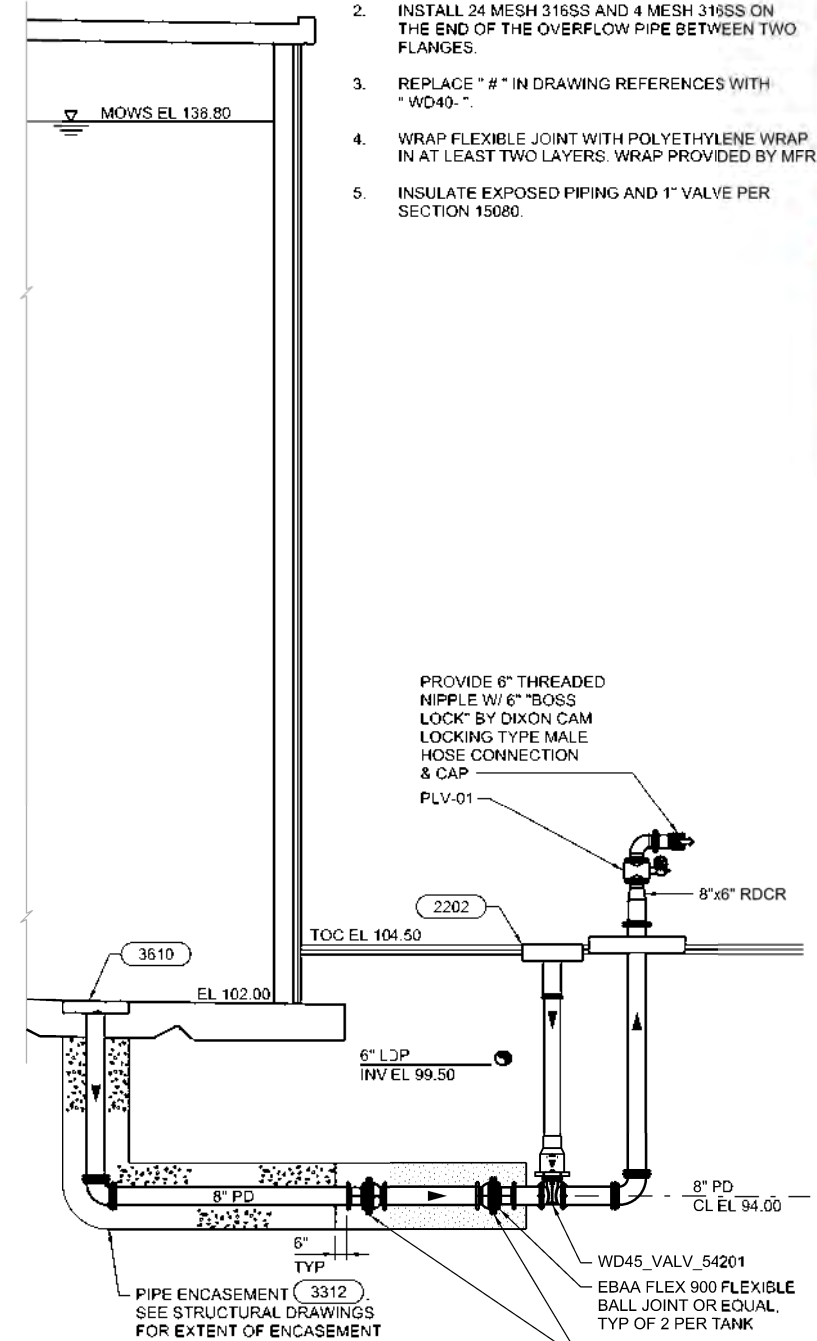
A SECTION
3/4" = 1'-0"
WD40-M-001



B SECTION
WD40-M-001 1/4" = 1'-0"

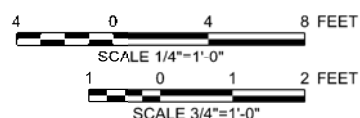


1 DETAIL
NTS



C SECTION
WD40-M-001 1/4" = 1'-0"

- NOTES:
- 10'-0" MIN CLEARANCE FOR PRESTRESSING EQPT.
 - INSTALL 24 MESH 316SS AND 4 MESH 316SS ON THE END OF THE OVERFLOW PIPE BETWEEN TWO FLANGES.
 - REPLACE " # " IN DRAWING REFERENCES WITH " WD40- ".
 - WRAP FLEXIBLE JOINT WITH POLYETHYLENE WRAP IN AT LEAST TWO LAYERS. WRAP PROVIDED BY MFR.
 - INSULATE EXPOSED PIPING AND 1" VALVE PER SECTION 15080.



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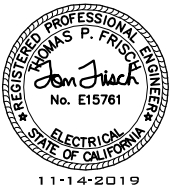


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CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
MECHANICAL TANK SECTIONS, ELEVATION AND PHOTOS			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD40-M-003			
SHEET NUMBER 114			

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
COMPONENTS		SWITCHES – PROCESS		DEVICES – RELAY		WIRING – CONNECTIONS	
	RESISTOR		FLOW SWITCH – CLOSSES UPON INCREASING FLOW		CONTACTOR OR STARTER M1		PANEL OR EQUIPMENT WIRING
	SOLENOID COIL		FLOW SWITCH – OPENS UPON INCREASING FLOW		CONTROL RELAY CR1		FIELD WIRING
	HEATER		LEVEL SWITCH – CLOSSES UPON INCREASING LEVEL		TIME DELAY RELAY TR2 – ADJUSTABLE TIME DELAY RANGE & SETTING AS SHOWN		CONDUCTORS – NOT CONNECTED
	CAPACITOR		LEVEL SWITCH – OPENS UPON INCREASING LEVEL		TIME DELAY ON ENERGIZATION		CONDUCTORS – CONNECTED
	DIODE		PRESSURE SWITCH – CLOSSES UPON INCREASING PRESSURE (DECREASING VACUUM)		TIME DELAY ON DE-ENERGIZATION		GROUND CONNECTION
	DIODE, ZENER		PRESSURE SWITCH – OPENS UPON INCREASING PRESSURE (DECREASING VACUUM)		REFERENCED RELAY WITH N.O. CONTACT ON LINE 107 N.C. CONTACT ON LINE 121		PLUG AND RECEPTACLE
	METAL OXIDE VARISTOR		TEMPERATURE SWITCH – CLOSSES UPON INCREASING TEMPERATURE		NORMALLY OPEN, RELAY CONTACT – ACTUATED BY RELAY CR1 COIL LOCATED ON LINE 105		INCOMING LINE
	AUDIBLE ALARM		TEMPERATURE SWITCH – OPENS UPON INCREASING TEMPERATURE		NORMALLY CLOSED, RELAY CONTACT – ACTUATED BY RELAY CR1		TERMINAL BLOCKS WITH TERMINAL NUMBER AS SHOWN
	3 PHASE MOTOR ? = MOTOR HP		LIMIT SWITCH – CLOSSES AT SET LIMIT		NORMALLY OPEN, TIME DELAY RELAY CONTACT – CONTACT CLOSSES AFTER TR2 IS ENERGIZED		TERMINAL BLOCKS WITH TERMINAL NUMBER DETERMINED BY SUBMITTAL
	3 PHASE MOTOR		LIMIT SWITCH – OPENS AT SET LIMIT		NORMALLY CLOSED, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS ENERGIZED		SHIELDED CABLE
	SINGLE PHASE MOTOR		TORQUE SWITCH – CLOSSES UPON INCREASING TORQUE		NORMALLY CLOSED, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS DE-ENERGIZED	PLAN – SYMBOLS	
	TRANSFORMER SIZE AND VOLTAGE AS SHOWN		TORQUE SWITCH – OPENS UPON INCREASING TORQUE		NORMALLY OPEN, TIME DELAY RELAY CONTACT – CONTACT OPENS AFTER TR2 IS DE-ENERGIZED		
	UTILITY POWER METER		GROUND ROD		NORMALLY CLOSED, TIME DELAY RELAY CONTACT – CONTACT CLOSSES AFTER TR2 IS DE-ENERGIZED		CONDUIT, EXPOSED
	UFER GROUND		CURRENT TRANSFORMER RATIO AS NOTED		CONTACT OPENS AND CLOSSES IN A TIMED REPEAT CYCLE		CONDUIT, IN SLAB OR BELOW GRADE
	GROUND ROD						CONDUIT, CONCEALED IN WALL OR CEILING
	DISCONNECT SWITCH SIZED PER FEEDER						CONDUIT STUBBED OUT & CAPPED
SWITCHES – OPERATOR		DEVICES – FRONT PANEL		DEVICES – PROTECTIVE			CONDUIT BENDS TOWARD OBSERVER
	TOGGLE OR DISCONNECT SWITCH		INDICATING LIGHT, LETTER "X" INDICATES COLOR: R=RED G=GREEN, A=AMBER, W=WHITE Y=YELLOW, B=BLUE		LOW VOLTAGE MOLDED CASE, INSULATED CASE OR POWER CIRCUIT BREAKER, RATINGS AS SHOWN IN DRAWINGS AND AS DEFINED BELOW: xA: CIRCUIT BREAKER AMERAGE xAT: AMPERAGE TRIP xAf: AMPERAGE FRAME xP: NUMBER OF POLES xT: TRIP PROTECTION MCP: MOTOR CIRCUIT PROTECTION TM: THERMAL MAGNETIC L: LONG TIME DELAY S: SHORT TIME DELAY I: INSTANTANEOUS TRIP G: GROUND FAULT A: ARC FLASH PROTECTION 100% DUTY RATED y: BREAKER FEATURES / OPTIONS – SHUNT TRIP – KIRK-KEY INTERLOCK – MANUALLY CHARGED PUSHBUTTON OPERATION – ELECTRICALLY CHARGED PUSHBUTTON OPERATION		CONDUIT BENDS AWAY FROM OBSERVER
	PUSHBUTTON – NORMALLY OPEN, MOMENTARY ACTION		INDICATING LIGHT, PUSH TO TEST		CONDUIT ENDS		FLEXIBLE CONDUIT CONNECTION FROM J-BOX TO EQUIPMENT
	PUSHBUTTON – NORMALLY CLOSED, MOMENTARY UNLESS LOS (LOCK OUT STOP) WHERE MECHANICALLY HELD		ELAPSED TIME METER		CONDUIT CHANGE IN ELEVATION		BARE COPPER GROUND WIRE
	PUSHBUTTON, MECHANICALLY CONNECTED, DOUBLE CIRCUIT – NORMALLY CLOSED AND NORMALLY OPEN				GROUND CONNECTION BOLTED TYPE		GROUND CONNECTION EXOTHERMIC WELD TYPE
	SELECTOR SWITCH, 3 POSITION – CONTACT STATUS SHOWN EXISTS I.E. AT POSITION OF HAND, OFF, OR AUTO				DISCONNECT SWITCH		FIELD MOUNTED DEVICE
	SELECTOR SWITCH, 2 POSITION – MIDDLE POSITION IS DELETED				TELEPHONE/DATA RECEPTACLE 2 PORT TA568A, 2 CAT 6 CABLES		CONDUIT REFERENCE TO SCHEDULE
	POTENTIOMETER				THERMOSTAT		EYS SEAL
					JUNCTION BOX		PULL BOX OF SIZE SHOWN (CHRISTY BOX SIZE MINIMUM)
					LIGHTING FIXTURE # – CIRCUIT BREAKER NUMBER A – FIXTURE SCHEDULE REF. a – CONTROL SWITCH REFERENCE		DUPLEX RECEPTACLE # – CIRCUIT BREAKER NUMBER WP – WEATHERPROOF (IF SHOWN) GFI – GROUND FAULT TYPE
					TOGGLE SWITCH a – FIXTURES CONTROLLED 3 – 3 WAY M = MOTION DETECTOR T = TIMER SWITCH		SPECIAL RECEPTACLE AS REQUIRED FOR EQUIPMENT TO BE CONNECTED
					THERMAL OVERLOAD CONTACT		
					FUSE		
					MEDIUM VOLTAGE CIRCUIT BREAKER		
					TRIP FUNCTIONS PER DRAWINGS AND SPECIFICATIONS		
					MULTIFUNCTION RELAY PER SPECIFICATIONS		

MISCELLANEOUS ABBREVIATIONS			
&	AND	MTR	MOTOR
⊕	AT	MUX	MULTIPLEXER
A	AMBER, AMPERES	MV	MERCURY VAPOR, MEDIUM VOLTAGE
AC	ALTERNATING CURRENT	N	NEUTRAL
ACK	ACKNOWLEDGE	NC	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NHC	NORMALLY HELD CLOSED
AH	AMP HOUR	NHO	NORMALLY HELD OPEN
AI	ANALOG INPUT	NIC	NOT IN CONTRACT
AIC	AMP INTERRUPTING CAPACITY SYMMETRICAL	NL	NIGHT LIGHT
AM	AMP METER	NO	NORMALLY OPEN
AO	ANALOG OUTPUT	NTS	NOT TO SCALE
AWG	AMERICAN WIRE GAUGE	(N)	NEW
ATS	AUTOMATIC TRANSFER SWITCH	OC	ON CENTER
BATT	BATTERY	OI	OPERATOR INTERFACE
(B)	PROVIDED BY OWNER – INSTALLED BY CONTRACTOR	OL	OVERLOAD
BFC	BELOW FINISHED CEILING	ORP	OXIDATION REDUCTION POTENTIAL
BOD	BIOCHEMICAL OXYGEN DEMAND	P	POLE
BPF	BAND PASS FILTER	PB	PUSHBUTTON
BYP	BYPASS	PBX	PULL BOX
C	CONDUIT	PDB	POWER DISTRIBUTION BLOCK
CAP	CAPACITOR	PF	POWER FACTOR
CB	CIRCUIT BREAKER	PFR	POWER FAIL RELAY
CKT	CIRCUIT	PH	HYDROGEN ION CONCENTRATION
COAX	COAXIAL CABLE	PLC	PROGRAMMABLE LOGIC CONTROLLER
COMM	COMMUNICATION	PM	POWER MONITOR
CR	CONTROL RELAY	PNL	PANEL
CT	CURRENT TRANSFORMER	POT	POTENTIOMETER
CS	CONSTANT SPEED	PRESS	PRESSURE
CU	COPPER	PR	PAIR, TWISTED AND SHIELDED
DC	DIRECT CURRENT	PRI	PRIMARY
DET	DETAIL	PROVIDE	FURNISH, INSTALL, AND CONNECT
DI	DIGITAL INPUT	PS	PRESSURE SWITCH
DISC	DISCONNECT	PT	POTENTIAL TRANSFORMER
DO	DIGITAL OUTPUT	PTT	PUSH TO TEST
DPDT	DOUBLE POLE DOUBLE THROW	PVC	POLYVINYLCHLORIDE
DWG	DRAWING	PWR	POWER
E-DTL	ELECTRICAL DRAWING DETAIL	REF	REFERENCE
ELEV	ELEVATION	RFI	RADIO FREQUENCY INTERFERENCE
ENET	ETHERNET	RMS	ROOT MEAN SQUARE
ETM	ELAPSED TIME METER	RTD	RESISTANCE TEMPERATURE DETECTOR
ESW	ETHERNET SWITCH	RST	RESET
(E)	EXISTING	RVAT	REDUCE VOLTAGE AUTO TRANSFORMER
FCS	FIELD CONTROL STATION	RTU	REMOTE TERMINAL UNIT
FLA	FULL LOAD AMPS	(R)	REWIRE, RELOCATE, REVISE, REUSE
FLEX	FLEXIBLE LIQUID TIGHT CONDUIT	SCH	SCHEDULE
FRP	FIBERGLASS REINFORCED PLASTIC	SEC	SECONDARY, SECOND
FS	FULL SPEED	SECS	SECONDS
FVNR	FULL VOLTAGE NON-REVERSING	SEL	SELECTOR
FVR	FULL VOLTAGE REVERSING	SFA	SERVICE FACTOR AMPS
FWD	FORWARD	SPEC	SPECIFICATION
(F)	FUTURE	SS	STAINLESS STEEL
GALV	GALVANIZED	SSRC	STAINLESS STEEL RIGID CONDUIT
GFI	GROUND FAULT INTERRUPTER	SSS	SOLID STATE STARTER
GND	GROUND	STT	START
GRS	GALVANIZED RIGID STEEL CONDUIT	STP	STOP
GRS-PVC	PVC COATED GRS CONDUIT	SV	SOLENOID VALVE
HI	HIGH	SW	SWITCH
HIM	HUMAN INTERFACE MODULE	SWBD	SWITCHBOARD
HOA	HAND OFF AUTO	SYMM	SYMMETRICAL
HP	HORSE POWER	TB	TERMINAL BLOCK
HPS	HIGH PRESSURE SODIUM	TC	TIME CLOCK
HS	HAND SWITCH	TDOD	TIME DELAY ON DE-ENERGIZATION
HTR	HEATER	TDOE	TIME DELAY ON ENERGIZATION
HZ	HERTZ	TELCO	TELEPHONE COMPANY
HZD	HAZARD	TM	THERMAL MAGNETIC
I	INTERLOCK	TEMP	TEMPERATURE
I-DTL	INSTRUMENTATION DRAWING DETAIL	TR	TIME DELAY RELAY
I/O	INPUT/OUTPUT	TRIAD	TWISTED AND SHIELDED 3 CONDUCTOR
INST	INSTANTANEOUS	TS	TEMPERATURE SWITCH
ISR	INTRINSICALLY SAFE RELAY	TSPR	TWISTED AND SHIELDED PAIR
IS	INTRINSICALLY SAFE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
J	JUNCTION BOX	TYP	TYPICAL
K	KILO, PREFIX	UG	UNDERGROUND
LA	LIGHTNING ARRESTOR	ULH	ULTRA LOW HARMONIC
LC	LIGHTING CONTACTOR	UON	UNLESS OTHERWISE NOTED
LEL	LOWER EXPLOSION LIMIT	UPS	UNINTERRUPTIBLE POWER SUPPLY
LO	LOW	V	VOLTAGE
LOS	LOCK OUT STOP	VA	VOLT AMPS
LR	LATCHING RELAY	VAR	VOLT AMPS REACTIVE
LS	LIMIT SWITCH	VFD	VARIABLE FREQUENCY DRIVE
M	MOTOR CONTACTOR	VLV	VALVE
MAG	MAGNETIC FLOWMETER	VM	VOLTMETER
MAX	MAXIMUM	VMR	VOLTAGE MONITOR RELAY
MCM	THOUSAND CIRCULAR MILS	VR	VOLTAGE RELAY
MCP	MOTOR CIRCUIT PROTECTOR	W	WATTS
MCS	MOLDED CASE SWITCH	WP	WEATHER PROOF, NEMA 3R
MH	MANHOLE	WTP	WATER TREATMENT PLANT
MIN	MINIMUM, MINUTE	WWTP	WASTE WATER TREATMENT PLANT
MODEM	MODEM	XFMR	TRANSFORMER
MOV	MOTOR OPERATED VALVE	Z	IMPEDANCE
		ZS	LIMIT SWITCH

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DATE: NOV 08, 2019 TIME: 10:45:09AM

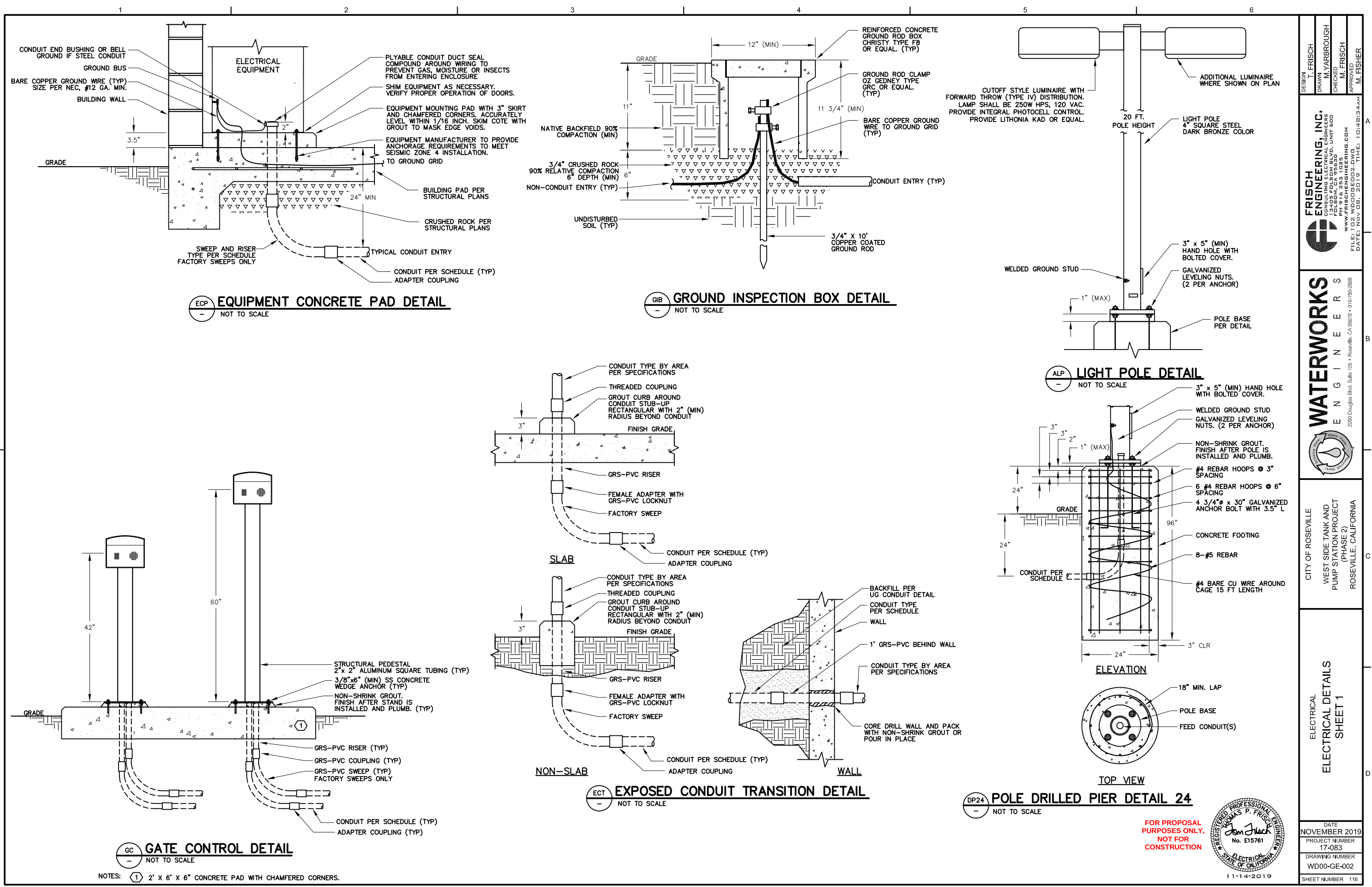
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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
SYMBOLS AND
ABBREVIATIONS

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-GE-001
SHEET NUMBER 115



DESIGN T. FRISCH	FRISCH ENGINEERING, INC. 13405 FOLESBY BLVD., UNIT 600 FOLSOM, CA 95630 WWW.FRISCHENGINEERING.COM FILE: 102 WD00 GE002.DWG DATE: NOV 08, 2019 TIME: 10:48:34 AM
DRAWN M. YARBROUGH	WATERWORKS ENGINEERS 2260 Douglas Blvd., Suite 105 • Roseville, CA 95678 • 916-790-2888
CHECKED M. FRISCH	
APPROVED M. FISHER	
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	
ELECTRICAL ELECTRICAL DETAILS SHEET 1	
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD00-GE-002 SHEET NUMBER 116	

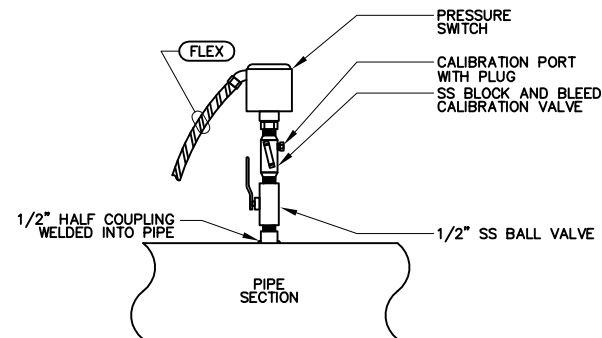


-
- Diagram illustrating the cable entry into the tank top, showing the junction box mounted on the pipe sleeve, secured cable to the box with stainless bolt and zip ties, duct seal, exposed conduit to roof devices (typ), tank hatch, tank top, and tank top transition per civil drawings.

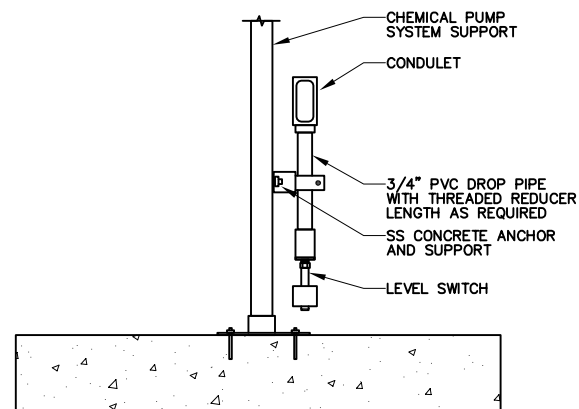
STORAGE TANK HATCH DETAIL
SECTION VIEW, NOT TO SCALE

-
- A detailed line drawing of the SS Block and Bleed Calibration Valve assembly. The assembly is mounted on a horizontal pipe section. From left to right, the components are: a 1/2" half coupling welded into the pipe, a 1/2" SS tee, a 1/2" SS ball valve, and a 1/2" SS nipple. A 1/2" SS ell connects the tee to a pressure gauge. Above the tee is a pressure transmitter labeled 'XXX' with a 'FLEX' label pointing to its cable. The transmitter is connected to an LCD display, which is further connected to a calibration port with a plug. A bleed valve is also shown on the side of the transmitter block. Labels with leader lines identify each component.
- Labels in the diagram include:
- 1/2" HALF COUPLING WELDED INTO PIPE
 - PIPE SECTION
 - 1/2" SS BALL VALVE
 - 1/2" SS TEE
 - 1/2" SS NIPPLE
 - 1/2" SS ELL
 - PRESSURE GAUGE
 - SS BLOCK AND BLEED CALIBRATION VALVE
 - CALIBRATION PORT WITH PLUG
 - LCD DISPLAY
 - PRESSURE TRANSMITTER
 - FLEX

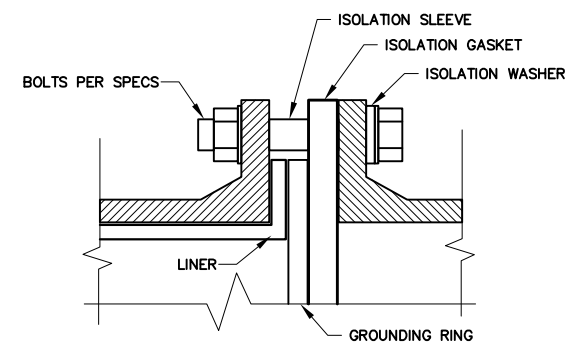
PTD PRESSURE TRANSMITTER DETAIL
- NOT TO SCALE



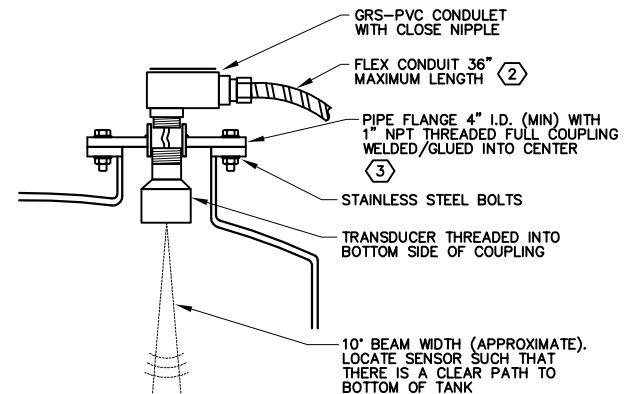
PSD PRESSURE SWITCH DETAIL
- NOT TO SCALE



CONTAINMENT LEVEL SWITCH DETAIL
NOT TO SCALE

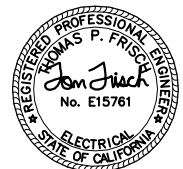


FLG FLOWMETER FLANGE ASSEMBLY
- NOT TO SCALE



ULS
- NOT TO SCALE

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11-14-2019

DESIGNED BY	T. FRISCH
DRAWN	M. YARBROUGH
CHECKED	M. FRISCH
APPROVED	M. FISHER

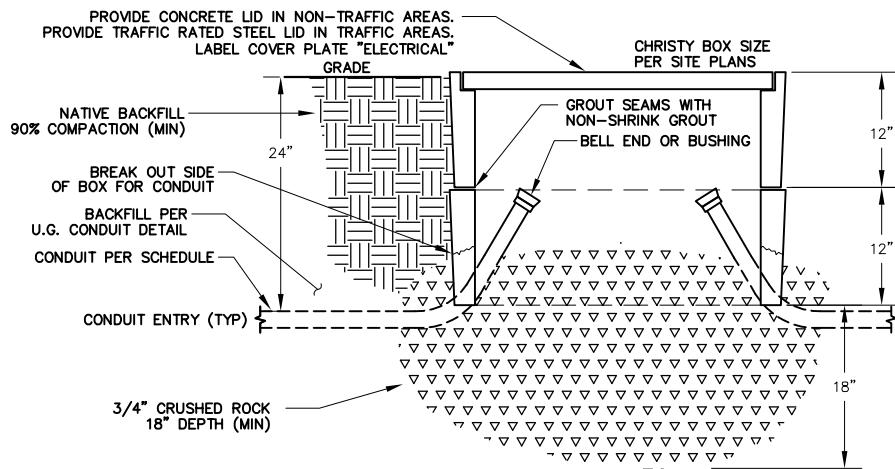
**FRISCH
ENGINEERING, INC.**
CONSULTING ELECTRICAL ENGINEERS
13405 FOLSOM BLVD, UNIT 600
FOLSOM, CA 95630
PH 916 353 1025
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FILE: 102 WD00GE003.DWG
DATE: NOV 08, 2019 TIME: 10:48:48
A

WATERWORKS
E N G I N E E R S
2260 Douglas Blvd, Suite 105 • Roseville, CA 95678 • 916-780-2888

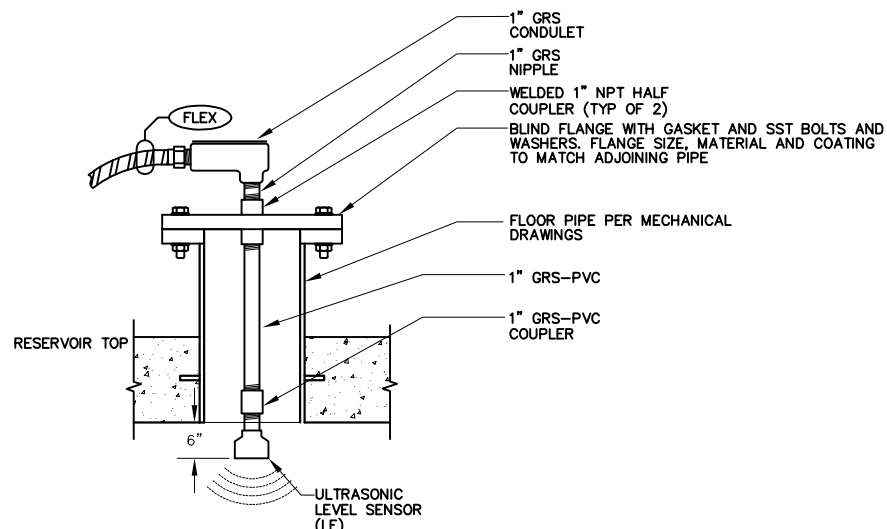
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
ELECTRICAL DETAILS
SHEET 2

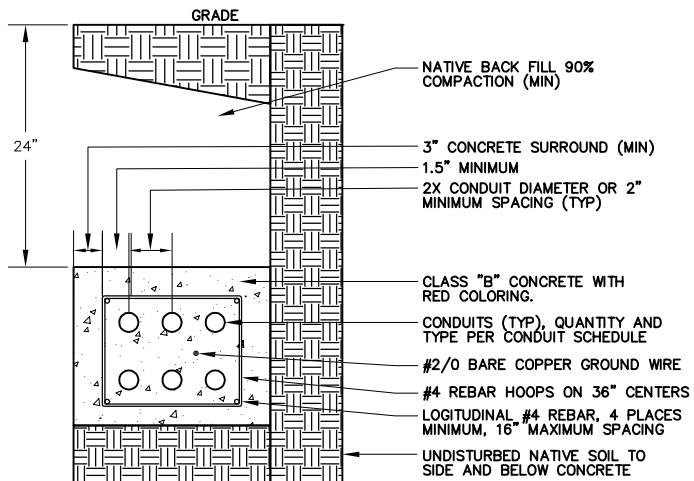
DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD00-GE-003
SHEET NUMBER	117



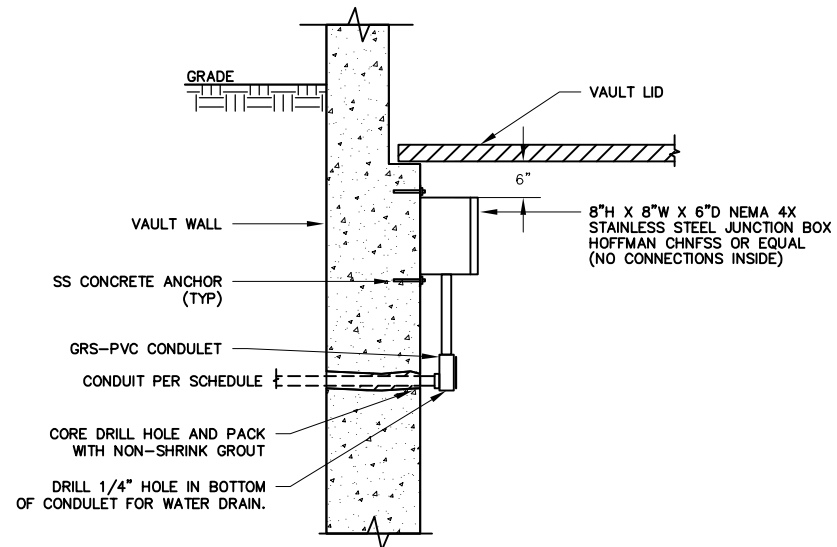
UPB UNDERGROUND PULL BOX DETAIL
NOT TO SCALE



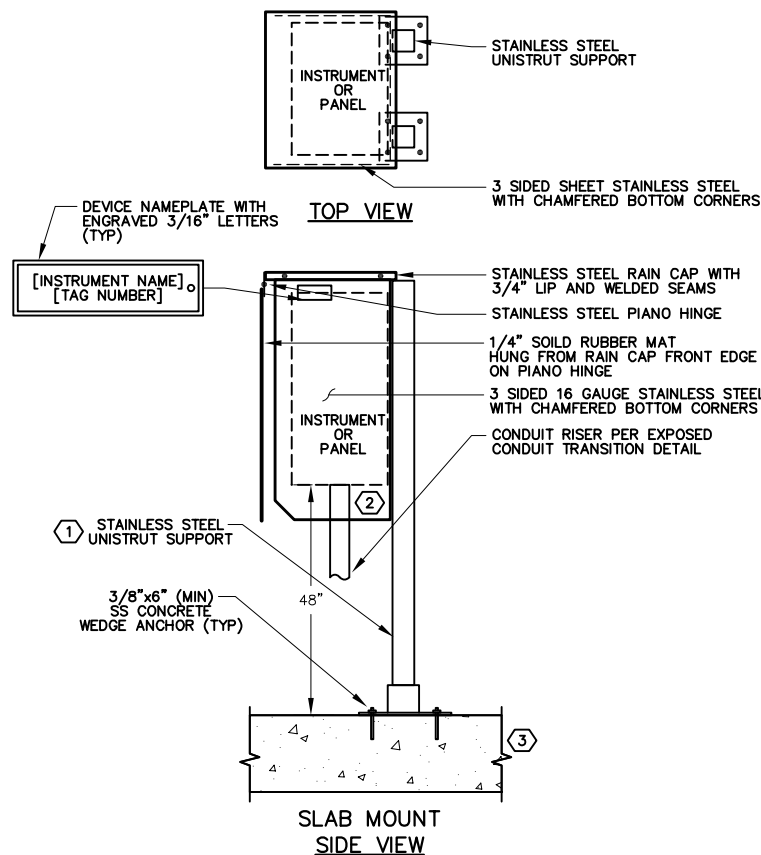
URTD ULTRASONIC RESERVOIR TRANSMITTER DETAIL
NOT TO SCALE



RCE REINFORCED CONDUIT ENCASEMENT DETAIL
NOT TO SCALE

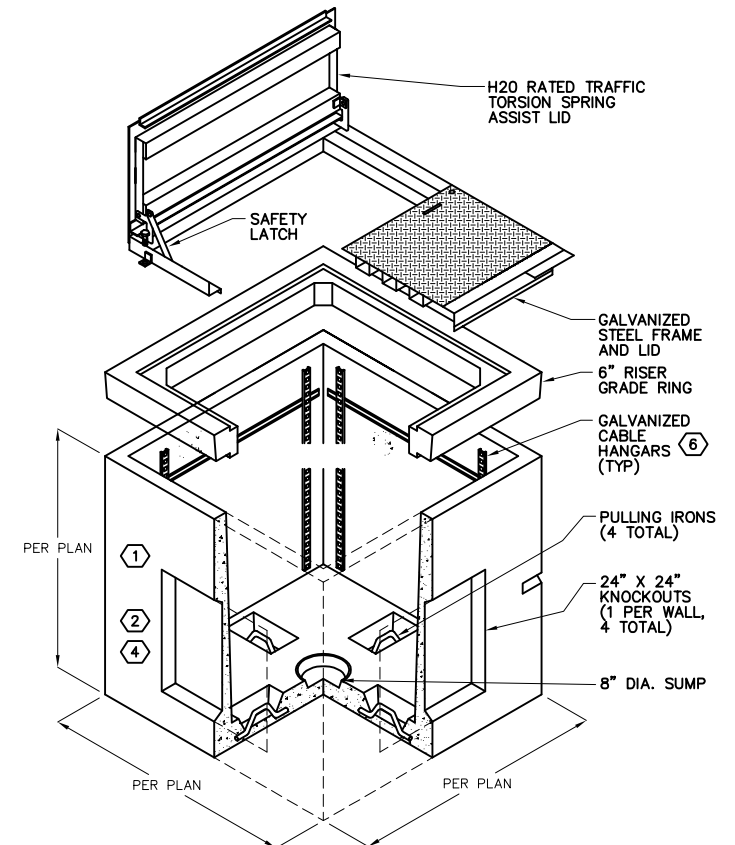


VJD VAULT JBOX DETAIL
NOT TO SCALE



ESD EQUIPMENT STANCHION DETAIL
NOT TO SCALE

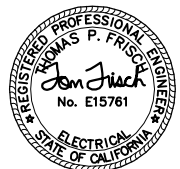
- NOTES:
- 1 ALL STAINLESS STEEL CONSTRUCTION WITH STAINLESS MACHINE HARDWARE.
 - 2 SUNSHADE SHALL BE CUSTOM SIZED FOR INSTRUMENT OR CONTROL PANEL. PROVIDE 3" SPACE AROUND ALL SIDES OF PROTECTED EQUIPMENT
 - 3 2' X 3' X 6" CONCRETE PAD (MINIMUM) WITH CHAMFERED CORNERS.
 - 4 NOTES TYPICAL FOR WALL AND RAIL MOUNT



PSV ELECTRICAL UNDERGROUND VAULT
NOT TO SCALE

- NOTES:
- 1 WIRES IN "P", "L" & "C" SERIES CONDUITS, SHALL BE SUPPORTED ON ONE SIDE OF VAULT AND WIRES FOR "A", "D" & "S" SERIES ON OTHER SIDE. ALL WIRE SHALL BE STRAPPED TO CABLE SUPPORTS.
 - 2 VAULTS SHALL BE CONSTRUCTED OF RE-INFORCED CONCRETE. PROVIDE VAULT BASE AND GRADE RING(S) AS NECESSARY TO MEET OR EXCEED REQUIRED DEPTH.
 - 3 ACCESS COVERS SHALL BE 1/4" GALVANIZED STEEL CHECKER PLATE, HINGED, 2 PIECE, BOLT DOWN, WITH SPRING ASSIST. COVERS SHALL BE H2O TRAFFIC LOAD RATED. LABEL LID "SECONDARY ELECTRICAL" OR "SIGNAL" WITH WELDED LETTERING.
 - 4 CAULK AND GROUT SEAMS AND AROUND CONDUIT ENTRIES TO SMOOTH FINISH AND PREVENT LEAKS. CONDUIT ENTRANCES SHALL BE PER ENCASED CONDUIT END DETAIL. ATTACH CONDUIT LABELS TO WALL ABOVE CONDUIT.
 - 5 OVER-EXCAVATE AND BACKFILL 18" OF 3/4" CRUSHED ROCK BELOW VAULT. BACKFILL AROUND VAULT WALLS WITH NATIVE SOIL.
 - 6 RACKS SHALL BE INSTALLED INSIDE THE MANHOLE FOR TRAINING, SUPPORTING AND ROUTING OF CONDUCTORS. RACKS SHALL BE INSTALLED TO SUPPORT CONDUCTORS AT 2 FOOT INTERVALS AND BE MADE OF HEAVY DUTY NON-METALLIC MATERIALS AS APPROPRIATE OF THE ANTICIPATED LOAD.

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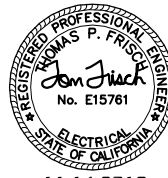


DESIGN T. FRISCH	FRISCH ENGINEERING, INC. 13405 FOLESBY BLVD., UNIT 600 FOLSOM, CA 95630 WWW.FRISCHENGINEERING.COM FILE: 103 WD00GE004.DWG DATE: NOV 08, 2019 TIME: 11:06:15AM
DRAWN M. YARBROUGH	WATERWORKS ENGINEERS 2260 Douglas Blvd. Suite 105 • Roseville, CA 95678 • 916-790-2888 CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA
CHECKED M. FRISCH	
APPROVED M. FISHER	
ELECTRICAL ELECTRICAL DETAILS SHEET 4	
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD00-GE-004 SHEET NUMBER 118	

CONDUIT & WIRE ROUTING SCHEDULE (PRELIMINARY)														
REV	CONDUIT DETAILS						POWER WIRE		CONTROL WIRE		SIGNAL WIRE		GROUND	NOTES
	TAG NO.	FROM	TO	QTY	SIZE	TYPE	QTY	SIZE	QTY	SIZE	QTY	SIZE	SIZE	
	21 - E - 150	SWITCHBOARD 2 POWER DISTRIBUTION	FUTURE PUMP 5 SSS CONTROL PANEL	1	3"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 151	SWITCHBOARD 2 POWER DISTRIBUTION	FUTURE PUMP 5 SSS CONTROL PANEL	1	3"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 152	CONTROL PANEL	FUTURE PUMP 5 SSS CONTROL PANEL	1	1"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 153	COMMUNICATIONS PANEL	FUTURE PUMP 5 SSS CONTROL PANEL	1	1"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 250	FUTURE PUMP 5 SSS CONTROL PANEL	FUTURE BOOSTER PUMP 5	1	3"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 251	FUTURE PUMP 5 SSS CONTROL PANEL	FUTURE BOOSTER PUMP 5	1	3"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 251	CONTROL PANEL	FUTURE BOOSTER PUMP 5	1	1"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 252	FUTURE PUMP 5 SSS CONTROL PANEL	FUTURE BOOSTER PUMP 5	1	1"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 401	CONTROL PANEL	FUTURE OPERATIONS CREW FACILITY	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 402	CONTROL PANEL	FUTURE OPERATIONS CREW FACILITY	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 403	COMMUNICATIONS PANEL	FUTURE OPERATIONS CREW FACILITY	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 404	CONTROL PANEL	FUTURE OPERATIONS CREW FACILITY	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 405	SWITCHBOARD 2 POWER DISTRIBUTION	FUTURE OPERATIONS CREW FACILITY	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 501	PANELBOARD "LP-A"	PBX-P02	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB AND CAP
	21 - E - 501A	PBX-P02	VALVE VAULT JBOX	1	3/4"	SPEC	-	-	-	-	-	-	-	PULL ROPE
	21 - E - 501G	PBX-C02	STUB UP TANK 1	1	3/4"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB AND CAP
	21 - E - 501H	PBX-C02	STUB UP TANK 2	1	3/4"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB AND CAP
	21 - E - 502	CONTROL PANEL	PBX-C02	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB AND CAP
	21 - E - 502A	PBX-C02	TANK 1	1	1"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB AND CAP
	21 - E - 502B	PBX-C02	TANK 2	1	1"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB AND CAP
	21 - E - 503	CONTROL PANEL	PBX-C02	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB AND CAP
	21 - E - 503A	PBX-C02	VALVE VAULT JBOX	1	3/4"	SPEC	-	-	-	-	-	-	-	PULL ROPE
	21 - E - 602	CONTROL PANEL	SAMPLE PUMP	1	3/4"	SPEC	-	-	-	-	-	-	-	PULL ROPE
	21 - E - 610	PANELBOARD "LP-A"	PBX-P03	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE
	21 - E - 610A	PBX-P03	GENERATOR	1	1"	SPEC	-	-	-	-	-	-	-	PULL ROPE
	21 - E - 614	COMMUNICATIONS PANEL	PBX-C03	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE
	21 - E - 614A	PBX-C03	LOAD BANK	1	3/4"	SPEC	-	-	-	-	-	-	-	PULL ROPE
	21 - E - 614B	PBX-C03	FUEL TANK CONTROL PANEL	1	3/4"	SPEC	-	-	-	-	-	-	-	PULL ROPE
	21 - E - 621	PANELBOARD "LP-A"	PBX-C04	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE
	21 - E - 701	PANELBOARD "LP-A"	NORTH GATE AREA	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - E - 702	CONTROL PANEL	NORTH GATE AREA	1	2"	SPEC	-	-	-	-	-	-	-	PULL ROPE, STUB OUT CAP
	21 - P - 101	PANELBOARD "LP-A"	COMMUNICATION PANEL	1	1"	SPEC	4	#12	-	-	-	-	#12	
	21 - P - 102	PANELBOARD "LP-A"	CONTROL PANEL	1	1"	SPEC	2	#12	-	-	-	-	#12	
	21 - P - 103	PANELBOARD "LP-A"	CONTROL PANEL	1	1"	SPEC	2	#12	-	-	-	-	#12	
	21 - P - 104	PANELBOARD "LP-A"	SWITCHBOARD 1	1	1"	SPEC	4	#12	-	-	-	-	#12	
	21 - P - 105	SWITCHBOARD 2 POWER DISTRIBUTION	HVAC OUTDOOR UNIT DISCONNECT	1	1 1/2"	SPEC	3	#6	-	-	-	-	#10	
	21 - P - 106	PANELBOARD "LP-A"	SECURITY PANEL	1	1"	SPEC	4	#12	-	-	-	-	#12	
	21 - P - 110	SWITCHBOARD 2 POWER DISTRIBUTION	PUMP 1 VFD CONTROL PANEL	1	3"	SPEC	3	#250	-	-	-	-	#2	
	21 - P - 111	SWITCHBOARD 2 POWER DISTRIBUTION	PUMP 1 VFD CONTROL PANEL	1	3"	SPEC	3	#250	-	-	-	-	#2	
	21 - P - 120	SWITCHBOARD 2 POWER DISTRIBUTION	PUMP 2 SSS CONTROL PANEL	1	3"	SPEC	3	#250	-	-	-	-	#2	
	21 - P - 121	SWITCHBOARD 2 POWER DISTRIBUTION	PUMP 2 SSS CONTROL PANEL	1	3"	SPEC	3	#250	-	-	-	-	#2	
	21 - P - 130	SWITCHBOARD 2 POWER DISTRIBUTION	PUMP 3 VFD CONTROL PANEL	1	3"	SPEC	3	#250	-	-	-	-	#2	
	21 - P - 131	SWITCHBOARD 2 POWER DISTRIBUTION	PUMP 3 VFD CONTROL PANEL	1	3"	SPEC	3	#250	-	-	-	-	#2	
	21 - P - 140	SWITCHBOARD 2 POWER DISTRIBUTION	PUMP 4 SSS CONTROL PANEL	1	3"	SPEC	3	#250	-	-	-	-	#2	
	21 - P - 141	SWITCHBOARD 2 POWER DISTRIBUTION	PUMP 4 SSS CONTROL PANEL	1	3"	SPEC	3	#250	-	-	-	-	#2	
	21 - P - 201	PANELBOARD "LP-A"	SCADA TERMINAL	1	3/4"	SPEC	2	#12	-	-	-	-	#12	
	21 - P - 202	PANELBOARD "LP-A"	STORAGE RESIDUAL CL2 ANALYZER	1	3/4"	SPEC	2	#12	-	-	-	-	#12	
	21 - P - 203	PANELBOARD "LP-A"	DISTRIBUTION RESIDUAL CL2 ANALYZER	1	3/4"	SPEC	2	#12	-	-	-	-	#12	

NOTES PERTAINING TO CONDUIT SCHEDULE:

- CONDUIT TYPE "SPEC" IS AS DEFINED IN SPECIFICATIONS SECTION 16110 FOR NON-EXPOSED AND EXPOSED PORTIONS OF CONDUIT RUN.
- SEE SPECIFICATIONS AND EXPOSED TRANSITION DETAIL OR EQUIPMENT SPECIFIC DETAIL FOR CONDUIT TRANSITION MATERIALS AND METHODS FROM BELOW GROUND TO EXPOSED PORTIONS OF RUN.
- CONDUITS OVER 15 FT LENGTH (EITHER EMPTY OR WITH CONDUCTORS SIZED LESS THAN #8 AWG), SHALL INCLUDE A POLY PULL STRING. STRING SHALL BE TIED OFF AT EACH END.
- FITTINGS, CONDULETS, BOXES AND COVERS SHALL MATCH DUTY OF ADJACENT PIPE, SEE SPECIFICATIONS 16110.
- WIRE SIZING IN TABLE IS BASED ON COPPER CONDUCTORS, THHN INSULATION, WITH TYPE C STRANDING. OTHER CONDUCTOR TYPES, IF ALLOWED OR REQUIRED PER SPECIFICATION, MAY REQUIRE CONDUITS TO BE UPSIZED BY CONTRACTOR AND SUBMITTED FOR APPROVAL.
- SEE GENERAL NOTES ON LIGHTING AND RECEPTACLE PLAN FOR CONDUIT REQUIREMENTS FOR ELECTRICAL DEVICES WITHOUT CONDUITS SHOWN, CONDUIT NUMBERS, OR NOT LISTED IN SCHEDULE.

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11-14-2019

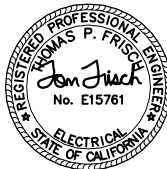
DESIGN T. FRISCH	DRAWN M. YARBROUGH	CHECKED M. FRISCH	APPROVED M. FISHER
FRISCH ENGINEERING, INC. 13405 FOLESON BLVD., UNIT 600 FOLSOM, CA 95630 WWW.FRISCHENGINEERING.COM FILE: 103 WD00GE005.DWG DATE: NOV 08, 2019 TIME: 11:34:50AM			
WATERWORKS ENGINEERS 2260 Douglas Blvd., Suite 105 • Roseville, CA 95678 • 916-790-2688			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
ELECTRICAL CONDUIT AND WIRE ROUTING SCHEDULE (PRELIMINARY)			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-GE-005			
SHEET NUMBER 119			

CONDUIT & WIRE ROUTING SCHEDULE (PRELIMINARY)														
REV	CONDUIT DETAILS							POWER WIRE		CONTROL WIRE		SIGNAL WIRE		NOTES
	TAG NO.	FROM	TO	QTY	SIZE	TYPE		QTY	SIZE	QTY	SIZE	QTY	SIZE	
	21 – P – 210	PUMP 1 VFD CONTROL PANEL	BOOSTER PUMP 1	1	3"	SPEC		3	#250	–	–	–	–	#2
	21 – P – 211	PUMP 1 VFD CONTROL PANEL	BOOSTER PUMP 1	1	3"	SPEC		3	#250	–	–	–	–	#2
	21 – P – 220	PUMP 2 SSS CONTROL PANEL	BOOSTER PUMP 2	1	3"	SPEC		3	#250	–	–	–	–	#2
	21 – P – 221	PUMP 2 SSS CONTROL PANEL	BOOSTER PUMP 2	1	3"	SPEC		3	#250	–	–	–	–	#2
	21 – P – 230	PUMP 3 VFD CONTROL PANEL	BOOSTER PUMP 3	1	3"	SPEC		3	#250	–	–	–	–	#2
	21 – P – 231	PUMP 3 VFD CONTROL PANEL	BOOSTER PUMP 3	1	3"	SPEC		3	#250	–	–	–	–	#2
	21 – P – 240	PUMP 4 SSS CONTROL PANEL	BOOSTER PUMP 4	1	3"	SPEC		3	#250	–	–	–	–	#2
	21 – P – 241	PUMP 4 SSS CONTROL PANEL	BOOSTER PUMP 4	1	3"	SPEC		3	#250	–	–	–	–	#2
	21 – P – 302	PANELBOARD "LP-A"	SODIUM HYPO PUMP 1 VFD	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 303	PANELBOARD "LP-A"	SODIUM HYPO PUMP 2 VFD	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 304	SWITCHBOARD 2 POWER DISTRIBUTION	WATER HEATER	1	3"	SPEC		3	#3/0	–	–	–	–	#6
	21 – P – 501	PANELBOARD "LP-A"	PBX-P02	1	2"	SPEC		6	#12	–	–	–	–	#12
	21 – P – 501A	PBX-P02	VALVE VAULT AREA LIGHT POLE	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 501B	PBX-P02	VALVE VAULT RECEPTACLE	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 501C	PBX-P02	TANK AREA LIGHT POLE	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 502	PANELBOARD "LP-A"	PBX-P02	1	2"	SPEC		4	#12	–	–	–	–	#12
	21 – P – 502A	PBX-P02	TANK 1 DAVIT CRANE RECEPTACLE	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 502B	PBX-P02	TANK 2 DAVIT CRANE RECEPTACLE	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 601	PANELBOARD "LP-A"	SAMPLE PUMP	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 601A~H	UTILITY TRANSFORMER	SWITCHBOARD 1 METER/MAIN	8	4"	SPEC		3	#500	–	–	–	–	#350
	21 – P – 602A~B	UTILITY UG VAULT	UTILITY TRANSFORMER	2	5"	SPEC		–	–	–	–	–	–	–
	21 – P – 603A~H	AUTOMATIC TRANSFER SWITCH	SWITCHBOARD 2 ATS TRANSITION	8	4"	SPEC		3	#500	–	–	–	–	#350
	21 – P – 610	PANELBOARD "LP-A"	PBX-P03	1	2"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 610A	PBX-P03	GENERATOR	1	2"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 611	PANELBOARD "LP-A"	PBX-P03	1	2"	SPEC		4	#12	–	–	–	–	#12
	21 – P – 611A	PBX-P03	GENERATOR	1	2"	SPEC		4	#12	–	–	–	–	#12
	21 – P – 612A~H	SWITCHBOARD 1 GENERATOR BREAKER	GENERATOR	8	4"	SPEC		3	#500	–	–	–	–	#350
	21 – P – 613	PANELBOARD "LP-A"	FUEL TANK CONTROL PANEL	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 614	PANELBOARD "LP-A"	LOAD BANK	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 615A~H	GENERATOR	LOAD BANK	8	4"	SPEC		3	#500	–	–	–	–	#350
	21 – P – 616	SWITCHBOARD 2 POWER DISTRIBUTION	EVAP COOLER DISCONNECT	1	1 1/2"	SPEC		3	#6	–	–	–	–	#10
	21 – P – 617	SWITCHBOARD 2 POWER DISTRIBUTION	EVAP COOLER TRANSFORMER	1	3/4"	SPEC		3	#12	–	–	–	–	#12
	21 – P – 620	GENERATOR	FUEL TANK	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 631	PANELBOARD "LP-A"	PBX-P03	1	2"	SPEC		6	#12	–	–	–	–	#12
	21 – P – 631A	PBX-P03	GENERATOR AREA LIGHT	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 631B	PBX-P03	PBX-P05	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 631C	PBX-P05	EAST GATE AREA SITE LIGHT	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 631D	PBX-P05	AREA SITE LIGHT	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 632	PANELBOARD "LP-A"	PBX-P05	1	2"	SPEC		2	#10	–	–	–	–	#12
	21 – P – 632A	PBX-P05	EAST GATE SLIDE GATE OPERATOR	1	1"	SPEC		2	#10	–	–	–	–	#12
	21 – P – 701	PANELBOARD "LP-A"	NORTH GATE AREA LIGHT	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 702	PANELBOARD "LP-A"	PARKING AREA LIGHT 1	1	3/4"	SPEC		4	#12	–	–	–	–	#12
	21 – P – 702A	PARKING AREA LIGHT 1	PARKING AREA LIGHT 2	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 750A	PBX-C01	CAMERA 751	1	3/4"	SPEC		2	#12	–	–	–	–	#12
	21 – P – 750B	PBX-C01	CAMERA 752	1	3/4"	SPEC		2	#12	–	–	–	–	#12

NOTES PERTAINING TO CONDUIT SCHEDULE:

1. CONDUIT TYPE "SPEC" IS AS DEFINED IN SPECIFICATIONS SECTION 16110 FOR NON-EXPOSED AND EXPOSED PORTIONS OF CONDUIT RUN.
2. SEE SPECIFICATIONS AND EXPOSED TRANSITION DETAIL OR EQUIPMENT SPECIFIC DETAIL FOR CONDUIT TRANSITION MATERIALS AND METHODS FROM BELOW GROUND TO EXPOSED PORTIONS OF RUN.
3. CONDUITS OVER 15 FT LENGTH (EITHER EMPTY OR WITH CONDUCTORS SIZED LESS THAN #8 AWG), SHALL INCLUDE A POLY PULL STRING. STRING SHALL BE TIED OFF AT EACH END.
4. FITTINGS, CONDULETS, BOXES AND COVERS SHALL MATCH DUTY OF ADJACENT PIPE, SEE SPECIFICATIONS 16110.
5. WIRE SIZING IN TABLE IS BASED ON COPPER CONDUCTORS, THHN INSULATION, WITH TYPE C STRANDING. OTHER CONDUCTOR TYPES, IF ALLOWED OR REQUIRED PER SPECIFICATION, MAY REQUIRE CONDUITS TO BE UPSIZED BY CONTRACTOR AND SUBMITTED FOR APPROVAL.
6. SEE GENERAL NOTES ON LIGHTING AND RECEPTACLE PLAN FOR CONDUIT REQUIREMENTS FOR ELECTRICAL DEVICES WITHOUT CONDUITS SHOWN, CONDUIT NUMBERS, OR NOT LISTED IN SCHEDULE.

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11-14-2019

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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
CONDUIT AND WIRE ROUTING
SCHEDULE (PRELIMINARY)

DATE
NOVEMBER 2019

PROJECT NUMBER
17-083

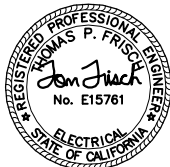
DRAWING NUMBER
WD00-GE-006

SHEET NUMBER 120

CONDUIT & WIRE ROUTING SCHEDULE (PRELIMINARY)														
REV	CONDUIT DETAILS						POWER WIRE		CONTROL WIRE		SIGNAL WIRE		GROUND	NOTES
	TAG NO.	FROM	TO	QTY	SIZE	TYPE	QTY	SIZE	QTY	SIZE	QTY	SIZE	SIZE	
	21 - S - 101	CONTROL PANEL	COMMUNICATION PANEL	1	1"	SPEC	-	-	-	-	3	CAT 6e	#12	
	21 - S - 102	SWITCHBOARD 1	COMMUNICATION PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	#12	
	21 - S - 103	SWITCHBOARD 2 ATS	COMMUNICATION PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	#12	
	21 - S - 104	CONTROL PANEL	SWITCHBOARD 2 ATS	1	3/4"	SPEC	-	-	8	#14	-	-	#14	
	21 - S - 105	CONTROL PANEL	HVAC OUTDOOR UNIT	1	1"	SPEC	-	-	-	-	1	#16 TSPR	-	
	21 - S - 106	CONTROL PANEL	SECURITY PANEL	1	2"	SPEC	-	-	6	#14	-	-	#14	
	21 - S - 110	CONTROL PANEL	PUMP 1 VFD CONTROL PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 111	COMMUNICATIONS PANEL	PUMP 1 VFD CONTROL PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 120	CONTROL PANEL	PUMP 2 SSS CONTROL PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 121	COMMUNICATIONS PANEL	PUMP 2 SSS CONTROL PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 130	CONTROL PANEL	PUMP 3 VFD CONTROL PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 131	COMMUNICATIONS PANEL	PUMP 3 VFD CONTROL PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 140	CONTROL PANEL	PUMP 4 SSS CONTROL PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 141	COMMUNICATIONS PANEL	PUMP 4 SSS CONTROL PANEL	1	1"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 181	CONTROL PANEL	ELECTRICAL ROOM TEMP TRANSMITTER	1	3/4"	SPEC	-	-	-	-	1	#16 TSPR	-	#TIT-*783
	21 - S - 182	CONTROL PANEL	OUTDOOR TEMP TRANSMITTER	1	3/4"	SPEC	-	-	-	-	1	#16 TSPR	-	#TIT-*781
	21 - S - 182A	CONTROL PANEL	PUMP ROOM MAN DOOR INTRUSION JBOX	1	3/4"	SPEC	-	-	-	-	1	#16 TSPR	-	#TIT-*791
	21 - S - 192	CONTROL PANEL	PUMP ROOM MAN TEMP TRANSMITTER	1	3/4"	SPEC	-	-	-	-	1	#16 TSPR	-	#TIT-*782
	21 - S - 193	CONTROL PANEL	PUMP ROOM MAN DOOR INTRUSION JBOX	1	3/4"	SPEC	-	-	6	#14	-	-	#14	#ZSB-*793
	21 - S - 194	CONTROL PANEL	ELECTRICAL ROOM SMOKE DETECTOR JBOX	1	3/4"	SPEC	-	-	6	#14	-	-	#14	#SS-*98C
	21 - S - 194A	ELECTRICAL ROOM SMOKE DETECTOR JBOX	PUMP ROOM SMOKE DETECTOR JBOX	1	3/4"	SPEC	-	-	4	#14	-	-	#14	#SS-*98B
	21 - S - 194B	PUMP ROOM SMOKE DETECTOR JBOX	PUMP ROOM SMOKE DETECTOR JBOX	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#SS-*98A
	21 - S - 195	CONTROL PANEL	ELECTRICAL ROOM MAN DOOR INTRUSION JBOX	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#ZSA-*793
	21 - S - 201	CONTROL PANEL	SCADA TERMINAL	1	1"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 202	CONTROL PANEL	STORAGE RESIDUAL CL2 ANALYZER	1	1"	SPEC	-	-	-	-	1	#16 TSPR	#14	~AIT-*081
	21 - S - 203	CONTROL PANEL	DISTRIBUTION RESIDUAL CL2 ANALYZER	1	1"	SPEC	-	-	-	-	1	#16 TSPR	#14	~AIT-*082
	21 - S - 205	CONTROL PANEL	DISCHARGE PRESSURE TRANSMITTER	1	1"	SPEC	-	-	-	-	1	#16 TSPR	#14	#PIT-*063
	21 - S - 206	CONTROL PANEL	PRESSURE SUSTATING VALVE	1	1"	SPEC	-	-	2	#14	1	#16 TSPR	#14	
	21 - S - 207	CONTROL PANEL	DISTRIBUTION FLOWMETER	1	1"	SPEC	-	-	-	-	1	#16 TSPR	#14	#FIT-*071
	21 - S - 210	PUMP 1 VFD CONTROL PANEL	BOOSTER PUMP 1	1	3/4"	SPEC	-	-	4	#14	-	-	#14	
	21 - S - 211	CONTROL PANEL	BOOSTER PUMP 1 JBOX	1	1"	SPEC	-	-	4	#14	1	#16 TSPR	#14	#ZSO-*100, #PSH-*161, #VIT-*100
	21 - S - 220	PUMP 2 SSS CONTROL PANEL	BOOSTER PUMP 2	1	3/4"	SPEC	-	-	4	#14	-	-	#14	
	21 - S - 221	CONTROL PANEL	BOOSTER PUMP 2 JBOX	1	1"	SPEC	-	-	4	#14	1	#16 TSPR	#14	#ZSO-*200, #PSH-*261, #VIT-*200
	21 - S - 230	PUMP 3 VFD CONTROL PANEL	BOOSTER PUMP 3	1	3/4"	SPEC	-	-	4	#14	-	-	#14	
	21 - S - 231	CONTROL PANEL	BOOSTER PUMP 3 JBOX	1	1"	SPEC	-	-	4	#14	1	#16 TSPR	#14	#ZSO-*300, #PSH-*361, #VIT-*300
	21 - S - 240	PUMP 4 SSS CONTROL PANEL	BOOSTER PUMP 4	1	3/4"	SPEC	-	-	4	#14	-	-	#14	
	21 - S - 241	CONTROL PANEL	BOOSTER PUMP 4 JBOX	1	1"	SPEC	-	-	4	#14	1	#16 TSPR	#14	#ZSO-*400, #PSH-*461, #VIT-*400
	21 - S - 293	PUMP ROOM MAN DOOR INTRUSION JBOX	CL2 ROOM MAN DOOR INTRUSION JBOX	1	3/4"	SPEC	-	-	4	#14	-	-	#14	#ZSC-*793
	21 - S - 293A	CL2 ROOM MAN DOOR INTRUSION JBOX	PUMP ROOM ROLLUP DOOR INTRUSION JBOX	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#ZSD-*793
	21 - S - 301	CONTROL PANEL	SODIUM HYPO LEVEL TRANSMITTER	1	1"	SPEC	-	-	-	-	1	#16 TSPR	-	#LIT-*151
	21 - S - 302	CONTROL PANEL	SODIUM HYPO PUMP 1 VFD	1	1 1/2"	SPEC	-	-	6	#14	3	#16 TSPR	#14	#FIT-*171
	21 - S - 303	CONTROL PANEL	SODIUM HYPO PUMP 2 VFD	1	1 1/2"	SPEC	-	-	6	#14	3	#16 TSPR	#14	#FIT-*271
	21 - S - 304	CONTROL PANEL	CONTAINMENT LEVEL SWITCH	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#LSH-*151
	21 - S - 305	CONTROL PANEL	EYE WASH FLOW SWITCH	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#EWSS-*171

NOTES PERTAINING TO CONDUIT SCHEDULE:

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- FITTINGS, CONDULETS, BOXES AND COVERS SHALL MATCH DUTY OF ADJACENT PIPE, SEE SPECIFICATIONS 16110.
- WIRE SIZING IN TABLE IS BASED ON COPPER CONDUCTORS, THHN INSULATION, WITH TYPE C STRANDING. OTHER CONDUCTOR TYPES, IF ALLOWED OR REQUIRED PER SPECIFICATION, MAY REQUIRE CONDUITS TO BE UPSIZED BY CONTRACTOR AND SUBMITTED FOR APPROVAL.
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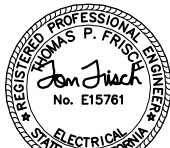
DESIGN T. FRISCH	DRAWN M. YARBROUGH	CHECKED M. FRISCH	APPROVED M. FISHER
FRISCH ENGINEERING, INC. 13405 FOLESON BLVD., UNIT 600 FOLSOM, CA 95630 WWW.FRISCHENGINEERING.COM FILE: 103 WD00GE007.DWG DATE: NOV 08, 2019 TIME: 11:32:47AM			
WATERWORKS ENGINEERS 2260 Douglas Blvd. Suite 105 • Roseville, CA 95678 • 916-790-2688			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
ELECTRICAL CONDUIT AND WIRE ROUTING SCHEDULE (PRELIMINARY)			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-GE-007			
SHEET NUMBER 121			

CONDUIT & WIRE ROUTING SCHEDULE (PRELIMINARY)														
REV	CONDUIT DETAILS						POWER WIRE		CONTROL WIRE		SIGNAL WIRE		GROUND	NOTES
	TAG NO.	FROM	TO	QTY	SIZE	TYPE	QTY	SIZE	QTY	SIZE	QTY	SIZE	SIZE	
	21 - S - 501	CONTROL PANEL	PBX-C02	1	2"	SPEC	-	-	12	#14	6	#16 TSPR	#14	
	21 - S - 501A	PBX-C02	TANK 1 LADDER INTRUSION SWITCH	1	3/4"	SPEC	-	-	2	#14	-	-	-	#ZS-*191
	21 - S - 501B	PBX-C02	TANK 1 HATCH 1 JBOX	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#ZSA-*192
	21 - S - 501C	TANK 1 HATCH 1 JBOX	TANK 1 HATCH 2 INTRUSION SWITCH	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#ZSB-*192
	21 - S - 501D	PBX-C02	TANK 2 LADDER INTRUSION SWITCH	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#ZS-*291
	21 - S - 501E	PBX-C02	TANK 2 HATCH 1 JBOX	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#ZSA-*292, #LSH-*251, #LSL-*251
	21 - S - 501F	TANK 2 HATCH 1 JBOX	TANK 2 HATCH 2 INTRUSION SWITCH	1	3/4"	SPEC	-	-	2	#14	-	-	#14	#ZSB-*292
	21 - S - 501J	PBX-C02	TANK 1 LEVEL TRANSMITTER	1	3/4"	SPEC	-	-	-	-	1	#16 TSPR	-	#LIT-*152
	21 - S - 501K	PBX-C02	TANK 2 LEVEL TRANSMITTER	1	3/4"	SPEC	-	-	-	-	1	#16 TSPR	-	#LIT-*252
	21 - S - 550	SECURITY PANEL	PBX-C02	1	2"	SPEC	-	-	-	-	3	CAT 6E	-	
	21 - S - 550A	PBX-C02	CAMERA 551	1	3/4"	SPEC	-	-	-	-	1	CAT 6E	-	
	21 - S - 550B	PBX-C02	CAMERA 552	1	3/4"	SPEC	-	-	-	-	1	CAT 6E	-	
	21 - S - 550C	PBX-C02	CAMERA 553	1	3/4"	SPEC	-	-	-	-	1	CAT 6E	-	
	21 - S - 610	COMMUNICATIONS PANEL	PBX-C03	1	2"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 610A	PBX-C03	GENERATOR	1	3/4"	SPEC	-	-	-	-	1	CAT 6e	-	
	21 - S - 611	CONTROL PANEL	PBX-C03	1	2"	SPEC	-	-	4	#14	-	-	#14	
	21 - S - 611A	PBX-C03	GENERATOR	1	3/4"	SPEC	-	-	4	#14	-	-	#14	
	21 - S - 612	SWITCHBOARD 2 ATS	PBX-C03	1	2"	SPEC	-	-	2	#14	-	-	#14	
	21 - S - 612A	PBX-C03	GENERATOR	1	3/4"	SPEC	-	-	2	#14	-	-	#14	
	21 - S - 613	CONTROL PANEL	FUEL TANK CONTROL PANEL	1	3/4"	SPEC	-	-	6	#14	1	#16 TSPR	#14	
	21 - S - 614	CONTROL PANEL	LOAD BANK	1	2"	SPEC	-	-	4	#14	1	CAT 6e	#14	
	21 - S - 615	GENERATOR	LOAD BANK	1	3/4"	SPEC	-	-	4	#14	-	-	#14	
	21 - S - 621	CONTROL PANEL	PBX-C04	1	2"	SPEC	-	-	-	-	2	#16 TSPR	-	
	21 - S - 621A	PBX-C04	HYDRO TANK PRESSURE TRANSMITTER	1	3/4"	SPEC	-	-	-	-	1	#16 TSPR	-	~PIT-*161
	21 - S - 621B	PBX-C04	HYDRO TANK LEVEL TRANSMITTER	1	3/4"	SPEC	-	-	-	-	1	#16 TSPR	-	~LIT-*153
	21 - S - 631	CONTROL PANEL	PBX-C05	1	2"	SPEC	-	-	20	#14	-	-	#14	
	21 - S - 631A	PBX-C05	EAST GATE SLIDE GATE OPERATOR	1	3/4"	SPEC	-	-	8	#14	-	-	#14	
	21 - S - 631B	PBX-C05	GATE ACCESS STATION 1	1	3/4"	SPEC	-	-	6	#14	-	-	#14	
	21 - S - 631C	PBX-C05	GATE ACCESS STATION 2	1	3/4"	SPEC	-	-	6	#14	-	-	#14	
	21 - S - 632	COMMUNICATIONS PANEL	PBX-C05	1	2"	SPEC	-	-	-	-	2	CAT 6E	-	
	21 - S - 632A	PBX-C05	GATE ACCESS STATION 1	1	3/4"	SPEC	-	-	-	-	1	CAT 6E	-	
	21 - S - 632B	PBX-C05	GATE ACCESS STATION 2	1	3/4"	SPEC	-	-	-	-	1	CAT 6E	-	
	21 - S - 650	SECURITY PANEL	PBX-C03	1	2"	SPEC	-	-	-	-	2	CAT 6E	-	
	21 - S - 650A	PBX-C03	CAMERA 651	1	3/4"	SPEC	-	-	-	-	1	CAT 6E	-	
	21 - S - 650B	PBX-C03	CAMERA 652	1	3/4"	SPEC	-	-	-	-	1	CAT 6E	-	
	21 - S - 750	SECURITY PANEL	PBX-C01	1	2"	SPEC	-	-	-	-	2	CAT 6E	-	
	21 - S - 750A	PBX-C01	CAMERA 751	1	3/4"	SPEC	-	-	-	-	1	CAT 6E	-	
	21 - S - 750B	PBX-C01	CAMERA 752	1	3/4"	SPEC	-	-	-	-	1	CAT 6E	-	

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DATE: NOV 08, 2019 TIME: 5:05:25PM

WATERWORKS
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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
CONDUIT AND WIRE ROUTING
SCHEDULE (PRELIMINARY)

DATE
NOVEMBER 2019

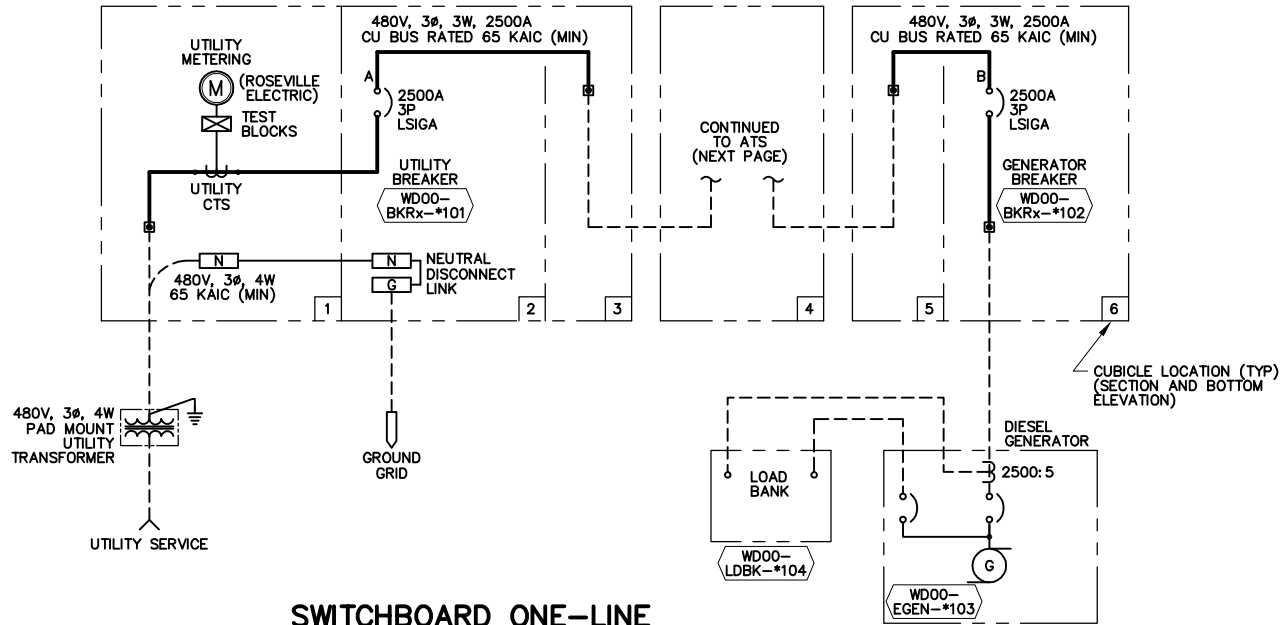
PROJECT NUMBER
17-083

DRAWING NUMBER
WD00-GE-008

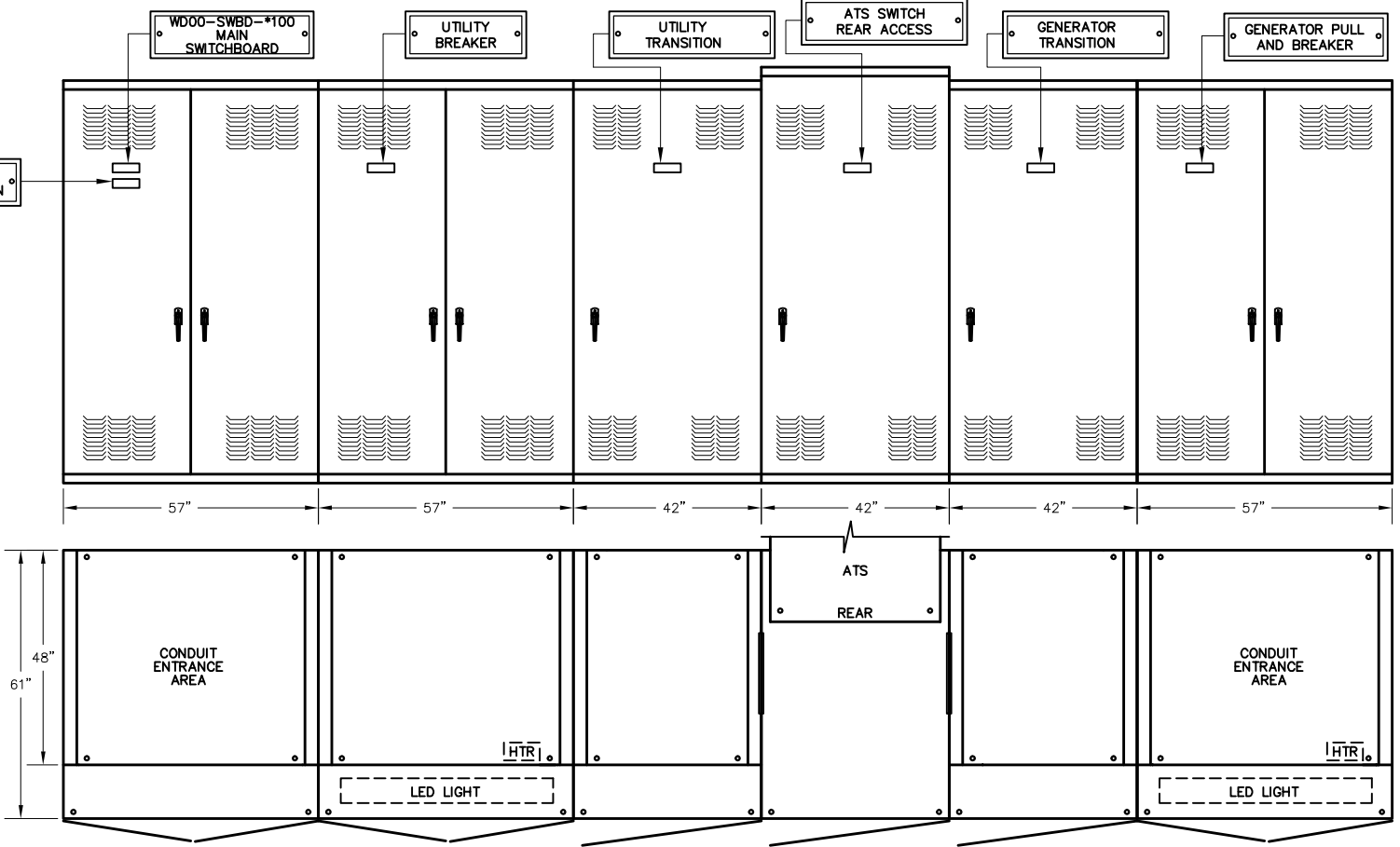
SHEET NUMBER 122

GENERAL NOTES:

- EACH BREAKER SHALL HAVE A PADLOCKABLE HASP TO LOCK BREAKER IN THE OFF POSITION.
- ALL DIMENSIONS ARE APPROXIMATE. ACTUAL DIMENSIONS SHALL BE PER MANUFACTURER APPROVED IN SUBMITTAL.
- FURNISH AND APPLY ENGRAVED WHITE LETTERING ON BLACK PLASTIC NAMEPLATES FOR DEVICES AND BREAKERS WHERE NOTED, ON EXTERIOR DOORS AT MINIMUM, WITH A LETTERED BOX. TEXT HEIGHT SHALL BE 1/4 INCH MINIMUM. REFERENCE ONE-LINE DIAGRAM FOR LABEL.
- FURNISH CODE REQUIRED WARNING LABELS AND EQUIPMENT RATINGS LABELS.
- SEE TAGGING CONVENTIONS ON P&IDs TO COMPLETE EQUIPMENT TAG NUMBERS.

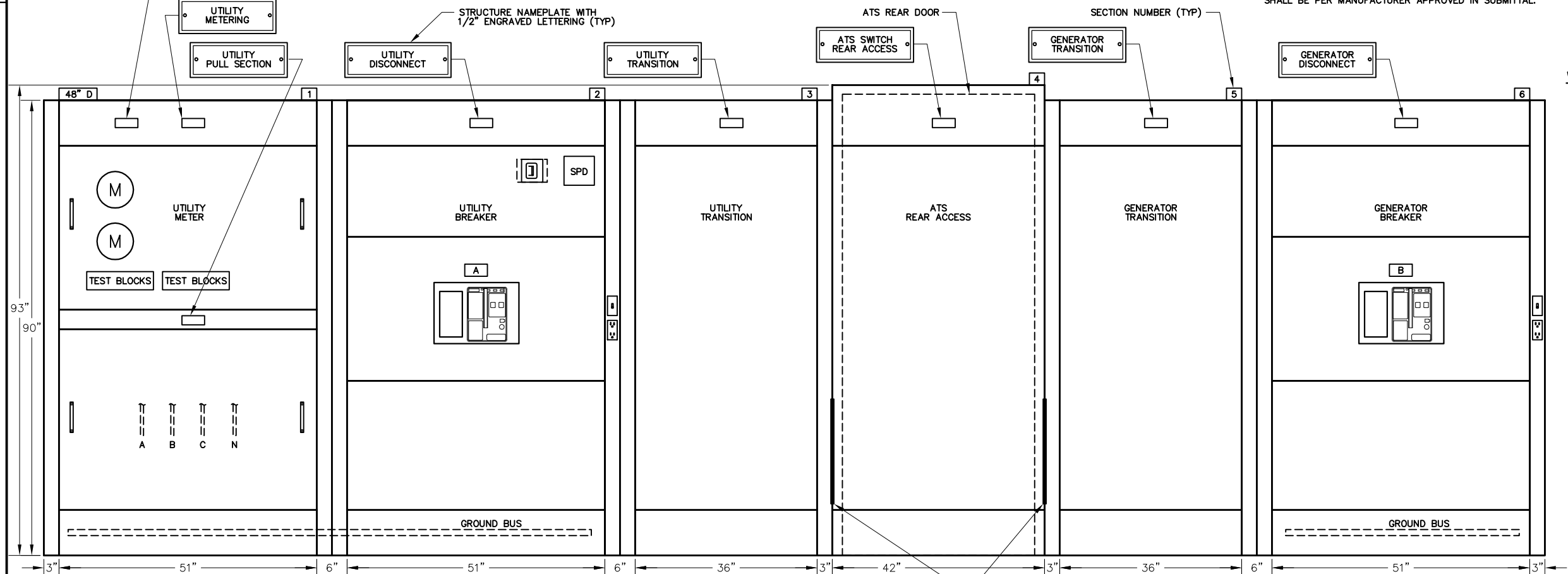


SWITCHBOARD ONE-LINE



METER/MAIN WEATHERWRAP

- ALL DIMENSIONS ARE APPROXIMATE. ACTUAL DIMENSIONS SHALL BE PER MANUFACTURER APPROVED IN SUBMITTAL.

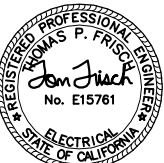


SWITCHBOARD ELEVATION
OUTDOOR, NEMA 3R

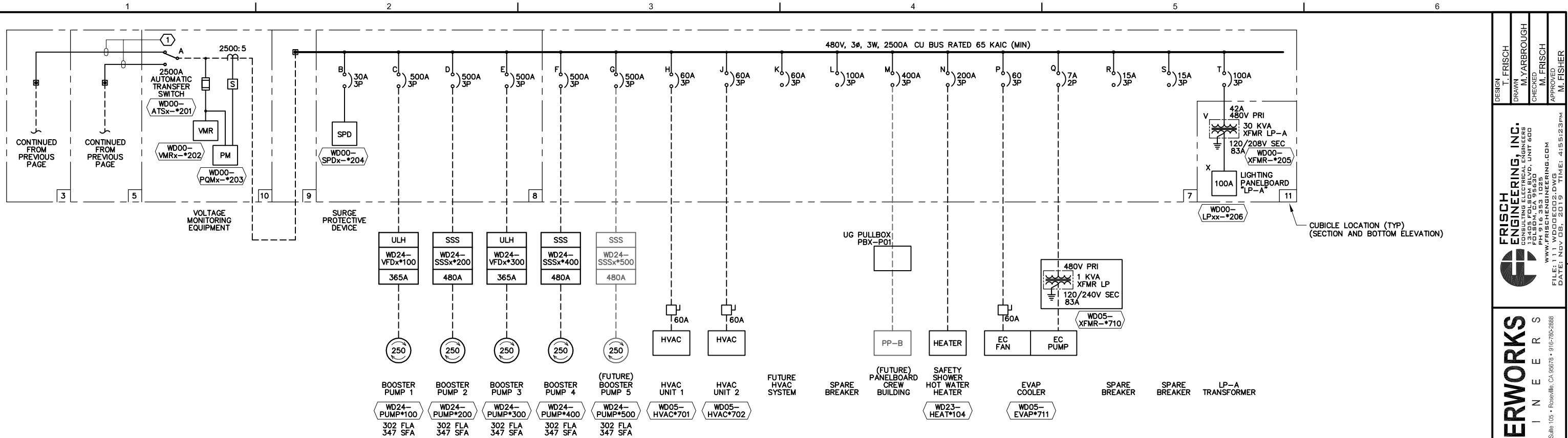
WEATHERWRAP FABRICATION METHODS

- NEMA 3R WEATHER-PROOF FOR OUTDOOR INSTALLATION.
- OUTER DOORS SHALL BE SEALED WITH RUBBERIZED FOAM GASKET.
- EXTERIOR FABRICATED FROM GALVANEAL (PAINT BOND) SHEET STEEL.
- 12 GAUGE EXTERIOR AND 14 GAUGE INTERIOR.
- ALL SEAMS SHALL HAVE CONTINUOUS WELD, GROUND SMOOTH.
- OUTER DOORS TO BE PADLOCKABLE WITH HEAVY DUTY 3 POINT LATCHES.
- DOOR HINGES AND PINS SHALL BE 316 STAINLESS STEEL.
- NO SCREWS, RIVETS, OR BOLTS SHALL PROTRUDE EXTERNALLY.
- INTERNAL SCREWS, RIVETS, BOLTS, AND NUTS SHALL BE STAINLESS STEEL.
- PAINT APPLICATION SHALL BE AS FOLLOWS:
A. TWO STAGE CHEMICAL BATH CLEANING.
B. ELECTROSTATICALLY APPLIED POWDER COAT PAINT FINISH.
C. OVEN CURED FOR TWO HOURS.
D. EXTERIOR COLOR SHALL BE: HOSPITAL WHITE.
- PHENOLIC SCREW MOUNTED NAMEPLATES SHALL BE PROVIDED FOR ALL OUTER DOOR SECTIONS.
- FABRICATION, COMPONENTS, AND WIRING SHALL CONFORM TO UL, NEC AND NEMA STANDARDS. PANEL SHALL BE APPROPRIATELY LABELLED.
- ALL WIRING SHALL BE LABELLED ON BOTH ENDS OF WIRE.
- AS-BUILT WIRING DIAGRAMS SHALL BE SHIPPED WITH PANEL.
- PROVIDE DRAWING POCKET ON INSIDE OF CONTROL PANEL DOOR.

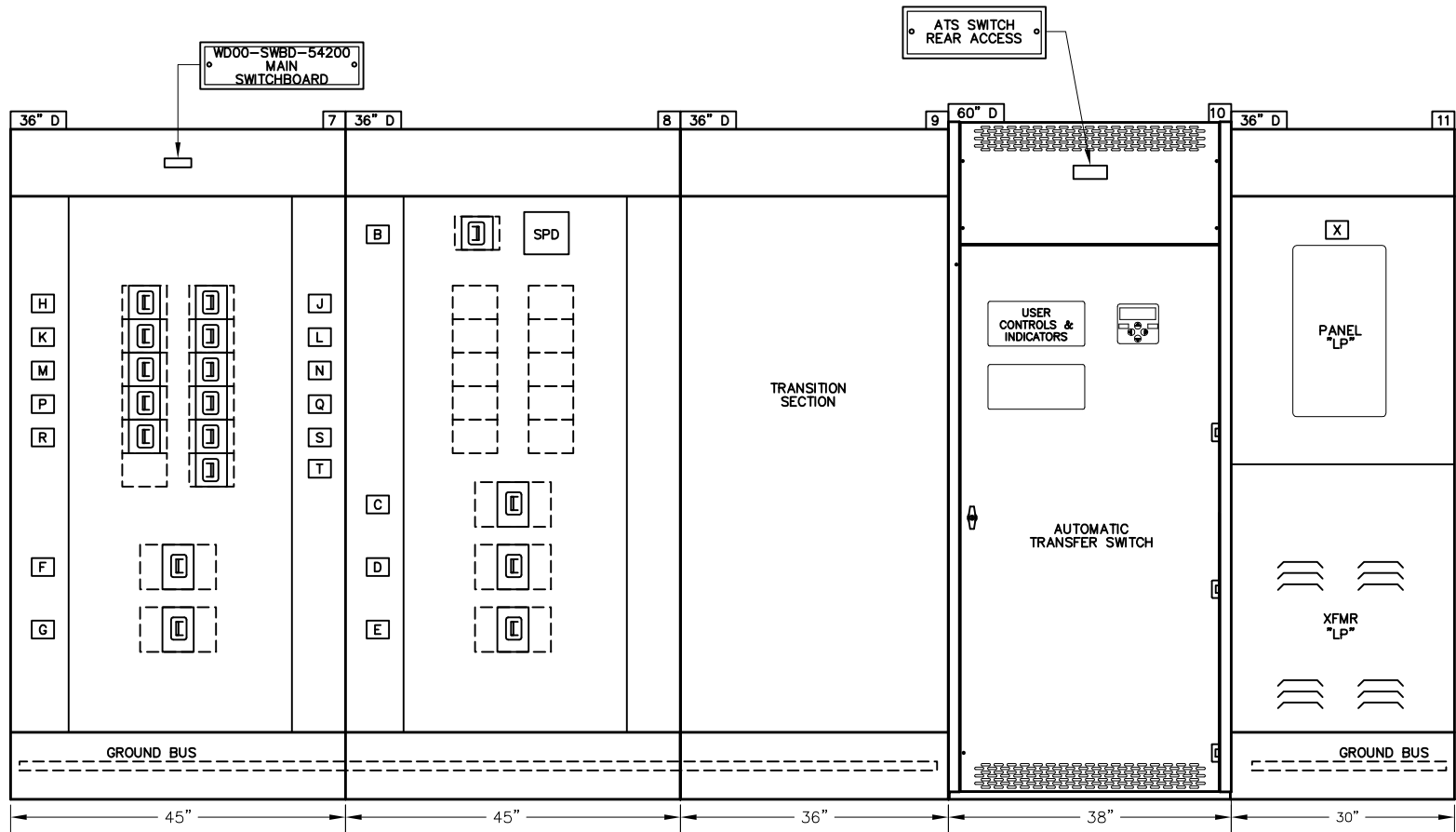
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DRAWN M. YARBROUGH	WATERWORKS ENGINEERS 2260 Douglas Blvd., Suite 105 • Roseville, CA 95678 • 916-790-2888
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APPROVED M. FISHER	
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	
ELECTRICAL SWITCHBOARD ONE-LINE AND ELEVATION	
DATE NOVEMBER 2019 PROJECT NUMBER 17-083 DRAWING NUMBER WD00-E-001 SHEET NUMBER 123	



ATS AND DISTRIBUTION ONE-LINE DIAGRAM



ATS AND DISTRIBUTION ELEVATION

INDOOR, NEMA 1

LEGEND

- VME VOLTAGE MONITORING RELAY
- PM POWER MONITOR
- SPD SURGE PROTECTIVE DEVICE, 300KA (MIN)

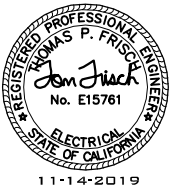
GENERAL NOTES:

- REAR ACCESS SHALL NOT BE REQUIRED TO SERVICE OR REPLACE SWITCHBOARD COMPONENTS.
- EACH BREAKER SHALL HAVE A PADLOCKABLE HASP TO LOCK BREAKER IN THE OFF POSITION.
- ALL DIMENSIONS ARE APPROXIMATE. ACTUAL DIMENSIONS SHALL BE PER MANUFACTURER APPROVED IN SUBMITTAL.
- FURNISH AND APPLY ENGRAVED WHITE LETTERING ON BLACK PLASTIC NAMEPLATES FOR DEVICES AND BREAKERS WHERE NOTED, AT MINIMUM, WITH A LETTERED BOX. TEXT HEIGHT SHALL BE 1/4 INCH MINIMUM. REFERENCE ONE-LINE DIAGRAM FOR LABEL.
- FURNISH CODE REQUIRED WARNING LABELS AND EQUIPMENT RATINGS LABELS.
- SEE TAGGING CONVENTIONS ON P&IDS TO COMPLETE EQUIPMENT TAG NUMBERS.

NOTES REFERENCED IN DRAWING:

- ① CABLES SHALL BE FIELD CUT TO LENGTH, STRIPPED, AND FIT. BRACE WIRES TO MAINTAIN 65K AIC RATING. PROVIDE 6 SETS 535 MCM TYPE K STRANDED CABLE PER PHASE WITH COMPRESSION LUG CONNECTORS.

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DRAWN: M. YARBROUGH
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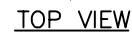
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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
ATS AND DISTRIBUTION
ONE-LINE AND ELEVATION

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-E-002
SHEET NUMBER 124



Ø.625 MOUNTING HOLES 6 PLACES.
1/2" MOUNTING HARDWARE MUST BE
GRADE 5. USE 1/2" BASE MOUNTING PLATE
SIMILAR TO POWER-STRUT P/N PS619.

- ### GENERAL NOTES

1. TYPE 1 ENCLOSURE WITH CUSTOM RAIN SHIELD AND REAR ACCESS PANEL.
FREE STANDING, FORMED FRAME CONSTRUCTION.
2. NEC STANDARD GAUGE PAN TYPE DOOR WITH LOCKABLE HANDLE.
FINISH: ANSI 61 GRAY, POLYESTER POWDER STANDARD. OTHER ANSI
COLORS AVAILABLE CONSULT FACTORY UL RECOGNIZED.
4. CONSTRUCTION IS IN ACCORDANCE WITH APPLICABLE REQUIREMENTS
OF UL 1008.
5. RECOMMENDED CLEARANCES: FRONT: 48 INCHES REAR: 36 INCHES
6. A 20% RATED GROUND BUS IS PROVIDED.
7. UNIT IS DESIGNED FOR COMBINATION TOP AND BOTTOM CABLE ENTRY.
THE STANDARD SWITCH CONFIGURATION IS FOR TOP LUGS EMERGENCY
AND LOAD AND BOTTOM LUGS NORMAL. OPTIONALLY, THE SWITCH MAY
BE SUPPLIED WITH EITHER NORMAL & EMERGENCY LUGS. (REFER TO
THE WIRING DIAGRAM FURNISHED WITH EACH TRANSFER SWITCH TO
DETERMINE TERMINATION POSITIONS).
8. NEUTRAL CONFIGURATIONS:
AN OPTIONAL FULL RATED NEUTRAL CONFIGURATION FOR EACH
SOURCE AND THE LOAD MAY BE PROVIDED. WHEN EQUIPPED
IT IS IN ONE OF THE FOLLOWING FORMATS AS SPECIFIED BY THE
CATALOG NUMBER NO. NEUTRAL TYPE:
 - (A) SOLID (COPPER BUS) NEUTRAL
 - (B) SWITCHED NEUTRAL POLE
 - (C) OVERLAPPING NEUTRAL POLE (NOT AVAILABLE ON ACTS/ADTS UNITS)

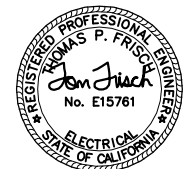
TERMINATIONS

1. ALL SIZES SUPPLIED STANDARD WITH MECHANICAL (SCREW TYPE) LUGS. (SEE AMP SIZE BELOW)
 - A. LUG MATERIAL: ALUMINUM ALLOY 8061-T6 WITH ELECTRO TIN PLATED FINISH.
 - B. SCREW MATERIAL: ALUMINUM ALLOY 6262-T9 WITH ELECTRO TIN PLATED FINISH.
 - C. UL LISTED, CSA CERTIFIED.
 - D. LUG SCREW TIGHTENING TORQUE PER UL 486B: 19 FT-LBS.
 - E. SUITABLE WIRE BENDING SPACE IS PROVIDED. (SEE AMP SIZE BELOW)
2. OPTIONAL COPPER CRIMP LUGS MAY BE SUPPLIED. (SEE AMP SIZE BELOW)
 - A. LUG MATERIAL: HIGH CONDUCTIVITY WROUGHT COPPER FINISH, ELECTRO TIN PLATED.
 - B. UL LISTED, CSA CERTIFIED.
 - C. LUG MOUNTING HARDWARE TIGHTENING TORQUE: (REFER TO WITHSTAND CURRENT RATING LABEL PROVIDED ON EACH TRANSFER SWITCH).
 - D. SUITABLE WIRE BENDING SPACE IS PROVIDED. (SEE AMP SIZE BELOW)
3. CONSULT FACTORY FOR OTHER TERMINATION REQUIREMENTS.
4. GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS. (SEE AMP SIZE BELOW).
5. CUSTOMER TERMINAL BLOCKS:
 - FOR ALL 7000 SERIES UNITS THE TB WILL BE MOUNTED ON THE UPPER RIGHT INSIDE OF ENCLOSURE.
 - FOR 4000 SERIES UNITS TB WILL BE MOUNTED ON THE TRANSFER SWITCH FRAME AS INDICATED.

CABLING NOTES 2600-3000 AMPS

1. SUPPLIED WITH STANDARD MECHANICAL (SCREW TYPE) LUGS ON THE NORMAL, EMERGENCY & LOAD BUS STABS. TWO (2) LUG PER PHASE AND NEUTRAL EACH SUITABLE FOR CONNECTION OF TWELVE (12) 1/0 - 750MCM CU/AL CABLE (SEE NOTE "E" BELOW).
 - A. SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO TWELVE (12) 750MCM CABLES PER TERMINAL PER TABLE 373-6(a) OF NFPA 70 OF THE NEC.
2. OPTIONAL COPPER CRIMP LUGS MAY BE SUPPLIED. UP TO EIGHT (8) TWO HOLE, LONG BARREL CU CRIMP LUGS RATED FOR UP TO 600MCM. (REFER TO CRIMP LUG INSTALLATION DATA PROVIDED WITH UNIT FOR FULL INSTALLATION DETAILS).
 - A. SUITABLE WIRE BENDING SPACE IS PROVIDED FOR UP TO EIGHT (8) 600MCM CABLES PER TERMINAL PER TABLE 373-6(b) OF NFPA 70 OF THE NEC.
3. GROUND LUGS ARE PROVIDED STANDARD AS FOLLOWS;
(36) 1/0 - 750MCM CU/AL CABLE

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11-14-2019

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CHECKED	M. FRISCH
APPROVED	M. FISHER

**FRISCH
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CONSULTING ELECTRICAL ENGINEERS
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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
AUTOMATIC TRANSFER
SWITCH DETAIL

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD00-E-003
SHEET NUMBER	125

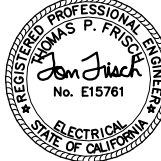
PANEL "LP-A"																																																																																							
LOCATION: PUMP BUILDING ENCLOSURE: SURFACE AIC RATING: 22 KAIC					120/208 VOLTS, 3 PHASE, 4 WIRE 200 AMP BUS 200 AMP MAIN BREAKER																																																																																		
BKR NO.	DESCRIPTION	LOAD VA	PHASE A	AMPS B	AMPS C	AMPS/POLE	BKR NO.	DESCRIPTION	BKR NO.																																																																														
1	LIGHTING - PUMP ROOM	420	3.5			20/1	1																																																																																
3	RECEPT - PUMP ROOM	1500		12.5		20/1*	3																																																																																
5	LIGHTING - CHEM & ELECTRICAL ROOM	420			3.5	20/1	5																																																																																
7	RECEPT - ELECTRICAL ROOM	750	6.3			20/1	7																																																																																
9	LIGHTING - AREA POLES	420		3.5		20/1	9																																																																																
11	RECEPT - SITE	1500			12.5	20/1*	11																																																																																
13	EXHAUST FAN - CHEMICAL AREA	1500	12.5			20/1	13																																																																																
15	RECEPT - OUTDOOR	1200		10.0		20/1	15																																																																																
17	LIGHTING OUTDOOR WALL	500			4.2	20/1	17																																																																																
19	RESIDUAL CHLORINE ANALYZER-STORAGE	350	2.9			20/1	19																																																																																
21	RESIDUAL CHLORINE ANALYZER-DIST	350		2.9		20/1	21																																																																																
23	SCADA TERMINAL	500			4.2	20/1	23																																																																																
25	SAMPLE PUMP	850	7.1			20/1	25																																																																																
27	TANK 1 LIT-151 HEATER	700		5.8		20/1	27																																																																																
29	TANK 2 LIT-251 HEATER	700			5.8	20/1	29																																																																																
31	TANK 1 DAVIT CRANE	1350	11.3			20/1	31																																																																																
33	FRONT GATE	1200		10.0		20/1	33																																																																																
35	TANK 2 DAVIT CRANE	1350			11.3	20/1	35																																																																																
37	SPACE	0	0.0			20/1	37																																																																																
39	SPACE	0		0.0		20/1	39																																																																																
41	SPACE	0			0.0	20/1	41																																																																																
<table><tr><td colspan="2">PHASE</td><td>A</td><td>B</td><td>C</td><td rowspan="2">NEUTRAL</td><td>A</td><td>B</td><td>C</td><td rowspan="3">PHASE</td></tr><tr><td>LEFT SIDE AMPS</td><td></td><td>43.5</td><td>44.8</td><td>41.4</td><td>25.8</td><td>38.8</td><td>51.3</td></tr><tr><td>LEFT SIDE KVA</td><td></td><td>5.22</td><td>5.37</td><td>4.97</td><td rowspan="7">GROUND</td><td>3.10</td><td>4.65</td><td>6.15</td></tr><tr><td>TOTAL PHASE KVA</td><td></td><td>8.32</td><td>10.02</td><td>11.12</td><td>29.46</td><td></td><td></td><td rowspan="2">TOTAL KVA</td></tr><tr><td>TOTAL PHASE AMPS</td><td></td><td>69.3</td><td>83.5</td><td>92.7</td><td>81.77</td><td></td><td></td></tr><tr><td>% OF AVERAGE</td><td></td><td>85</td><td>102</td><td>113</td><td>0.80</td><td></td><td></td><td rowspan="2">DEMAND FACTOR</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>23.57</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td rowspan="2">LOAD KVA</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										PHASE		A	B	C	NEUTRAL	A	B	C	PHASE	LEFT SIDE AMPS		43.5	44.8	41.4	25.8	38.8	51.3	LEFT SIDE KVA		5.22	5.37	4.97	GROUND	3.10	4.65	6.15	TOTAL PHASE KVA		8.32	10.02	11.12	29.46			TOTAL KVA	TOTAL PHASE AMPS		69.3	83.5	92.7	81.77			% OF AVERAGE		85	102	113	0.80			DEMAND FACTOR						23.57											LOAD KVA								
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NOTES: 1 MEANS OF WIRE COLOR CODING SHALL BE POSTED ON PANELBOARD PER NEC 210 (4)
2 ASTERISK (*) DENOTES GFI BREAKER REQUIRED WITH 5 MA SENSITIVITY
3 TILDA (~) DENOTES GFI BREAKER REQUIRED WITH 30 MA SENSITIVITY

LOAD CALCULATIONS										
LOAD DESCRIPTION		CONNECTED LOAD			DEMAND LOAD			GENERATOR LOAD		
		LOAD	QTY	TOTAL	LOAD	QTY	TOTAL	LOAD	QTY	TOTAL
250HP PUMP		302.00 A	5	1255390.4 VA	302.00 A	4	1004312.3 VA	302.00 A	4	1004312.3 VA
126kW WATER HEATER		151.00 A	1	125539.0 VA	151.00 A	1	125539.0 VA	151.00 A	1	125539.0 VA
56KW HVAC SYSTEM		68.00 A	1	56534.1 VA	68.00 A	1	56534.1 VA	68.00 A	1	56534.1 VA
PANELBOARD LP	120/208	35.43 A	1	29460.0 VA	28.35 A	1	23568.0 VA	28.35 A	1	23568.0 VA
PANELBOARD PP	277/480	72.17 A	1	60000.0 VA	57.74 A	1	48000.0 VA	57.74 A	1	48000.0 VA
TOTAL LOAD =		1836.60 A	<	1526923.6 VA	1513.08 A	<	1257953.5 VA	1513.08 A	<	1257953.5 VA
LOAD CORRECTION FACTORS				GENERATOR SIZE						
LARGEST MOTOR LOAD x 25%				NAMEPLATE = 1500 KW 1875 KVA			TEMP OF 100 deg F			
250HP HP => 0.25 x	251078.1 VA	=	75.50 A	62769.5 VA	75.50 A	62769.5 VA	ELEVATION OF 200 FT ASL			
80% BREAKER DERATING =	TOTAL x 0.25 =	478.03 A	397423.3 VA	397.15 A	330180.8 VA	DERATED SIZE = 1465.5 KW 1831.9 KVA				
FOR CONTINUOUS LOADS NEC 210—20				AMPERAGE = 2203 A @ 0.8 PF			UTILIZATION % = 77 % @ 0.90 PF			
SERVICE SIZE (MIN)		=	2390.13 A	1987116.4VA	1985.73 A	1650903.8VA				
UTILITY SERVICE SIZE REQUIRED =		2500 AMP								
480V, 3 PHASE, 4 WIRE										

FIXTURE SCHEDULE						
CODE LETTER	FIXTURE TYPE	FIXTURE LAMPS	WATTS/FIXTURE	MANUFACTURER OR APPROVED EQUAL	MOUNTING ARRANGEMENT	NOTES
A	STRIP LUMINAIRE, 4 FT, VAPORTIGHT MOLDED POLYCARBONATE HOUSING FROSTED LENS, MEDIUM DISTRIBUTION	6000 LUMEN 4500K	120V 50W	ATLAS ILW48LED40 RAB SEAL4-50/D10	CEILING MOUNT FIXTURE	U.L. LISTED -20F TO 140F
B	WALL PACK LIGHT DARK BRONZE COLOR ALUMINUM CASE	4000 LUMEN 4000K	120V 37W	ATLAS WSPS40LED RAB SLIM FC	WALL MOUNT 10 FT AFF	U.L. LISTED FOR WET LOCATIONS PHOTOCELL CONTROL FULL CUTOFF
E	EXIT LIGHT PACK WITH EGRESS LAMPS AND REMOTE OUTDOOR EGRESS FIXTURE LED LAMPS WITH RED LED SIGN INTEGRAL BATTERY AND CHARGER	2 LED 3W	120V 5W	DUAL-LITE HCX-U-R-W-03L-RC12 CPRSB0603L	WALL MOUNT 9 FT AFF	WHITE INTERIOR, BROWN EXTERIOR DUAL LED LAMPS INDOORS AND OUT 12W REMOTE LIGHT CAPACITY
P	POLE MOUNTED CUTOFF LUMINAIRE 4" SQUARE STEEL POLE BRONZE POLE AND LAMP HMF DISTRIBUTION	LED 40K COLOR 18992 LM	MVOLT 183W	LITHONIA D-SERIES SIZE 3	MOUNT ON POLE BASE PER DETAILS	POLE HEIGHT 20 FT OR AS SHOWN ON PLANS PHOTOCELL CONTROL

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11-14-2019

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M. YARBROUGH

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M. FRISCH

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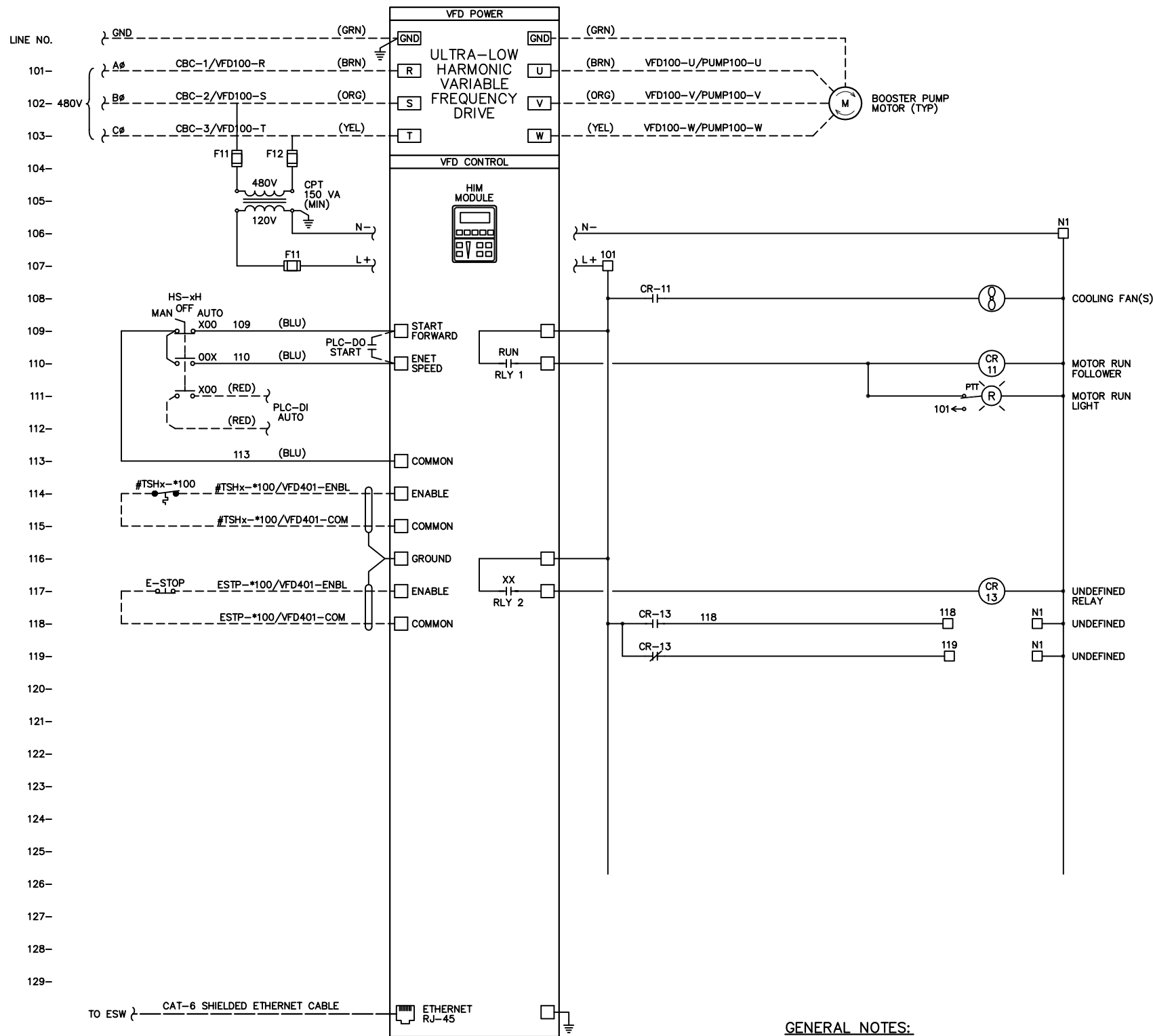
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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
PANEL SCHEDULES,
LOAD CALCULATIONS
AND FIXTURE SCHEDULE

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-E-004
SHEET NUMBER 126

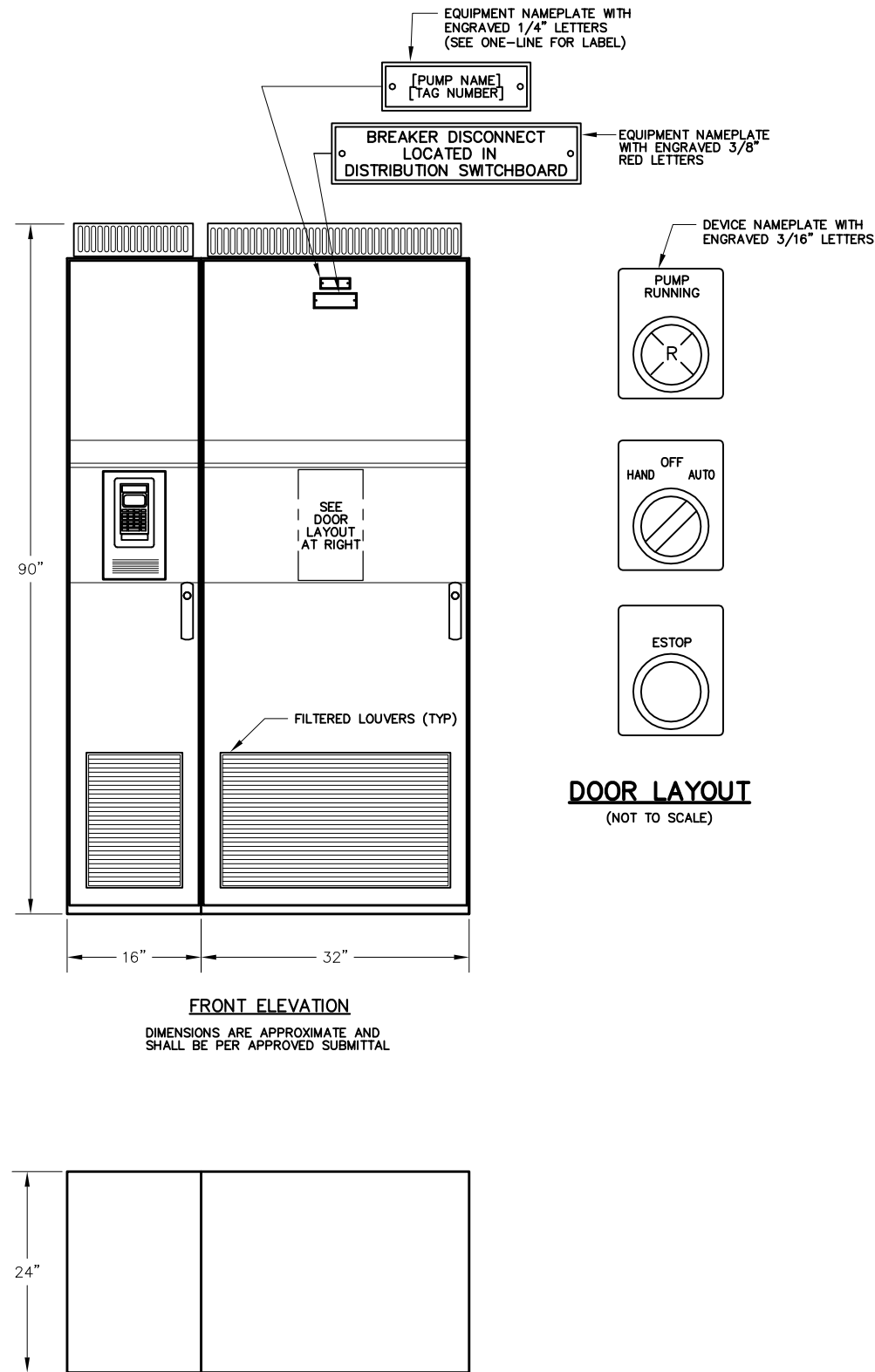


VFD PUMP MOTOR ELEMENTARY DIAGRAM

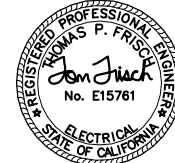
WD24-VFDx*100 WD24-VFDx*300

GENERAL NOTES:

1. TERMINAL BLOCKS AND WIRES SHALL BE LABELED SAME EXCEPT: WIRES TO PLC SHALL BE NUMBERED PER CONTROL PANEL TERMINAL BLOCK NUMBER.
2. DOOR LAYOUT IS DIAGRAMMATICAL AND IS INTENDED TO SHOW DEVICES REQUIRED. ACTUAL LAYOUT SHALL BE SUBMITTED FOR APPROVAL AND MAY DIFFER FROM THAT SHOWN ABOVE.
2. SIMILAR DIAGRAM FOR BOOSTER PUMPS 3
3. USE 3, 30 & 300 SERIES NUMBERING FOR PUMP NO. 3 DEVICES



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11-14-2019

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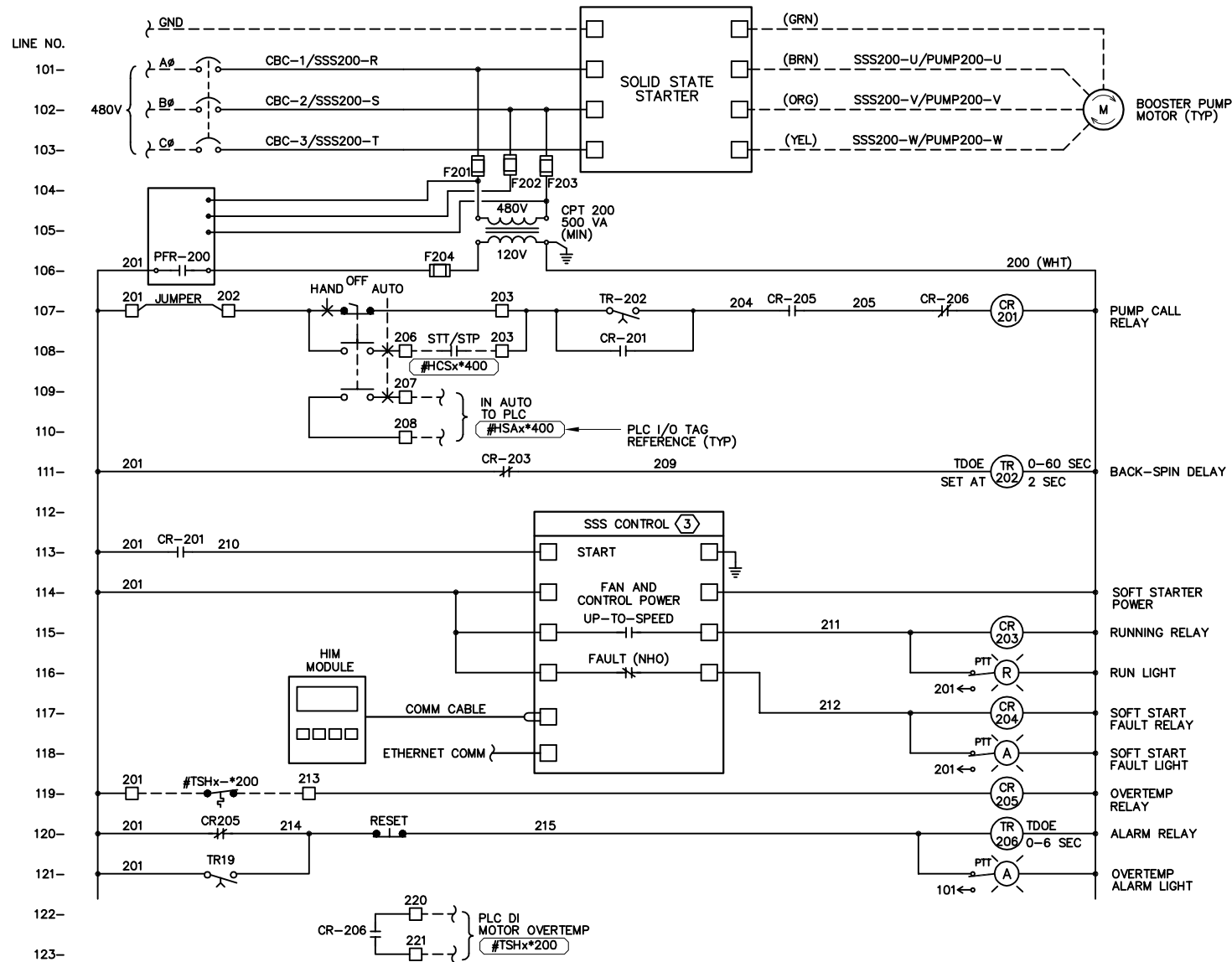
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CITY OF ROSEVILLE
WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)
ROSEVILLE, CALIFORNIA

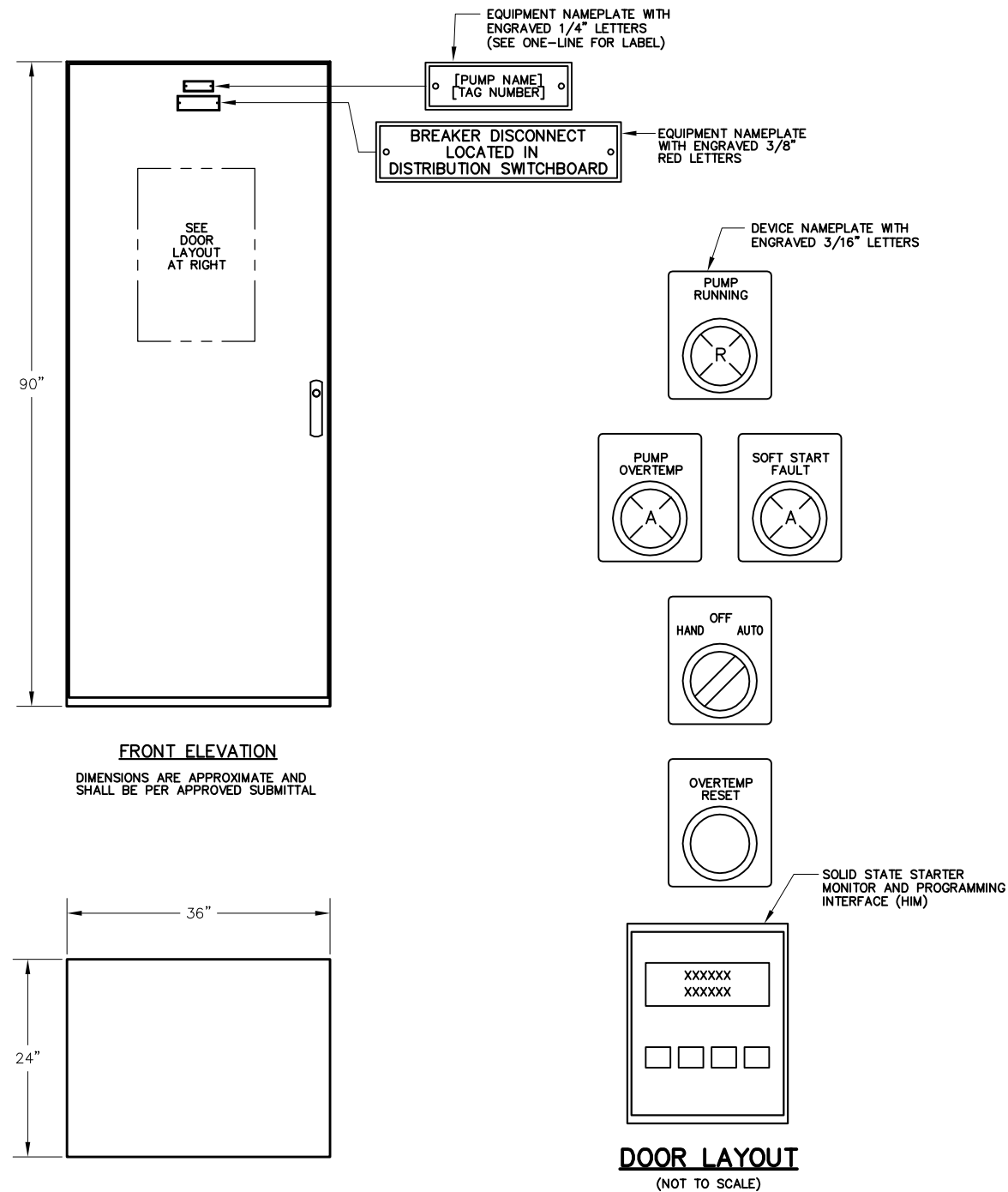
ELECTRICAL
VFD PUMP MOTOR
ELEMENTARY DIAGRAM

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD00-E-005
SHEET NUMBER	127



SSS PUMP MOTOR ELEMENTARY DIAGRAM

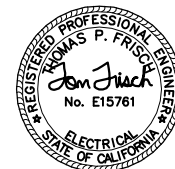
WD24-SSSx*200 WD24-SSSx*400 WD24-VFDx*500



GENERAL NOTES:

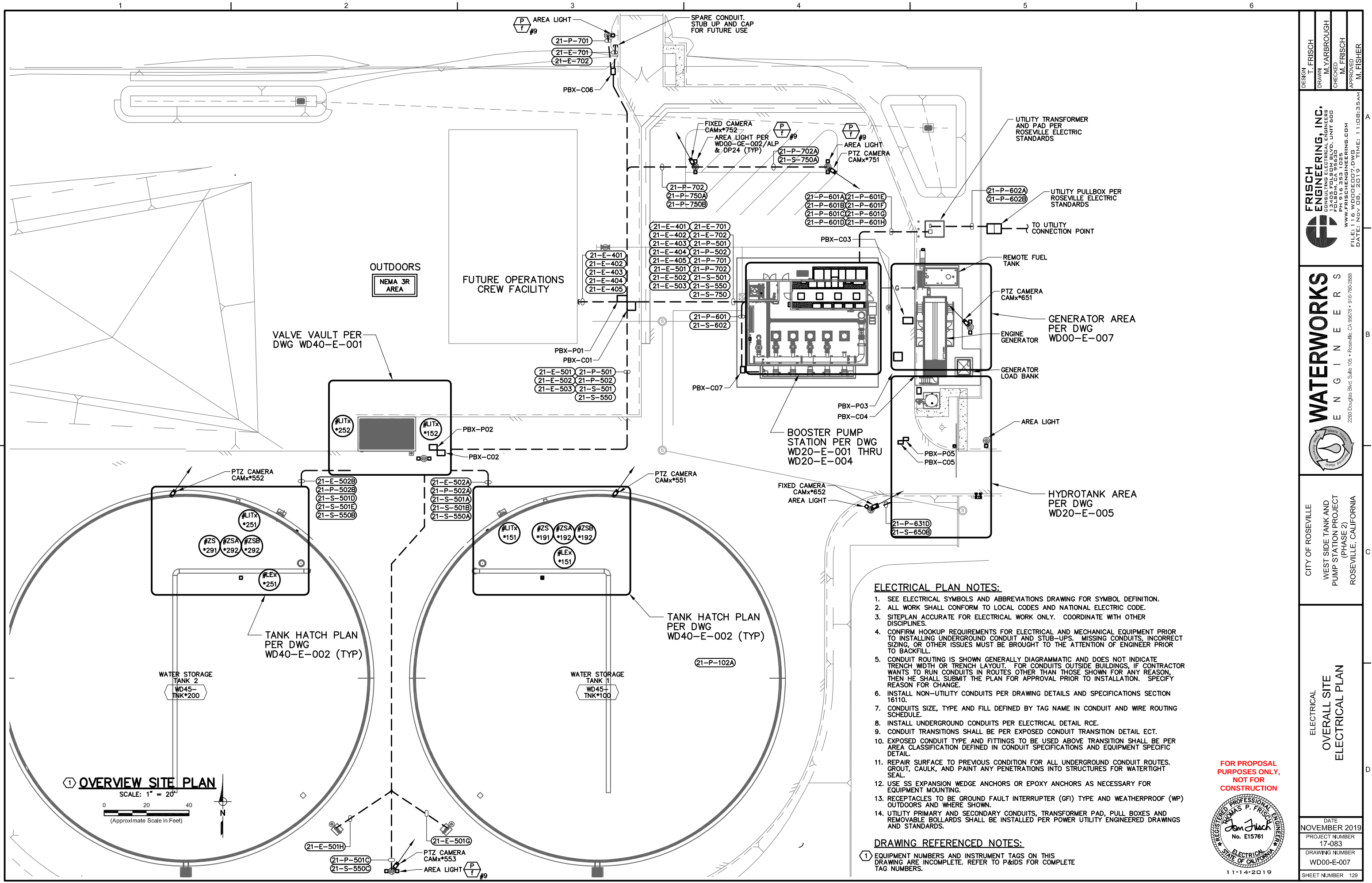
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2. SIMILAR DIAGRAM FOR BOOSTER PUMPS 4 & 5
3. USE 4, 40 & 400 SERIES NUMBERING FOR PUMP NO. 4 DEVICES
USE 5, 50 & 500 SERIES NUMBERING FOR PUMP NO. 5 DEVICES

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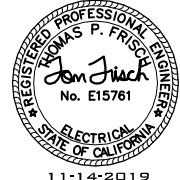
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WATERWORKS ENGINEERS 2260 Douglas Blvd., Suite 105 • Roseville, CA 95678 • 916-790-2888	
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	
ELECTRICAL SSS PUMP MOTOR ELEMENTARY DIAGRAM	
DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD00-E-006
SHEET NUMBER	128



DESIGN T. FRISCH	FRISCH ENGINEERING, INC. 13405 FOLESBY BLVD., UNIT 600 FOLSOM, CA 95630 WWW.FRISCHENGINEERING.COM FILE: 116 WD00E007.DWG DATE: NOV 08, 2019 TIME: 11:08:35AM	A
DRAWN M. YARBROUGH		
CHECKED M. FRISCH		
APPROVED M. FISHER		
WATERWORKS ENGINEERS 2260 Douglas Blvd. Suite 105 • Roseville, CA 95678 • 916-790-2688		
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA		
ELECTRICAL OVERALL SITE ELECTRICAL PLAN		
DATE NOVEMBER 2019		
PROJECT NUMBER 17-083		
DRAWING NUMBER WD00-E-007		
SHEET NUMBER 129		

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CONSTRUCTION

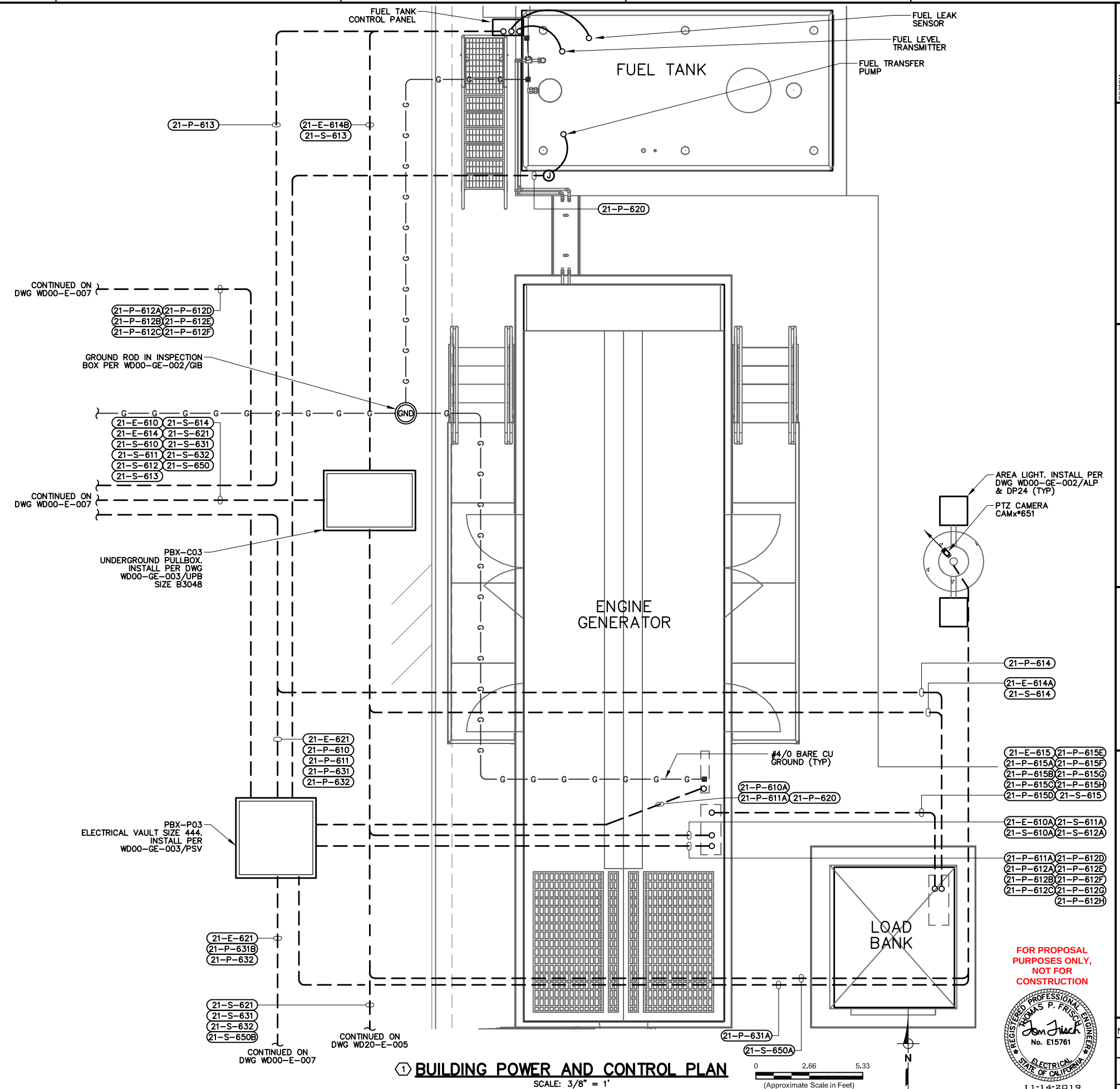


11-14-2019

1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
2. ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
3. SITEPLAN ACCURATE FOR ELECTRICAL WORK ONLY. COORDINATE WITH OTHER DISCIPLINES.
4. CONFIRM HOOKUP REQUIREMENTS FOR ELECTRICAL AND MECHANICAL EQUIPMENT PRIOR TO INSTALLING UNDERGROUND CONDUIT AND STUB-UPS. MISSING CONDUITS, INCORRECT SIZING, OR OTHER ISSUES MUST BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO BACKFILL.
5. CONDUIT ROUTING IS SHOWN GENERALLY DIAGRAMMATIC AND DOES NOT INDICATE TRENCH WIDTH OR TRENCH LAYOUT. FOR CONDUITS OUTSIDE BUILDINGS, IF CONTRACTOR WANTS TO RUN CONDUITS IN ROUTES OTHER THAN THOSE SHOWN FOR ANY REASON, THEN HE SHALL SUBMIT THE PLAN FOR APPROVAL PRIOR TO INSTALLATION. SPECIFY REASON FOR CHANGE.
6. INSTALL NON-UTILITY CONDUITS PER DRAWING DETAILS AND SPECIFICATIONS SECTION 16110.
7. CONDUITS SIZE, TYPE AND FILL DEFINED BY TAG NAME IN CONDUIT AND WIRE ROUTING SCHEDULE.
8. INSTALL UNDERGROUND CONDUITS PER ELECTRICAL DETAIL RCE.
9. CONDUIT TRANSITIONS SHALL BE PER EXPOSED CONDUIT TRANSITION DETAIL ECT.
10. EXPOSED CONDUIT TYPE AND FITTINGS TO BE USED ABOVE TRANSITION SHALL BE PER AREA CLASSIFICATION DEFINED IN CONDUIT SPECIFICATIONS AND EQUIPMENT SPECIFIC DETAIL.
11. REPAIR SURFACE TO PREVIOUS CONDITION FOR ALL UNDERGROUND CONDUIT ROUTES. GROUT, CAULK, AND PAINT ANY PENETRATIONS INTO STRUCTURES FOR WATERTIGHT SEAL.
12. USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.
13. RECEPTACLES TO BE GROUND FAULT INTERRUPTER (GFI) TYPE AND WEATHERPROOF (WP) OUTDOORS AND WHERE SHOWN.

1 EQUIPMENT NUMBERS AND INSTRUMENT TAGS ON THIS DRAWING ARE INCOMPLETE. REFER TO P&IDS FOR COMPLETE TAG NUMBERS.

2 ALL TYPE A FIXTURES TO BE MOUNTED AT 10 FEET AFF (TYPICAL).



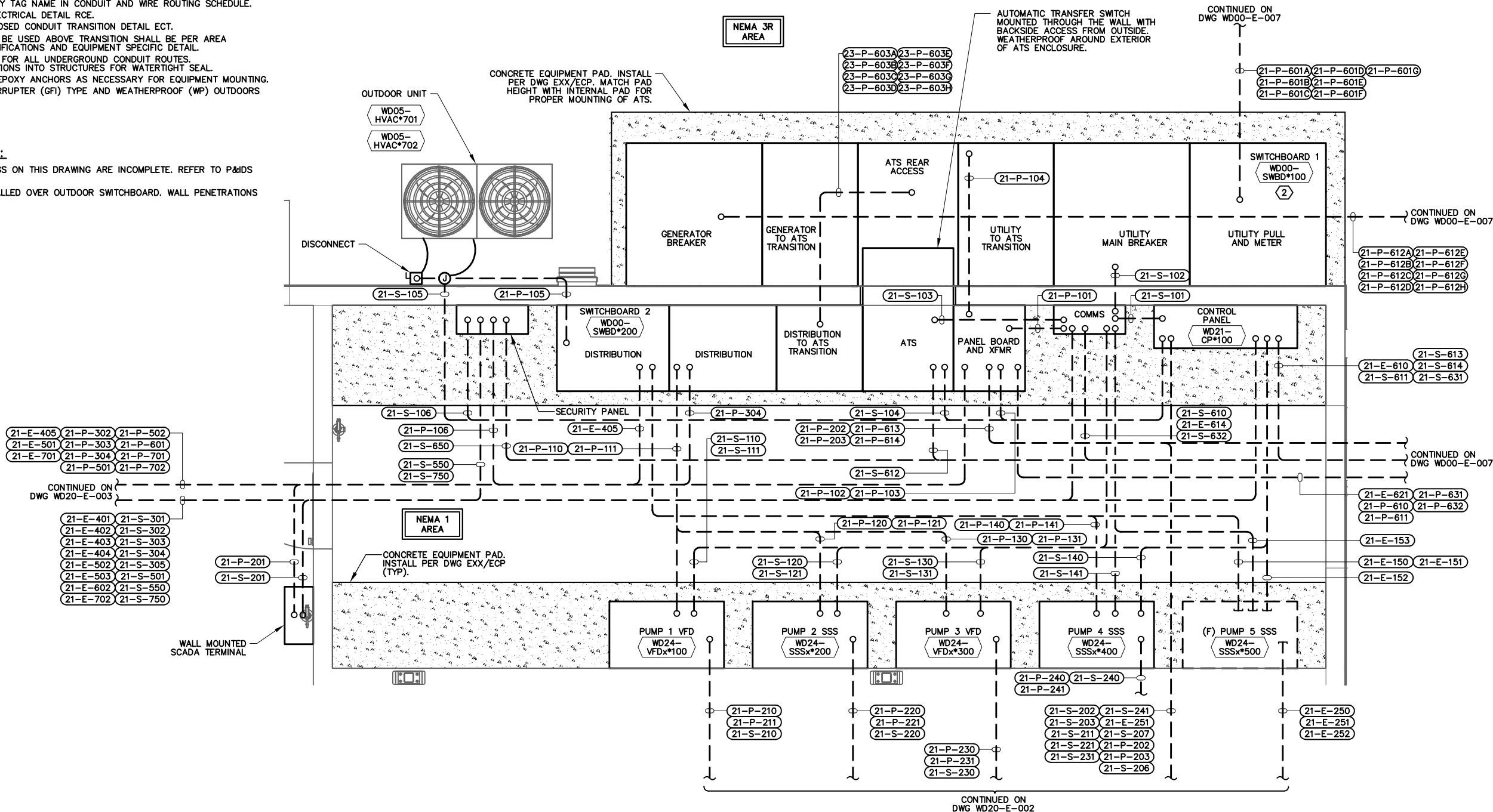
ELECTRICAL GENERATOR AREA ELECTRICAL PLAN	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	 2550 Douglas Blvd, Suite 105 • Roseville, CA 95678 • 916/760-2888 WWW.WATERWORKSENGINEERING.COM	WATERWORKS ENGINEERS	FRISCH ENGINEERING, INC. CONSULTING ELECTRICAL ENGINEERS 10000 FOLEY BLVD., UNIT 600 FOLSOM, CA 95630 WWW.FRISCHENGINEERING.COM	DRAWN: T. FRISCH CHECKED: M. YARBROUGH APPROVED: M. FRISCH M. FISHER FILE: 116.WD00E007.DWG DATE: NOV 08, 2019 TIME: 11:08:49AM
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ELECTRICAL PLAN NOTES:

1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
2. ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
3. SITEPLAN ACCURATE FOR ELECTRICAL WORK ONLY. COORDINATE WITH OTHER DISCIPLINES.
4. CONFIRM HOOKUP REQUIREMENTS FOR ELECTRICAL AND MECHANICAL EQUIPMENT PRIOR TO INSTALLING UNDERGROUND CONDUIT AND STUB-UPS. MISSING CONDUITS, INCORRECT SIZING, OR OTHER ISSUES MUST BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO BACKFILL.
5. CONDUIT ROUTING IS SHOWN GENERALLY DIAGRAMMATIC AND DOES NOT INDICATE TRENCH WIDTH OR TRENCH LAYOUT. FOR CONDUITS OUTSIDE BUILDINGS, IF CONTRACTOR WANTS TO RUN CONDUITS IN ROUTES OTHER THAN THOSE SHOWN FOR ANY REASON, THEN HE SHALL SUBMIT THE PLAN FOR APPROVAL PRIOR TO INSTALLATION. SPECIFY REASON FOR CHANGE.
6. INSTALL NON-UTILITY CONDUITS PER DRAWING DETAILS AND SPECIFICATIONS SECTION 16110.
7. CONDUITS SIZE, TYPE AND FILL DEFINED BY TAG NAME IN CONDUIT AND WIRE ROUTING SCHEDULE.
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11. REPAIR SURFACE TO PREVIOUS CONDITION FOR ALL UNDERGROUND CONDUIT ROUTES. GROUT, CAULK, AND PAINT ANY PENETRATIONS INTO STRUCTURES FOR WATERTIGHT SEAL.
12. USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.
13. RECEPTACLES TO BE GROUND FAULT INTERRUPTER (GFI) TYPE AND WEATHERPROOF (WP) OUTDOORS AND WHERE SHOWN.

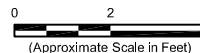
DRAWING REFERENCED NOTES:

- 1 EQUIPMENT NUMBERS AND INSTRUMENT TAGS ON THIS DRAWING ARE INCOMPLETE. REFER TO P&IDS FOR COMPLETE TAG NUMBERS.
- 2 CUSTOM FLANGE OR HOOD SHALL BE INSTALLED OVER OUTDOOR SWITCHBOARD. WALL PENETRATIONS SHALL BE WATERPROOF.



1 ELECTRICAL ROOM POWER AND CONTROL PLAN

SCALE: 1/2" = 1'



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NOT FOR
CONSTRUCTION



11-14-2019

DESIGN	T. FRISCH
DRAWN	M. YARBROUGH
CHECKED	M. FRISCH
APPROVED	M. FISHER

FRISCH ENGINEERING, INC.
13405 FOLESON BLVD., UNIT 600
FOLSOM, CA 95630
WWW.FRISCHENGINEERING.COM
FILE: 120 WD20E001.DWG
DATE: NOV 08, 2019 TIME: 4:58:13PM



CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
ELECTRICAL ROOM POWER
AND CONTROL PLAN

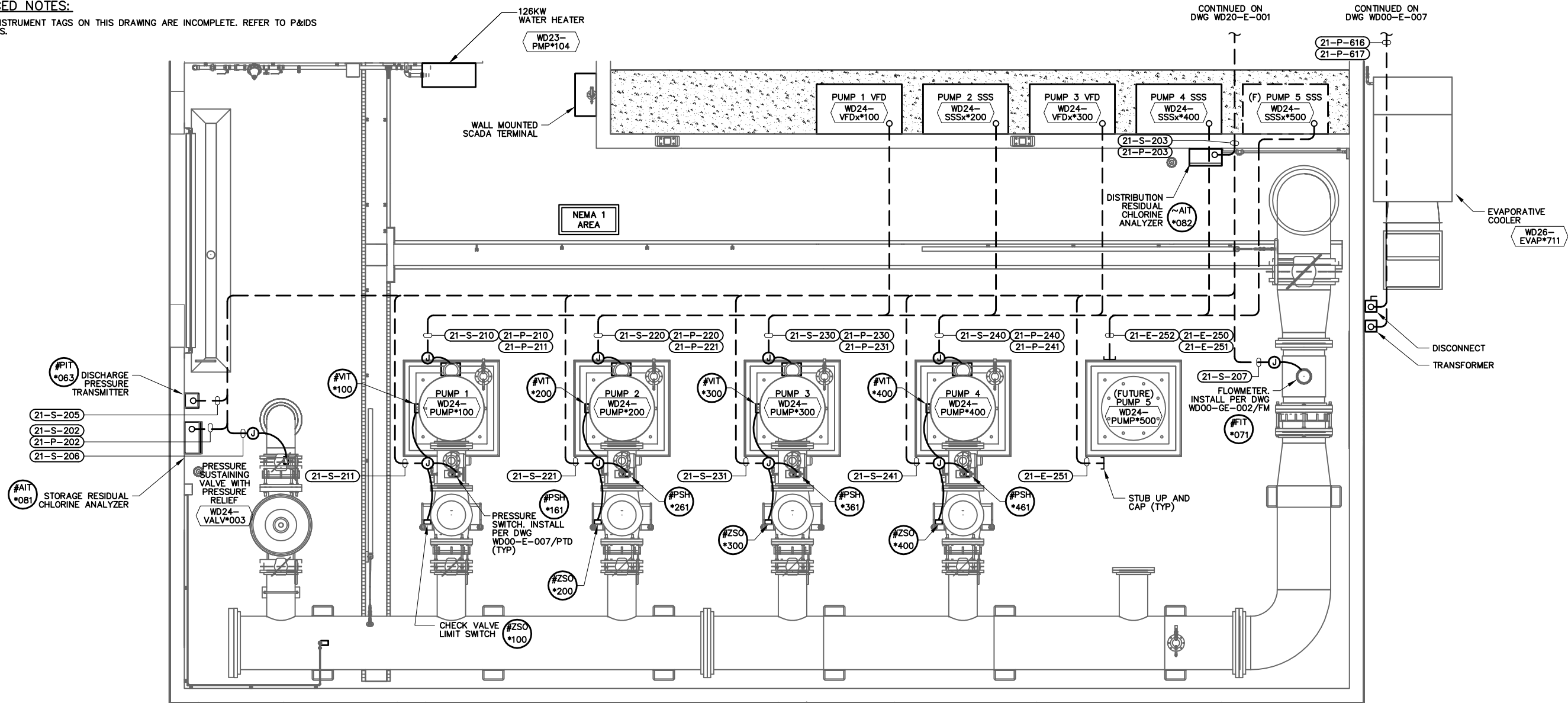
DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD20-E-001
SHEET NUMBER	131

ELECTRICAL PLAN NOTES:

1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
2. ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
3. SITEPLAN ACCURATE FOR ELECTRICAL WORK ONLY. COORDINATE WITH OTHER DISCIPLINES.
4. CONFIRM HOOKUP REQUIREMENTS FOR ELECTRICAL AND MECHANICAL EQUIPMENT PRIOR TO INSTALLING UNDERGROUND CONDUIT AND STUB-UPS. MISSING CONDUITS, INCORRECT SIZING, OR OTHER ISSUES MUST BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO BACKFILL.
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12. USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.
13. RECEPTACLES TO BE GROUND FAULT INTERRUPTER (GFI) TYPE AND WEATHERPROOF (WP) OUTDOORS AND WHERE SHOWN.

DRAWING REFERENCED NOTES:

- ① EQUIPMENT NUMBERS AND INSTRUMENT TAGS ON THIS DRAWING ARE INCOMPLETE. REFER TO P&IDS FOR COMPLETE TAG NUMBERS.



① PUMP ROOM POWER AND CONTROL PLAN

SCALE: 3/8" = 1'

0 2.66 5.33
(Approximate Scale in Feet)



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CONSTRUCTION



DESIGN	T. FRISCH
DRAWN	M. YARBROUGH
CHECKED	M. FRISCH
APPROVED	M. FISHER

FRISCH ENGINEERING, INC.
13405 FOLESBY BLVD., UNIT 600
FOLSOM, CA 95630
WWW.FRISCHENGINEERING.COM
FILE: 120 WD20E001.DWG
DATE: NOV 08, 2019 TIME: 11:13:07AM



CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
PUMP ROOM POWER
AND CONTROL PLAN

DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD20-E-002
SHEET NUMBER	132

ELECTRICAL PLAN NOTES:

1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
2. ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
3. SITEPLAN ACCURATE FOR ELECTRICAL WORK ONLY. COORDINATE WITH OTHER DISCIPLINES.
4. CONFIRM HOOKUP REQUIREMENTS FOR ELECTRICAL AND MECHANICAL EQUIPMENT PRIOR TO INSTALLING UNDERGROUND CONDUIT AND STUB-UPS. MISSING CONDUITS, INCORRECT SIZING, OR OTHER ISSUES MUST BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO BACKFILL.
5. CONDUIT ROUTING IS SHOWN GENERALLY DIAGRAMMATIC AND DOES NOT INDICATE TRENCH WIDTH OR TRENCH LAYOUT. FOR CONDUITS OUTSIDE BUILDINGS, IF CONTRACTOR WANTS TO RUN CONDUITS IN ROUTES OTHER THAN THOSE SHOWN FOR ANY REASON, THEN HE SHALL SUBMIT THE PLAN FOR APPROVAL PRIOR TO INSTALLATION. SPECIFY REASON FOR CHANGE.
6. INSTALL NON-UTILITY CONDUITS PER DRAWING DETAILS AND SPECIFICATIONS SECTION 16110.
7. CONDUITS SIZE, TYPE AND FILL DEFINED BY TAG NAME IN CONDUIT AND WIRE ROUTING SCHEDULE.
8. INSTALL UNDERGROUND CONDUITS PER ELECTRICAL DETAIL RCE.
9. CONDUIT TRANSITIONS SHALL BE PER EXPOSED CONDUIT TRANSITION DETAIL ECT.
10. EXPOSED CONDUIT TYPE AND FITTINGS TO BE USED ABOVE TRANSITION SHALL BE PER AREA CLASSIFICATION DEFINED IN CONDUIT SPECIFICATIONS AND EQUIPMENT SPECIFIC DETAIL.
11. REPAIR SURFACE TO PREVIOUS CONDITION FOR ALL UNDERGROUND CONDUIT ROUTES. GROUT, CAULK, AND PAINT ANY PENETRATIONS INTO STRUCTURES FOR WATERTIGHT SEAL.
12. USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.
13. RECEPTACLES TO BE GROUND FAULT INTERRUPTER (GFI) TYPE AND WEATHERPROOF (WP) OUTDOORS AND WHERE SHOWN.

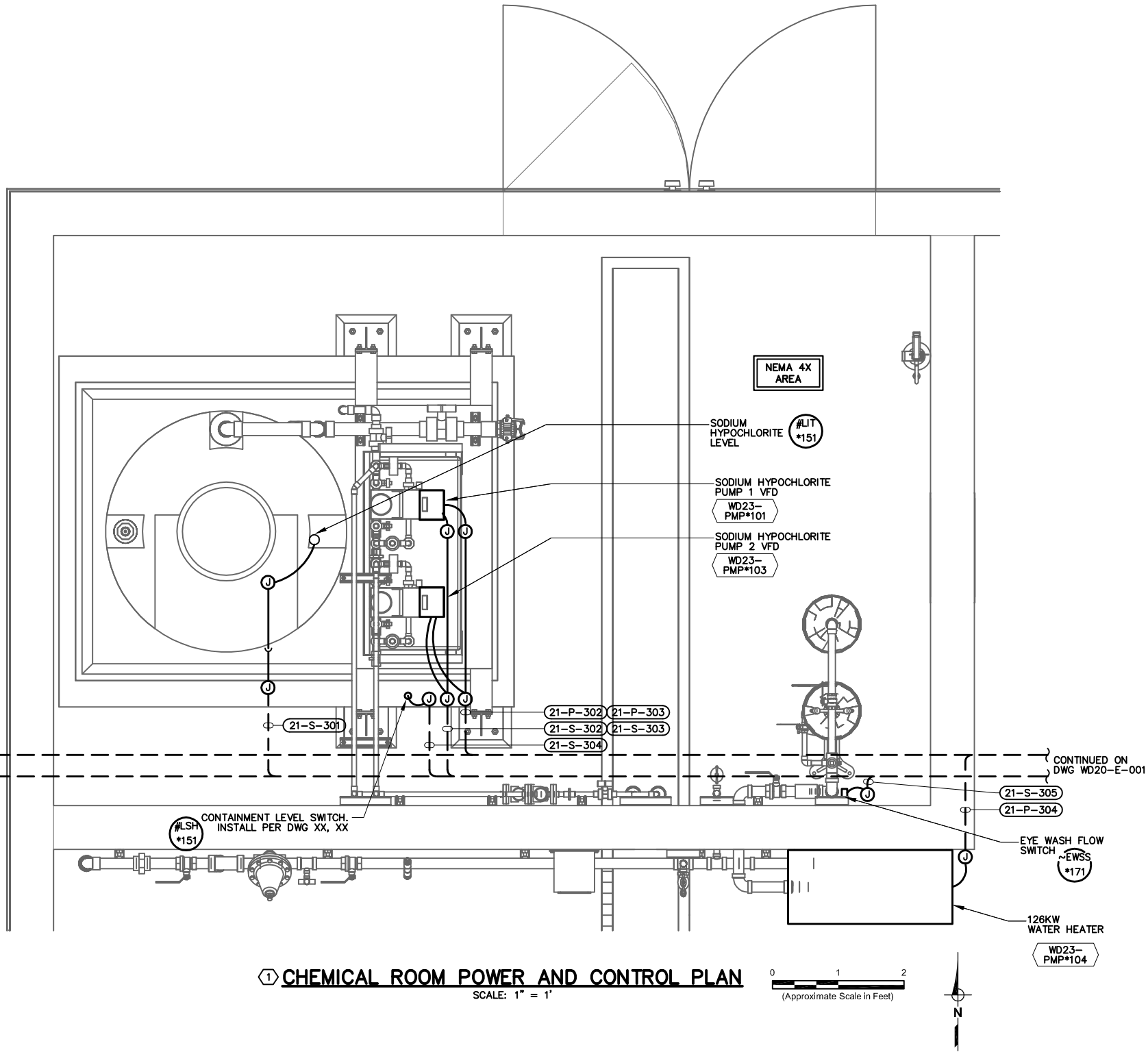
DRAWING REFERENCED NOTES:

- ① EQUIPMENT NUMBERS AND INSTRUMENT TAGS ON THIS DRAWING ARE INCOMPLETE. REFER TO P&IDS FOR COMPLETE TAG NUMBERS.

21-E-405 21-P-502
21-E-501 21-P-601
21-E-701 21-P-701
21-P-501 21-P-702

CONTINUED ON
DWG WD00-E-007

21-E-401 21-E-503
21-E-402 21-E-602
21-E-403 21-E-702
21-E-404 21-S-501
21-E-502 21-S-550
21-S-750

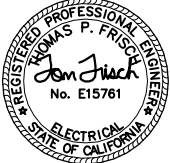


① CHEMICAL ROOM POWER AND CONTROL PLAN
SCALE: 1" = 1'

0 1 2
(Approximate Scale in Feet)



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NOT FOR
CONSTRUCTION



11-14-2019

DESIGN T. FRISCH
DRAWN M. YARBROUGH
CHECKED M. FRISCH
APPROVED M. FISHER

FRISCH ENGINEERING, INC.
13405 FOLESDEN BLVD., UNIT 600
FOLSOM, CA 95630
WWW.FRISCHENGINEERING.COM
FILE: 120 WD20E001.DWG
DATE: NOV 08, 2019 TIME: 11:13:19AM

WATERWORKS
ENGINEERS
2260 Douglas Blvd., Suite 105 • Roseville, CA 95678 • 916-790-2688



CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
CHEMICAL ROOM POWER
AND CONTROL PLAN

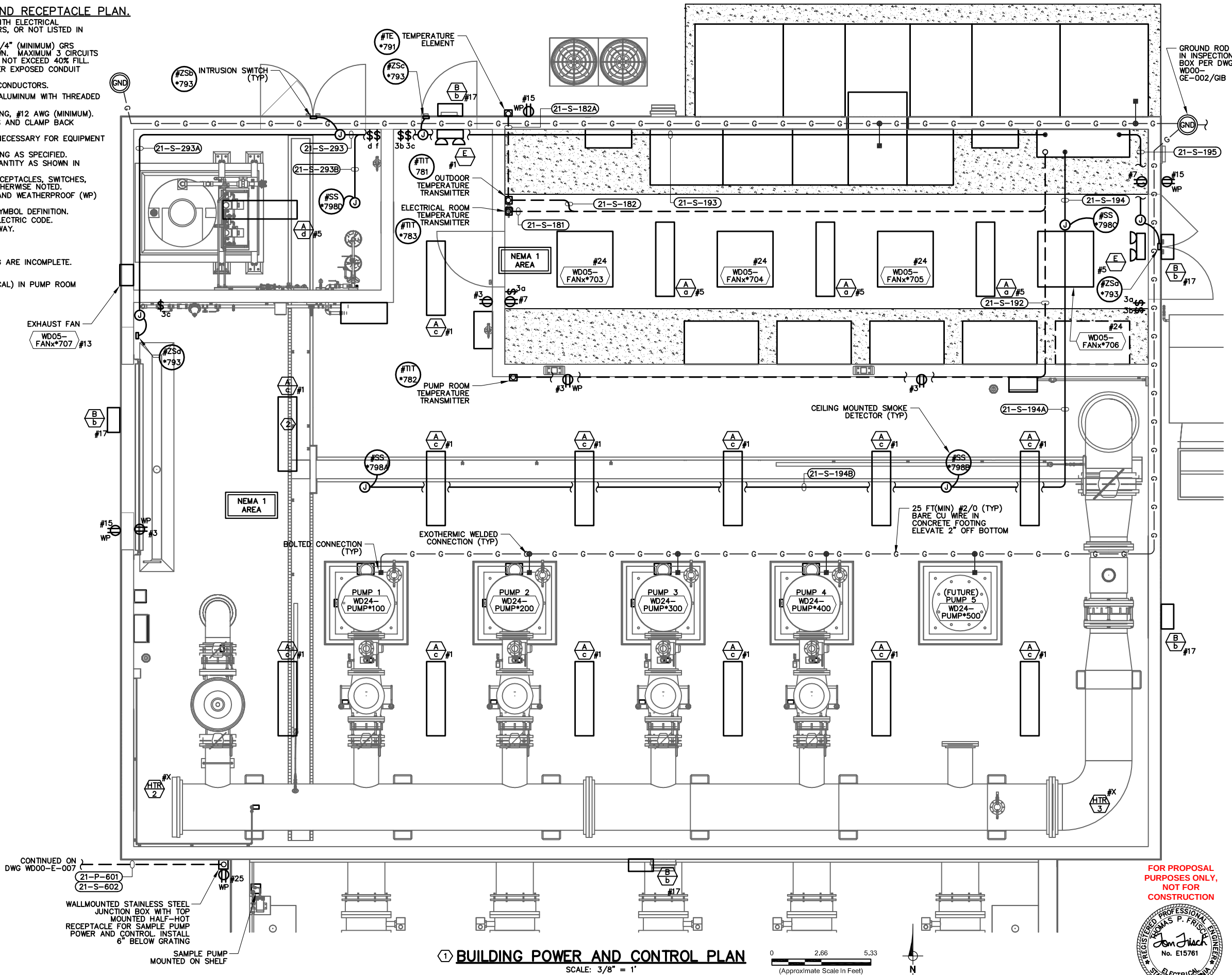
DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD20-E-003
SHEET NUMBER 133

GENERAL NOTES THAT APPLY TO LIGHTING AND RECEPTACLE PLAN.

1. THESE NOTES SHALL APPLY TO ALL EQUIPMENT OR FIXTURES WITH ELECTRICAL CONNECTIONS BUT WITHOUT CONDUITS SHOWN, CONDUIT NUMBERS, OR NOT LISTED IN SCHEDULE.
2. PROVIDE AND INSTALL NECESSARY WIRES IN SURFACE MOUNT 3/4" (MINIMUM) GRS CONDUIT FOR ELECTRICAL FIXTURE ARRANGEMENT AS SHOWN. MAXIMUM 3 CIRCUITS PER CONDUIT SECTION OVER 24" IN LENGTH. CONDUITS SHALL NOT EXCEED 40% FILL.
3. CONDUITS UNDER SLAB SHALL BE PVC-40 WITH STUB-OUTS PER EXPOSED CONDUIT TRANSITION DETAIL.
4. ACCESS TO ATTIC AREA SHALL NOT BE REQUIRED TO INSTALL CONDUCTORS.
5. DEVICE BOXES AND CONDUIT BODIES SHALL BE CAST IRON OR ALUMINUM WITH THREADED HUB.
6. CONDUCTORS SHALL BE COPPER TYPE THHN, CLASS C STRANDING, #12 AWG (MINIMUM).
7. MOUNT CONDUITS USING SINGLE BOLT GALVANIZED PIPE STRAPS AND CLAMP BACK SPACERS.
8. USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.
9. EXPOSED CONDUIT SHALL BE PAINTED WITH WALL AND/OR CEILING AS SPECIFIED.
10. PROVIDE AND INSTALL FIXTURES PER SCHEDULE THIS PAGE, QUANTITY AS SHOWN IN DRAWINGS.
11. PROVIDE AND INSTALL ALL DEVICE BOXES, JUNCTION BOXES, RECEPTACLES, SWITCHES, AND COVERS MOUNT ALL RECEPTACLES AT 48" AFF UNLESS OTHERWISE NOTED.
12. RECEPTACLES TO BE GROUND FAULT INTERRUPTER (GFI) TYPE AND WEATHERPROOF (WP) WHERE SHOWN.
13. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
14. ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
15. SWITCH TYPE: T= TIME SWITCH, M= MOTION DETECTOR, 3= 3-WAY.

DRAWING REFERENCED NOTES:

1. EQUIPMENT NUMBERS AND INSTRUMENT TAGS ON THIS DRAWING ARE INCOMPLETE. REFER TO P&IDS FOR COMPLETE TAG NUMBERS.
2. ALL TYPE A FIXTURES TO BE MOUNTED AT 10 FEET AFF (TYPICAL) IN PUMP ROOM AND ON CEILING IN ELECTRICAL AND CHEMICAL ROOMS.



1 BUILDING POWER AND CONTROL PLAN
SCALE: 3/8" = 1'

0 2.66 5.33
(Approximate Scale in Feet)



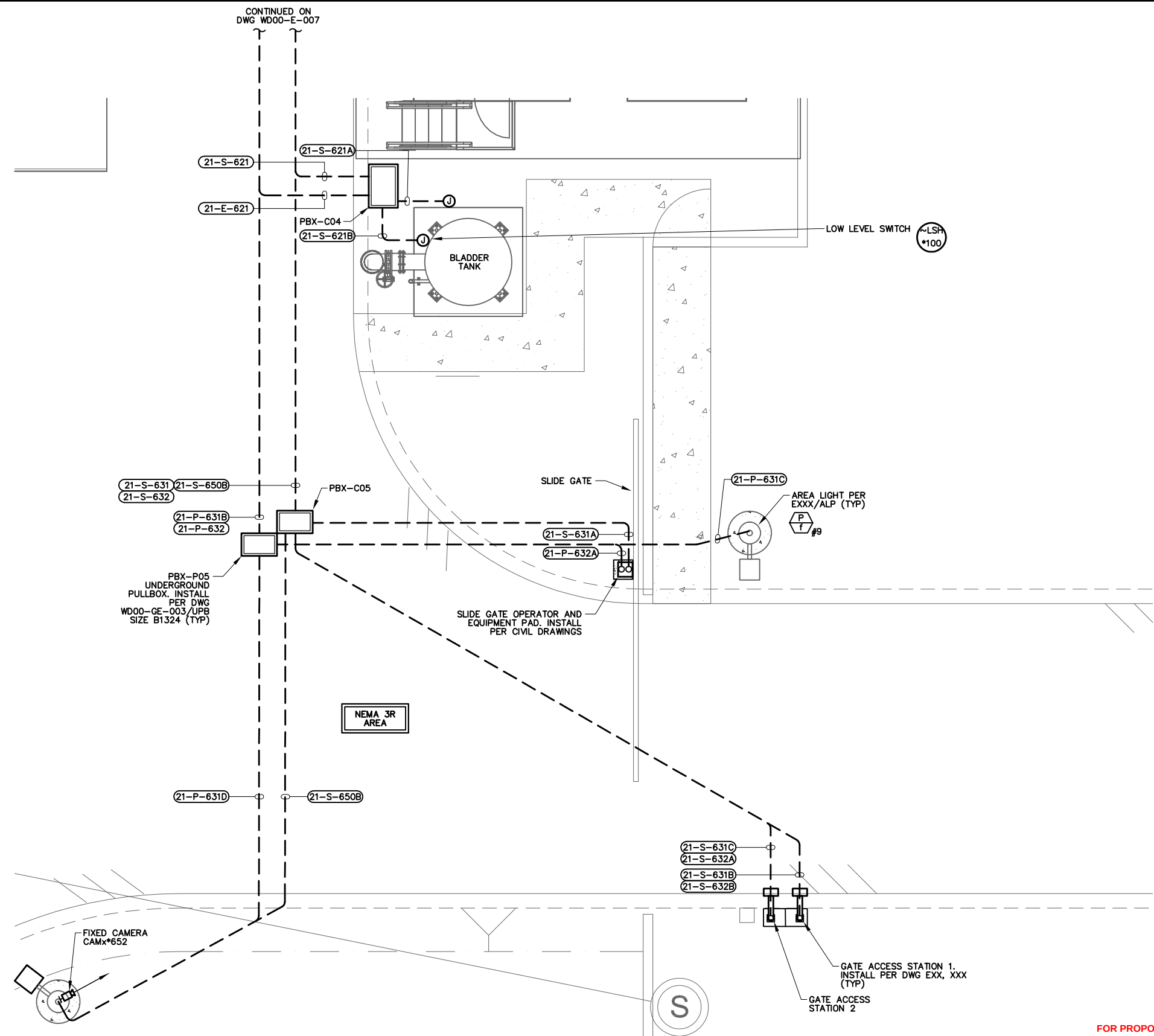
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CONSTRUCTION



DESIGN T. FRISCH	FRISCH ENGINEERING, INC. 13405 FOLEY BLVD., UNIT 600 FOLSOM, CA 95630 WWW.FRISCHENGINEERING.COM DATE: NOV 08, 2019 TIME: 11:31:32AM	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	ELECTRICAL BUILDING LIGHTING AND RECEPTACLE PLAN	DATE NOVEMBER 2019
DRAWN M. YARBROUGH	CHECKED M. FRISCH			APPROVED M. FISHER
SHEET NUMBER 134				DRAWING NUMBER WD20-E-004

1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
2. ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
3. SITEPLAN ACCURATE FOR ELECTRICAL WORK ONLY. COORDINATE WITH OTHER DISCIPLINES.
4. CONFIRM HOOKUP REQUIREMENTS FOR ELECTRICAL AND MECHANICAL EQUIPMENT PRIOR TO INSTALLING UNDERGROUND CONDUIT AND STUB-UPS. MISSING CONDUITS, INCORRECT SIZING, OR OTHER ISSUES MUST BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO BACKFILL.
5. CONDUIT ROUTING IS SHOWN GENERALLY DIAGRAMMATIC AND DOES NOT INDICATE TRENCH WIDTH OR CONDUIT LENGTH. FOR CONDUITS OUTSIDE BUILDINGS, IF CONTRACTOR WANTS TO RUN 3" CONDUITS IN ROUTES OTHER THAN THOSE SHOWN FOR ANY REASON, THEN HE SHALL SUBMIT THE PLAN FOR APPROVAL PRIOR TO INSTALLATION. SPECIFY REASON FOR CHANGE.
6. INSTALL NON-UTILITY CONDUITS PER DRAWING DETAILS AND SPECIFICATIONS SECTION 16110.
7. CONDUITS SIZE, TYPE AND FILL DEFINED BY TAG NAME IN CONDUIT AND WIRE ROUTING SCHEDULE.
8. INSTALL UNDERGROUND CONDUITS PER ELECTRICAL DETAIL RCE.
9. CONDUIT TRANSITIONS SHALL BE PER EXPOSED CONDUIT TRANSITION DETAIL ECT.
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11. REPAIR SURFACE TO PREVIOUS CONDITION FOR ALL UNDERGROUND CONDUIT ROUTES. GROUT, CAULK, AND PAINT ANY PENETRATIONS INTO STRUCTURES FOR WATERTIGHT SEAL.
12. USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.
13. RECEPTABLES TO BE GROUND FAULT INTERRUPTER (GFI) TYPE AND WEATHERPROOF (WP) OUTDOORS AND WHERE SHOWN.

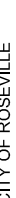
1 EQUIPMENT NUMBERS AND INSTRUMENT TAGS ON THIS DRAWING ARE INCOMPLETE. REFER TO P&IDS FOR COMPLETE TAG NUMBERS.



(Approximate Scale in Feet)



11-14-2019

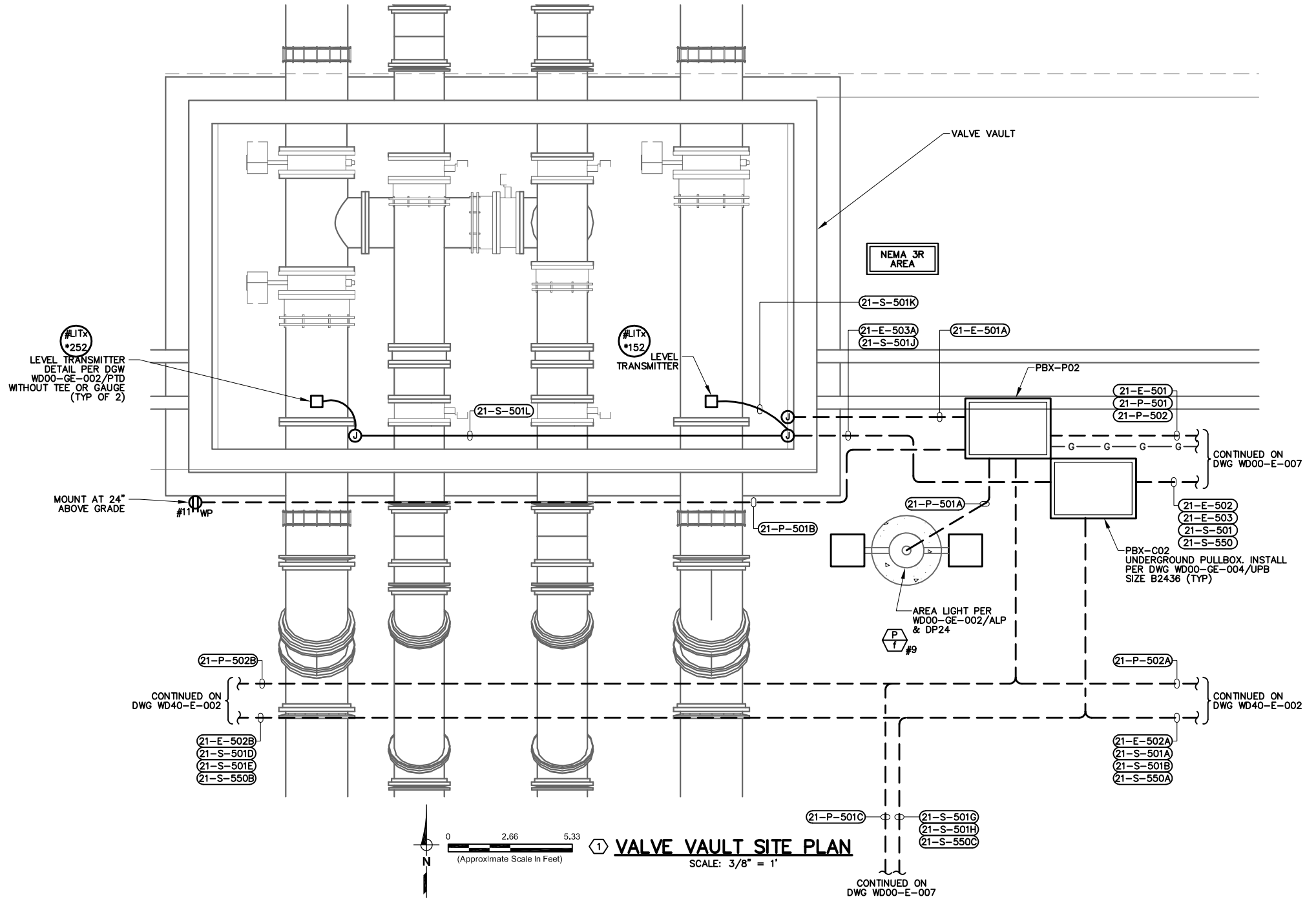
ELECTRICAL BLADDER TANK AREA ELECTRICAL PLAN	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA		WATERWORKS E N G I N E E R S 2260 Douglas Blvd, Suite 105 • Roseville, CA 95678 • 916-766-2588		FRISCH ENGINEERING, INC. CONSULTING ELECTRICAL ENGINEERS 13405 FOLSOM BLVD., UNIT 600 FOLSOM, CA 95690 PH 916 353 1925 WWW.FRISCHENGINEERING.COM	DESIGN	T. FRISCH
						DRAWN	M. YARBROUGH
						CHECKED	M. FRISCH
						APPROVED	M. FISHER
DATE: NOVEMBER 2019						FILE: 17-083-005.DWG	TIME: 1:11:34.4AM

ELECTRICAL PLAN NOTES:

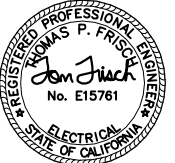
1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
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DRAWING REFERENCED NOTES:

- ① EQUIPMENT NUMBERS AND INSTRUMENT TAGS ON THIS DRAWING ARE INCOMPLETE. REFER TO P&IDS FOR COMPLETE TAG NUMBERS.



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PURPOSES ONLY,
NOT FOR
CONSTRUCTION



11-14-2019

DESIGN	T. FRISCH
DRAWN	M. YARBROUGH
CHECKED	M. FRISCH
APPROVED	M. FISHER

FRISCH ENGINEERING, INC.
13405 FOLEY BLVD., UNIT 600
FOLSOM, CA 95630
WWW.FRISCHENGINEERING.COM
FILE: 121 WD40E001.DWG
DATE: NOV 08, 2019 TIME: 11:14:13AM



CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
TANK AREA VALVE VAULT
ELECTRICAL PLAN

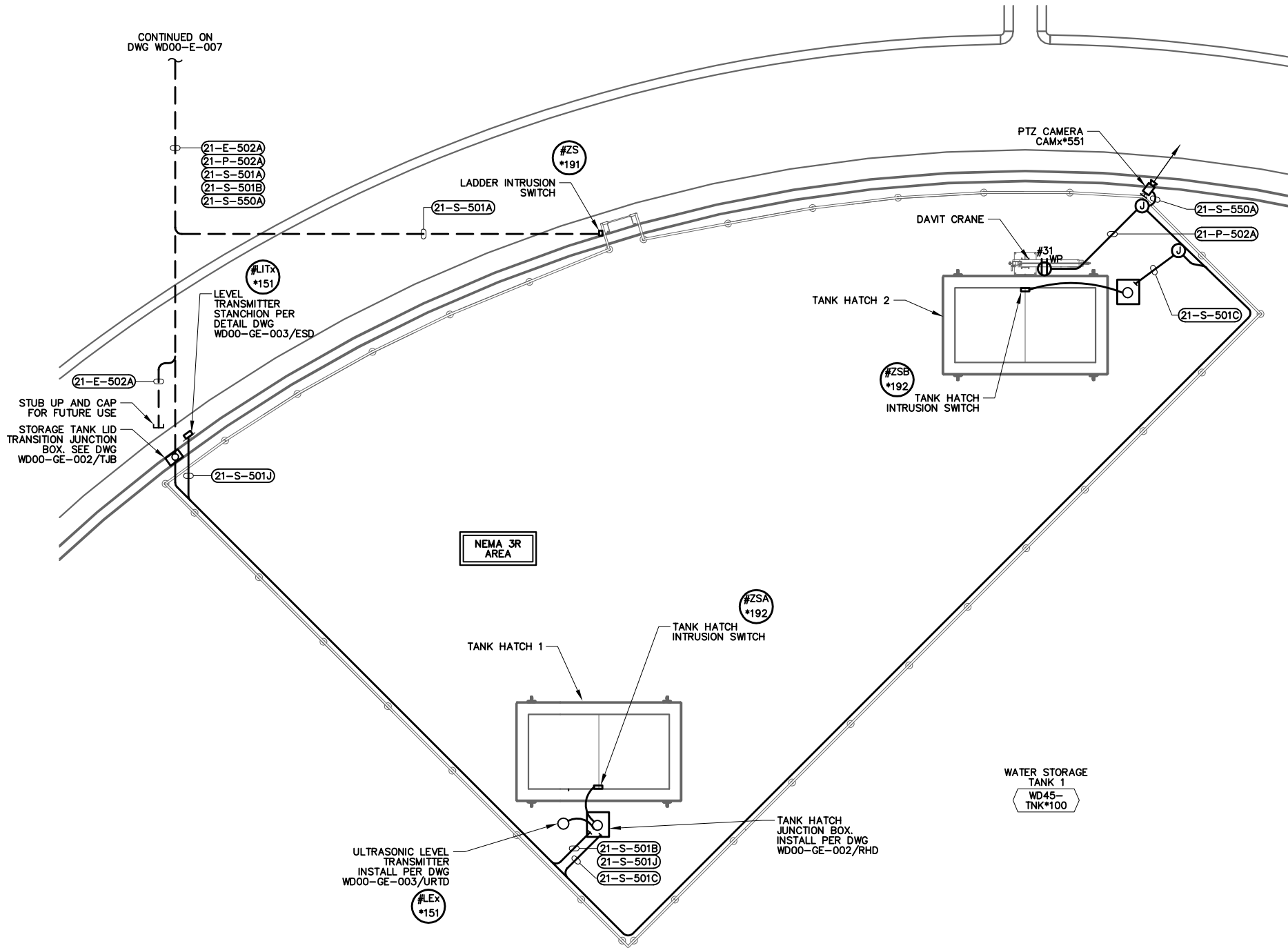
DATE	NOVEMBER 2019
PROJECT NUMBER	17-083
DRAWING NUMBER	WD40-E-001
SHEET NUMBER	136

ELECTRICAL PLAN NOTES:

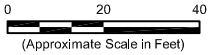
1. SEE ELECTRICAL SYMBOLS AND ABBREVIATIONS DRAWING FOR SYMBOL DEFINITION.
2. ALL WORK SHALL CONFORM TO LOCAL CODES AND NATIONAL ELECTRIC CODE.
3. SITEPLAN ACCURATE FOR ELECTRICAL WORK ONLY. COORDINATE WITH OTHER DISCIPLINES.
4. CONFIRM HOOKUP REQUIREMENTS FOR ELECTRICAL AND MECHANICAL EQUIPMENT PRIOR TO INSTALLING UNDERGROUND CONDUIT AND STUB-UPS. MISSING CONDUITS, INCORRECT SIZING, OR OTHER ISSUES MUST BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO BACKFILL.
5. CONDUIT ROUTING IS SHOWN GENERALLY DIAGRAMMATIC AND DOES NOT INDICATE TRENCH WIDTH OR TRENCH LAYOUT. FOR CONDUITS OUTSIDE BUILDINGS, IF CONTRACTOR WANTS TO RUN CONDUITS IN ROUTES OTHER THAN THOSE SHOWN FOR ANY REASON, THEN HE SHALL SUBMIT THE PLAN FOR APPROVAL PRIOR TO INSTALLATION. SPECIFY REASON FOR CHANGE.
6. INSTALL NON-UTILITY CONDUITS PER DRAWING DETAILS AND SPECIFICATIONS SECTION 16110.
7. CONDUITS SIZE, TYPE AND FILL DEFINED BY TAG NAME IN CONDUIT AND WIRE ROUTING SCHEDULE.
8. INSTALL UNDERGROUND CONDUITS PER ELECTRICAL DETAIL RCE.
9. CONDUIT TRANSITIONS SHALL BE PER EXPOSED CONDUIT TRANSITION DETAIL ECT.
10. EXPOSED CONDUIT TYPE AND FITTINGS TO BE USED ABOVE TRANSITION SHALL BE PER AREA CLASSIFICATION DEFINED IN CONDUIT SPECIFICATIONS AND EQUIPMENT SPECIFIC DETAIL.
11. REPAIR SURFACE TO PREVIOUS CONDITION FOR ALL UNDERGROUND CONDUIT ROUTES. GROUT, CAULK, AND PAINT ANY PENETRATIONS INTO STRUCTURES FOR WATERTIGHT SEAL.
12. USE SS EXPANSION WEDGE ANCHORS OR EPOXY ANCHORS AS NECESSARY FOR EQUIPMENT MOUNTING.
13. RECEPTACLES TO BE GROUND FAULT INTERRUPTER (GFI) TYPE AND WEATHERPROOF (WP) OUTDOORS AND WHERE SHOWN.

DRAWING REFERENCED NOTES:

- 1 EQUIPMENT NUMBERS AND INSTRUMENT TAGS ON THIS DRAWING ARE INCOMPLETE. REFER TO P&IDS FOR COMPLETE TAG NUMBERS.
- 2 CONDUITS AND EQUIPMENT MOUNTED TO TANK WALL SHALL BE PER DETAIL 15010A IN ORDER TO AVOID PRESTRESS STRANDS. SEE CIVIL DETAILS.



1 STORAGE TANK 1 HATCH PLAN
SCALE: 1" = 20'
(SIMILAR FOR TANK 2 HATCH PLAN)



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CONSTRUCTION



11-14-2019

CITY OF ROSEVILLE		ELECTRICAL	
WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)		STORAGE TANK TOP (TYPICAL) ELECTRICAL PLAN	
ROSEVILLE, CALIFORNIA		DATE: NOVEMBER 2019	
		PROJECT NUMBER 17-083	
		DRAWING NUMBER WD40-E-002	
		SHEET NUMBER 137	

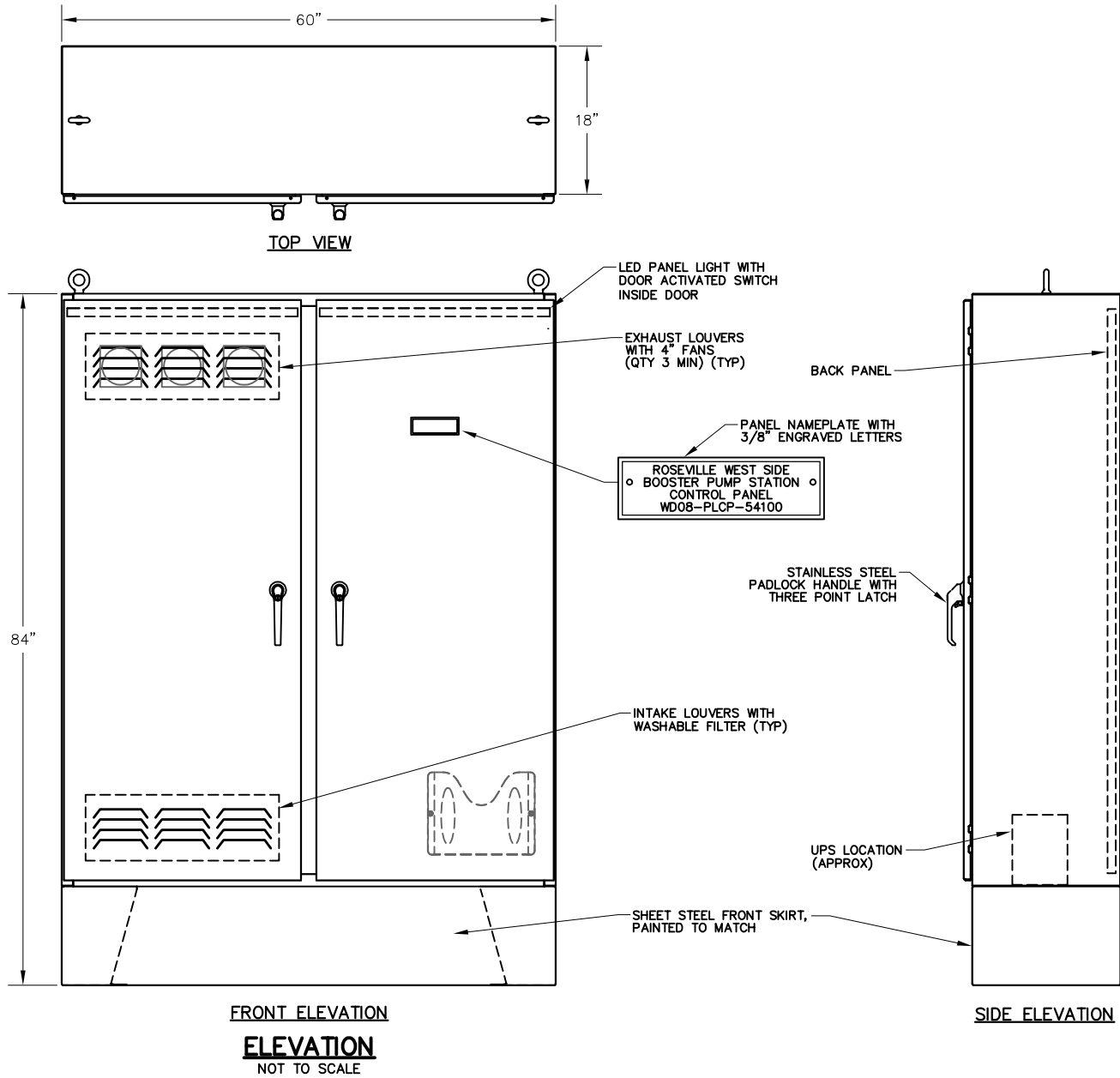
DESIGN	T. FRISCH
DRAWN	M. YARBROUGH
CHECKED	M. FRISCH
APPROVED	M. FISHER



**FRISCH
ENGINEERING, INC.**
13405 FOLESON BLVD., UNIT 600
FOLSOM, CA 95630
WWW.FRISCHENGINEERING.COM
FILE: 1.21.WD40E001.DWG
DATE: NOV 08, 2019 TIME: 11:14:21AM



WATERWORKS
ENGINEERS
2289 Douglas Blvd, Suite 105 • Roseville, CA 95678 • 916-780-2888



PANEL FABRICATION METHODS

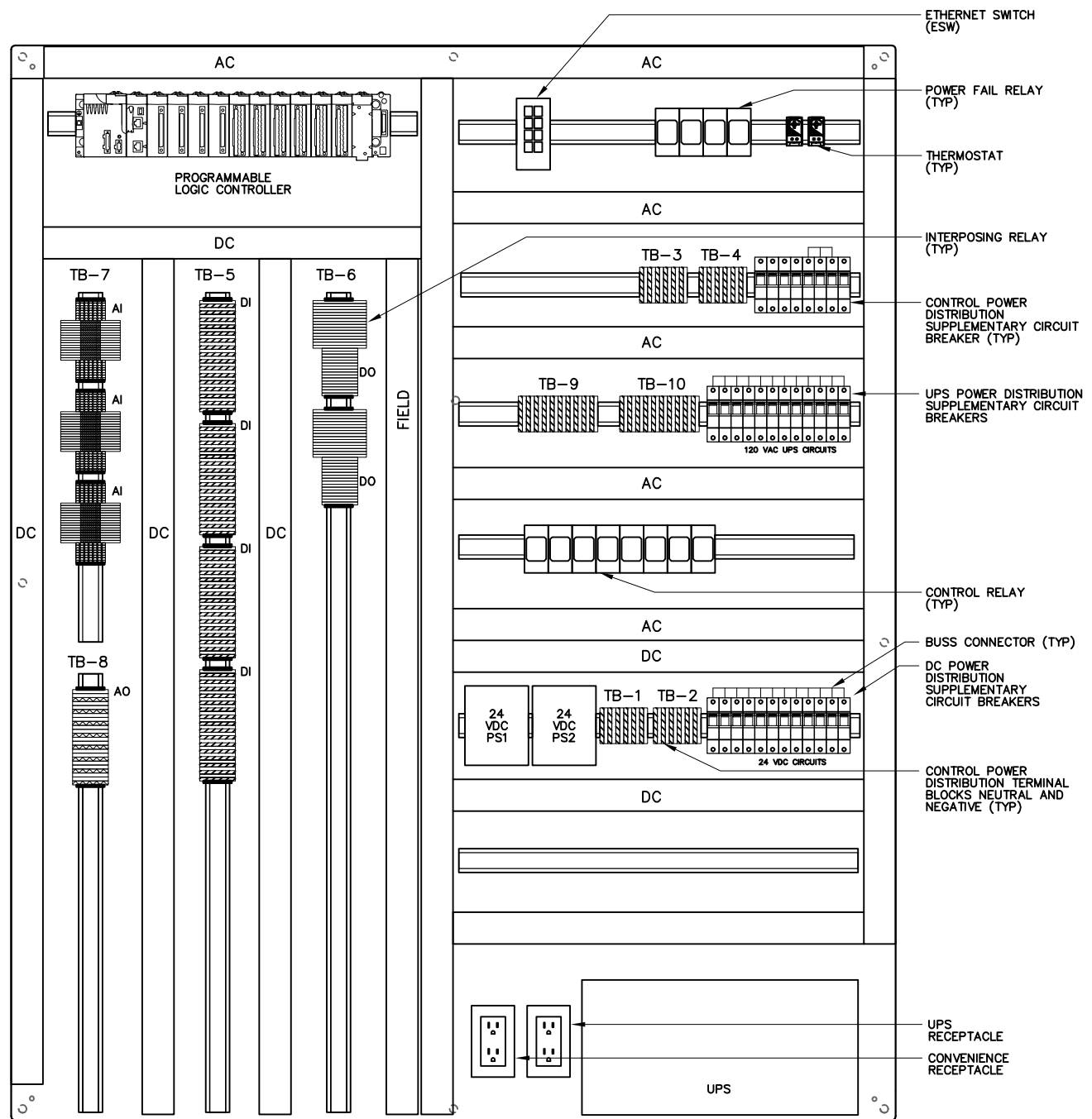
1. NEMA 12.
2. OUTER DOOR SEALED WITH RUBBERIZED FOAM GASKET.
3. PANEL SHALL BE FABRICATED FROM PAINT BOND GALVANEAL SHEET STEEL.
4. 12 GAUGE EXTERIOR AND 14 GAUGE INTERIOR.
5. ALL SEAMS SHALL HAVE CONTINUOUS WELD GROUND SMOOTH.
6. DOOR TO BE PADLOCKABLE WITH HEAVY DUTY 3 POINT LATCH.
7. DOOR HINGES AND PINS SHALL BE CONTINUOUS, HEAVY DUTY.
8. NO SCREWS, RIVETS, OR BOLTS SHALL PROTRUDE EXTERNALLY.
9. INTERNAL SCREWS, RIVETS, BOLTS, AND NUTS SHALL BE MACHINE THREAD INTO TAPPED BACKPAN.
10. EXTERIOR PANEL COLOR: ANSI 61 GRAY.
11. MOUNTING PAN AND INTERIOR DOOR COLOR: WHITE.
12. FABRICATION AND WIRING SHALL CONFORM TO U.L. AND NEMA STANDARDS.
13. ALL WIRING SHALL BE PERMANENTLY LABELED WITH WIRE MARKERS ON BOTH ENDS.
14. WIRING DIAGRAMS SHALL BE PLACED IN A PLASTIC DRAWING HOLDER PERMANENTLY ATTACHED TO THE INSIDE OF THE FRONT DOOR.
15. AS - BUILT WIRING DIAGRAMS SHALL BE SHIPPED WITH EQUIPMENT.
16. SAGINAW ENVIROLINE TYPE 12 FLOOR MOUNT, OR EQUAL.

GENERAL NOTES:

1. REPRESENTATIVE OF MAJOR COMPONENTS ONLY. ACTUAL BACKPAN LAYOUT SHALL BE SIMILAR TO LAYOUT SHOWN. SUBMIT SCALED BACKPAN LAYOUT FOR REVIEW BY ENGINEER.
2. QUANTITY OF TERMINAL BLOCKS AND RELAYS SHALL BE AS DETERMINED BY P&IDS AND EXAMPLE I/O WIRING DIAGRAM

LAYOUT REFERENCED NOTES:

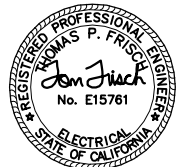
- ① WIRE I/O TO TERMINAL BLOCK PER EXAMPLE I/O WIRING DIAGRAMS.



BACKPAN LAYOUT ①

NOT TO SCALE

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NOT FOR
CONSTRUCTION



11-14-2019

DESIGN T. FRISCH
DRAWN M. YARBROUGH
CHECKED M. FRISCH
APPROVED M. FISHER

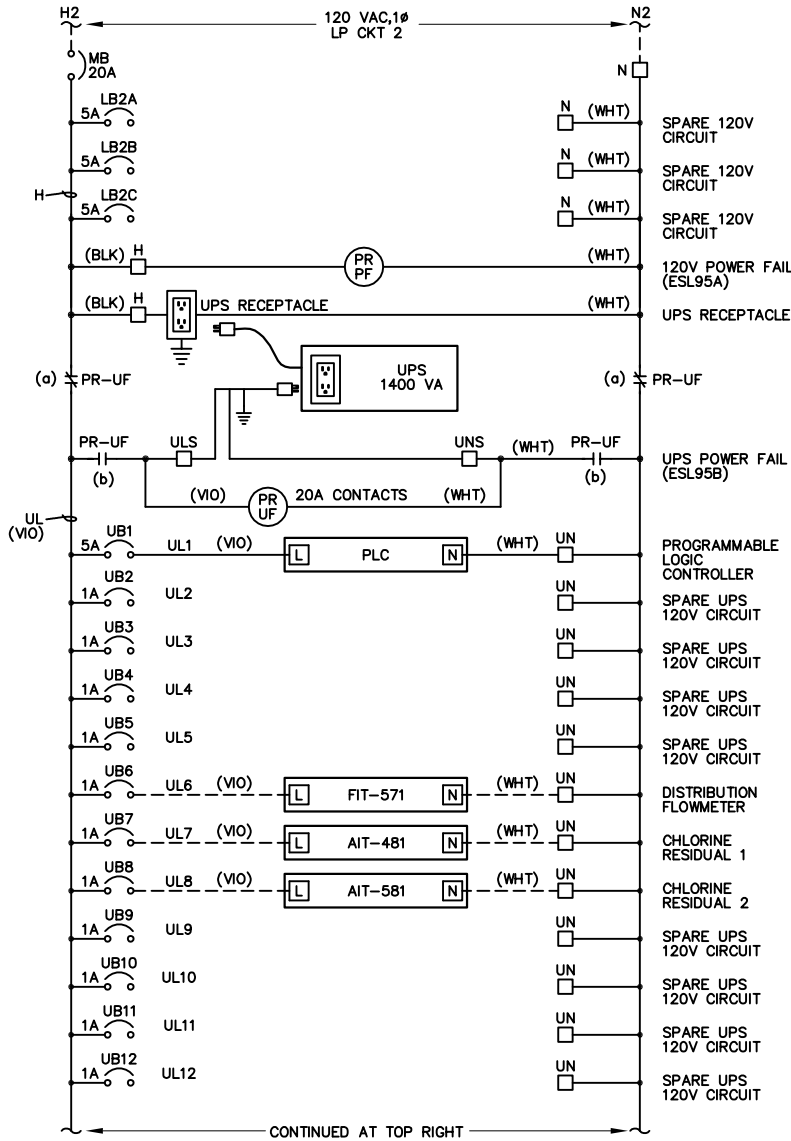
FRISCH ENGINEERING, INC.
13405 FOLESON BLVD., UNIT 600
FOLSOM, CA 95630
WWW.FRISCHENGINEERING.COM
FILE: 130 WD201001.DWG
DATE: NOV 08, 2019 TIME: 11:15:12AM

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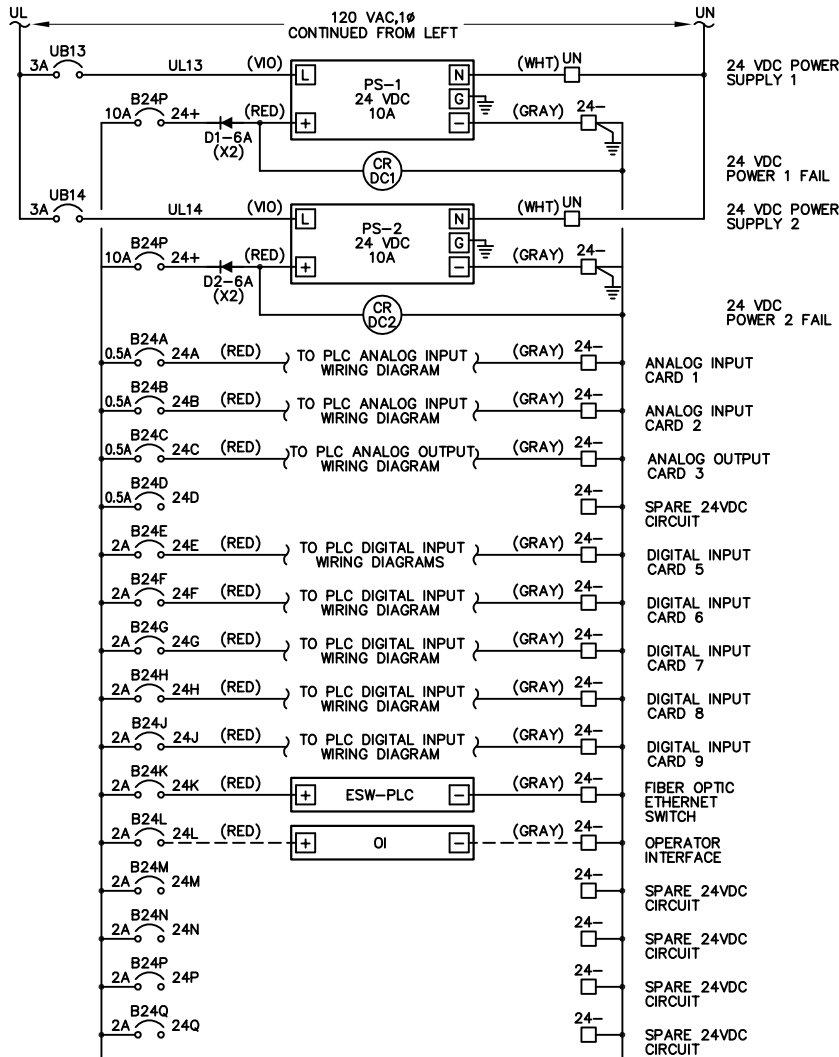
CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
CONTROL PANEL ELEVATION
AND BACKPAN LAYOUT

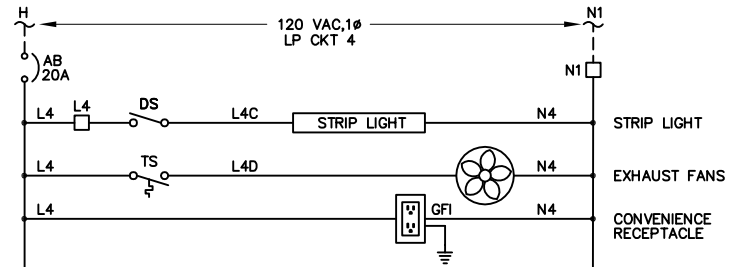
DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD20-I-001
SHEET NUMBER 138



POWER DISTRIBUTION DIAGRAM

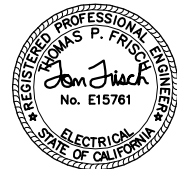


POWER DISTRIBUTION DIAGRAM - CONTINUED



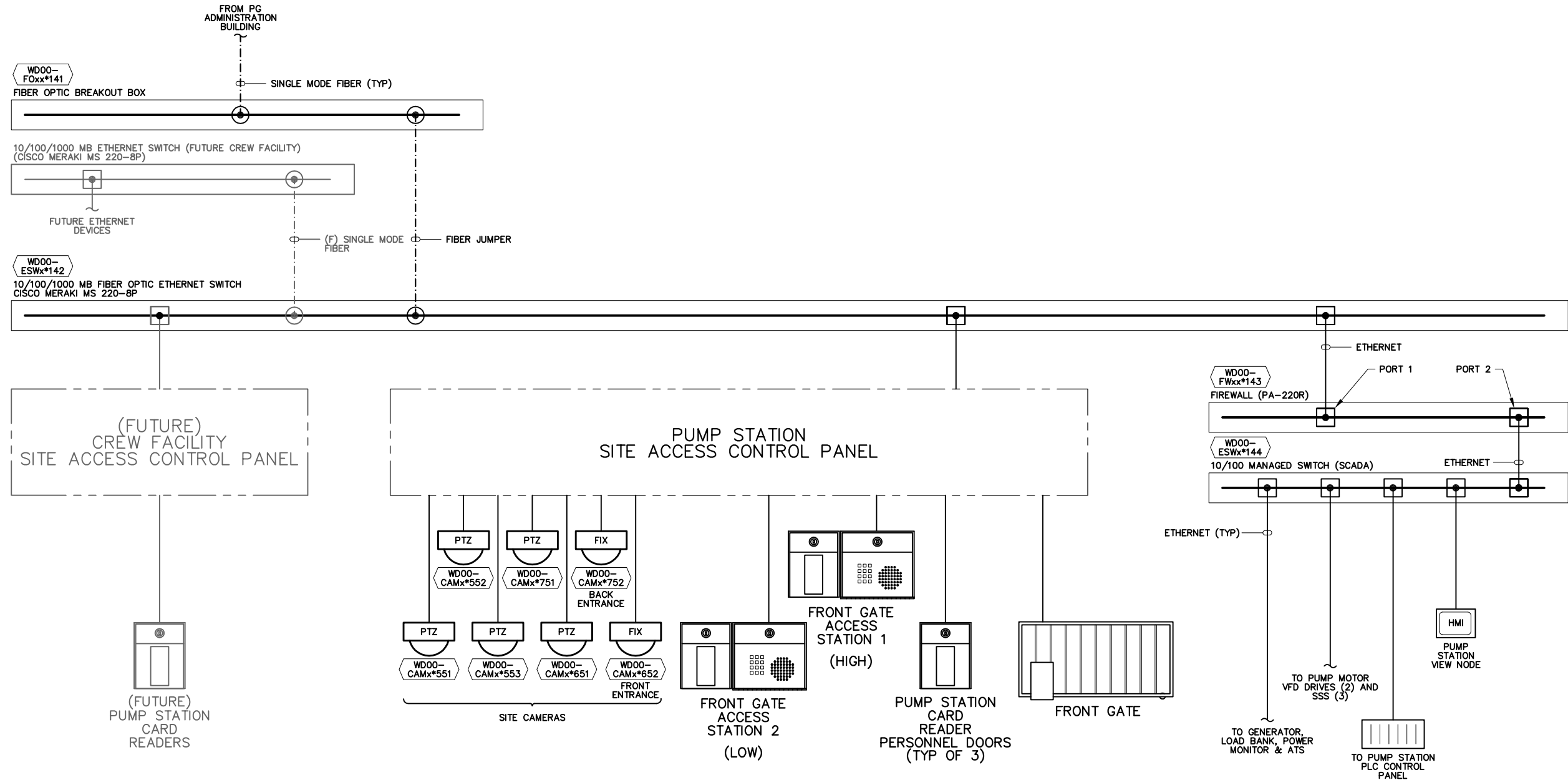
AUXILIARY POWER DIAGRAM

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11-14-2019

DESIGN T. FRISCH	FRISCH ENGINEERING, INC. 13405 FOLESBY BLVD., UNIT 600 FOLSOM, CA 95630 WWW.FRISCHENGINEERING.COM FILE: 131_WD201002.DWG DATE: NOV 08, 2019 TIME: 11:15:23AM	WATERWORKS ENGINEERS 2260 Douglas Blvd. Suite 105 • Roseville, CA 95678 • 916-790-2688	CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA	ELECTRICAL CONTROL PANEL POWER DISTRIBUTION DIAGRAMS	DATE NOVEMBER 2019
DRAWN M. YARBROUGH					PROJECT NUMBER 17-083
CHECKED M. FRISCH					DRAWING NUMBER WD20-I-002
APPROVED M. FISHER					SHEET NUMBER 139



LEGEND	
SYMBOL	DESCRIPTION
	PLC CONTROL PANEL
	OPERATOR INTERFACE LOCAL TOUCHSCREEN PANEL
	FIXED POSITION CAMERA
	PAN/TILT/ZOOM CAMERA
	FIBER OPTIC LC SFP MODULE GIGABIT CONNECTION
	ETHERNET CONNECTION
	BNC CONNECTION
	NETWORK CONNECTION
	ETHERNET UNLESS OTHERWISE NOTED
	FIELD ETHERNET UNLESS OTHERWISE NOTED
	FIBER OPTIC

DESIGN
T. FRISCH

DRAWN
M. YARBROUGH

CHECKED
M. FRISCH

APPROVED
M. FISHER

FRISCH ENGINEERING, INC.
13405 FOLEY BLVD., UNIT 600
FOLSOM, CA 95630
WWW.FRISCHENGINEERING.COM
DATE: NOV 08, 2019 TIME: 11:15:35AM

WATERWORKS
ENGINEERS

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CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

ELECTRICAL
COMMUNICATION BLOCK DIAGRAM

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD20-I-003
SHEET NUMBER 140

COMMUNICATION BLOCK DIAGRAM

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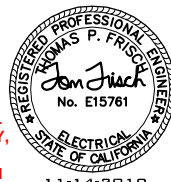
REGISTERED PROFESSIONAL ENGINEER
THOMAS P. FRISCH
No. E15761
ELECTRICAL
STATE OF CALIFORNIA
11-14-2019

P&ID ABBREVIATIONS					
INSTRUMENTATION SYMBOLS					
FIRST LETTER		SUCCEEDING LETTERS			
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	CONDUCTIVITY			CONTROLLER	
D	DENSITY	DIFFERENTIAL			
E	VOLTAGE		SENSOR, PRIMARY ELEMENT		
F	FLOW	RATIO			
G	GENERAL		GLASS VIEWING DEVICE		
H	HAND				HIGH, OPENED
I	CURRENT		INDICATING, INDICATOR		
J	POWER	SCAN			
K	TIME, TIME SCHEDULED	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW, CLOSED
M	MOISTURE	MOMENTARY			MIDDLE
N	STATUS		STATUS	USER'S CHOICE	USER'S CHOICE
O	OPERATOR		ORIFICE, RESTRICTION		
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RESET		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMITTER	TEST
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION			VALE, DAMPER, LOUVER	
W	WEIGHT		WELL		
X	SWITCH	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OF PRESENCE	Y AXIS		RELAY, COMPUTER, CONVERTER	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

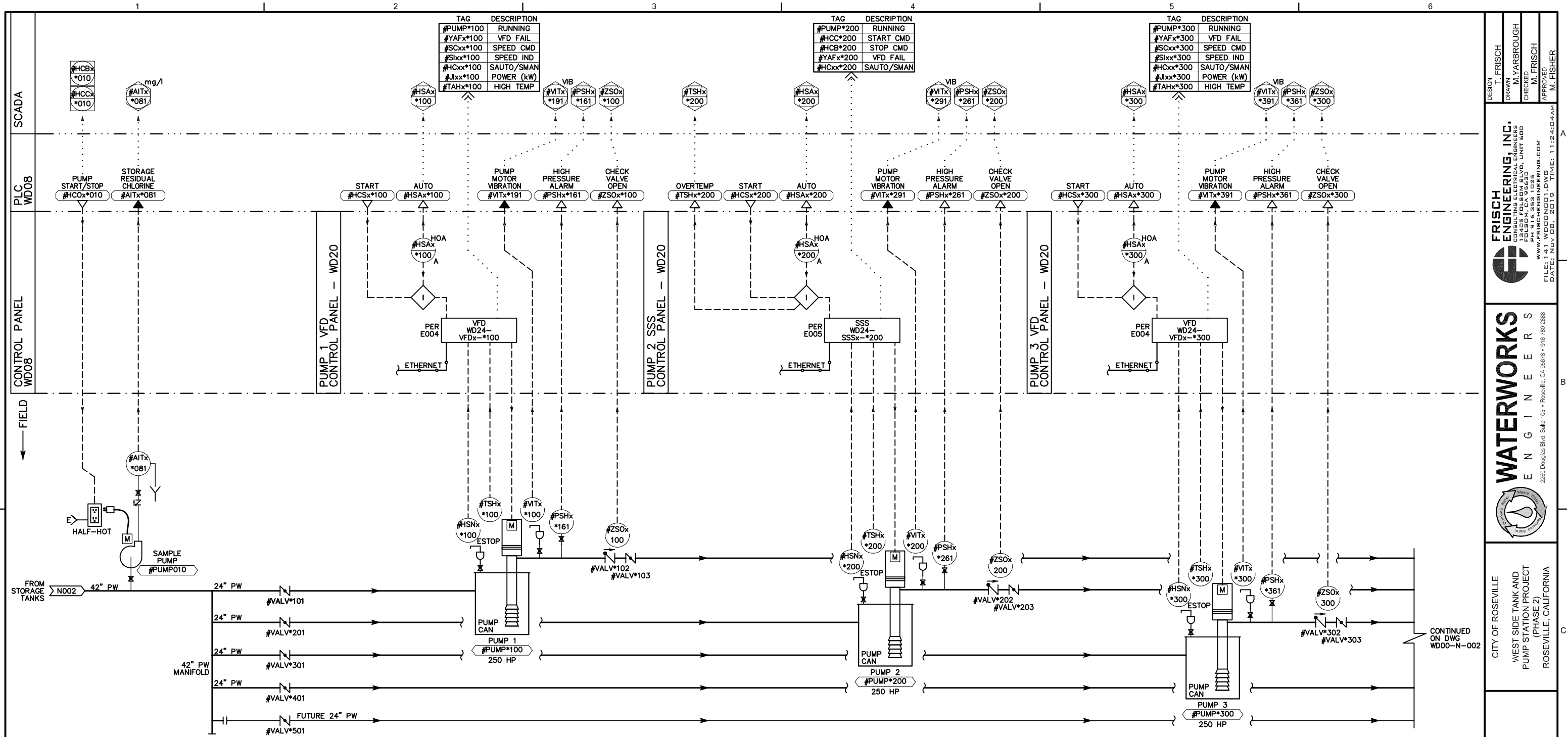
P&ID ABBREVIATIONS			
SWITCH IDENTIFIER			
F/R	FORWARD/REVERSE	OPN	OPEN
HOA	HAND-OFF-AUTO	CLS	CLOSE
LOS	E-STOP / EMERGENCY STOP	SEL	SELECTOR
L/R	LOCAL / REMOTE	S/S	START / STOP
LOA	LOCAL-OFF-AUTO	%	PERCENT ADJUSTMENT
OCA	OPEN-CLOSE-AUTO		
O/C	OPEN / CLOSE		
O/O	ON / OFF		

P&ID SYMBOLS							
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ISA SYMBOLS		VALVES		PUMPS		MISCELLANEOUS MECHANICAL ITEMS	
	FIELD MOUNTED INSTRUMENT		GATE VALVE		CENTRIFUGAL PUMP OR BLOWER		PIPE REDUCER
	INSTRUMENT MOUNTED ON DOOR OF LOCAL PANEL, OPERATOR ACCESSIBLE		CHECK VALVE		SUBMERSIBLE SEWAGE PUMP		RUPTURE DISC
	INSTRUMENT MOUNTED ON DOOR OF FIELD PANEL, OPERATOR ACCESSIBLE		PLUG VALVE		BALL VALVE		PRESSURE OR VACUUM RELIEF VALVE
	INSTRUMENT MOUNTED WITHIN PANEL, OPERATOR INACCESSIBLE		BALL CHECK VALVE		BUTTERFLY VALVE		DIAPHRAGM SEAL
	INSTRUMENT MOUNTED WITHIN FIELD PANEL, OPERATOR INACCESSIBLE		ANGLE VALVE		VERTICAL TURBINE PUMP OR WELL PUMP		ANNULAR SEAL
	OPERATION PERFORMED WITH LOGIC OR HARDWIRED DEVICES		NEEDLE VALVE		SUBMERSIBLE WELL PUMP		DRAIN TO WASTE
	ASSOCIATED MOTOR CONTROL ELEMENTARY IF APPLICABLE		RELIEF VALVE		DIAPHRAGM VALVE		MIXER
	VISUAL DISPLAY OF PLC ANALOG REGISTER SCALE TO UNITS AS SHOWN		3-WAY VALVE		GEAR PUMP		FILTER
	VISUAL DISPLAY OF PLC ANALOG ALARM REGISTER		FLOW CONTROL VALVE		POSITIVE DISPLACEMENT PUMP OR BLOWER		VENT W/CAP OR SCREEN
	VISUAL DISPLAY OF PLC DIGITAL REGISTER		PINCH VALVE		DIAPHRAGM PUMP		FLEXIBLE HOSE OR TUBING
	VISUAL DISPLAY OF PLC DIGITAL ALARM REGISTER		SOLENOID VALVE (2-WAY) (S FOR MOTORIZED VALVE)		PERISTALTIC PUMP		SPRAY NOZZLE SYSTEM
	TAG DESCRIPTION		SOLENOID VALVE (3-WAY) (S FOR MOTORIZED VALVE)		MOTOR		EXPANSION JOINT
	PLC I/O TAG		SOLENOID VALVE (4-WAY) (S FOR MOTORIZED VALVE)		PROGRESSIVE CAVITY PUMP		STATIC MIXER
	PLC DIGITAL INPUT		PNEUMATIC DIAPHRAGM CONTROL VALVE		SENSORS		EJECTOR / EDUCTOR
	PLC DIGITAL OUTPUT		PRESSURE SUSTAINING VALVE		ORIFICE PLATE		HOSE COUPLING
	ANALOG INPUT		PRESSURE REGULATING VALVE		MAGNETIC FLOWMETER		PULSATION DAMPENER
	ANALOG OUTPUT		MULTIFUNCTION VALVE		DENSITY METER		OMNI ANTENNA NON-DIRECTIONAL
	AUDIBLE ALARM (BUZZER OR HORN)		SLUICE GATE (SG) OR SLIDE GATE (SLG)		ULTRASONIC FLOWMETER		YAGI ANTENNA DIRECTIONAL
	LAMP INDICATION COLOR DENOTED BY "X" RED, BLU, GRN, WHT, AMBER		AIR RELIEF VALVE (ARV)		TURBINE OR PROPELLER METER		PRESSURE INDICATOR
	CONTINUATION TAG FROM ONE AREA TO ANOTHER AREA OF DIFFERENT DRAWINGS "X" TAG IDENTIFIER TO POINT ON DRAWING NUMBER XXXX.		FLOAT VALVE		VENTURI TUBE		
	CONTINUED ON DWG I-X		STRAINER		THERMAL DISPERSION FLOWMETER OR SWITCH		
	LINE TYPES		BACKFLOW PREVENTER		PADDLE WHEEL FLOWMETER		
	PRIMARY PROCESS LINE		CALIBRATION VALVE		ULTRASONIC LEVEL TRANSMITTER (FLOW IF OVER FLUME OR WEIR)		
	SECONDARY PROCESS LINE		CALIBRATION COLUMN		CONDUCTANCE TYPE LEVEL ELEMENTS		
	ELECTRICAL SIGNAL LINE (DIGITAL OR ANALOG)		ROTAMETER		RADAR TYPE LEVEL TRANSMITTER		
	SOFTWARE OR DATA LINK		UNION		GUIDED OPTION		
	BOUNDARY OF EQUIPMENT PACKAGE SYSTEM		ACTUATORS		CAPACITANCE TYPE LEVEL TRANSMITTER		
	COMMUNICATION CONNECTION		MOTORIZED SOLENOID				
			PNEUMATIC OPERATOR S: SOLENOID - OPEN/CLOSE A: POSITIONER - MODULATING				

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DESIGN T. FRISCH	DRAWN M. YARBROUGH	CHECKED M. FRISCH	APPROVED M. FISHER
FRISCH ENGINEERING, INC. 13405 FOLESON BLVD., UNIT 600 FOLSOM, CA 95630 WWW.FRISCHENGINEERING.COM FILE: 140 WD00GN001.DWG DATE: NOV 08, 2019 TIME: 11:23:53AM			
CITY OF ROSEVILLE WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2) ROSEVILLE, CALIFORNIA			
INSTRUMENTATION SYMBOLS AND ABBREVIATIONS P&ID			
DATE NOVEMBER 2019			
PROJECT NUMBER 17-083			
DRAWING NUMBER WD00-GN-001			
SHEET NUMBER 142			



BOOSTER PUMPS SHEET 1

TAG CONVENTION

EACH EQUIPMENT AND INSTRUMENT TAG NUMBER SHALL BE CONSTRUCTED PER THE TAG EXAMPLE SHOWN AT RIGHT.

FOR THIS SHEET REPLACE:

"#" WITH "WD24_" (FACILITY/SYSTEM/SUB-SYSTEM)

"*" WITH "_54" (REMOTE STATION DESIGNATOR)

TAG EXAMPLE

FACILITY - (WATER DISTRIBUTION)
SYSTEM - (DISTRIBUTION)
SUB-SYSTEM - (PRODUCT CONVEYANCE)
FUNCTION
MODIFIER
REMOTE STATION DESIGNATOR
PRIMARY EQUIPMENT
EQUIPMENT / INSTRUMENT ID NUMBER (PER PLAN)

WD24_PSHx_54 4 20

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CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
THOMAS P. FRISCH
No. E15761
ELECTRICAL
STATE OF CALIFORNIA

DATE
NOVEMBER 2019
PROJECT NUMBER
17-083
DRAWING NUMBER
WD00-N-001
SHEET NUMBER 143

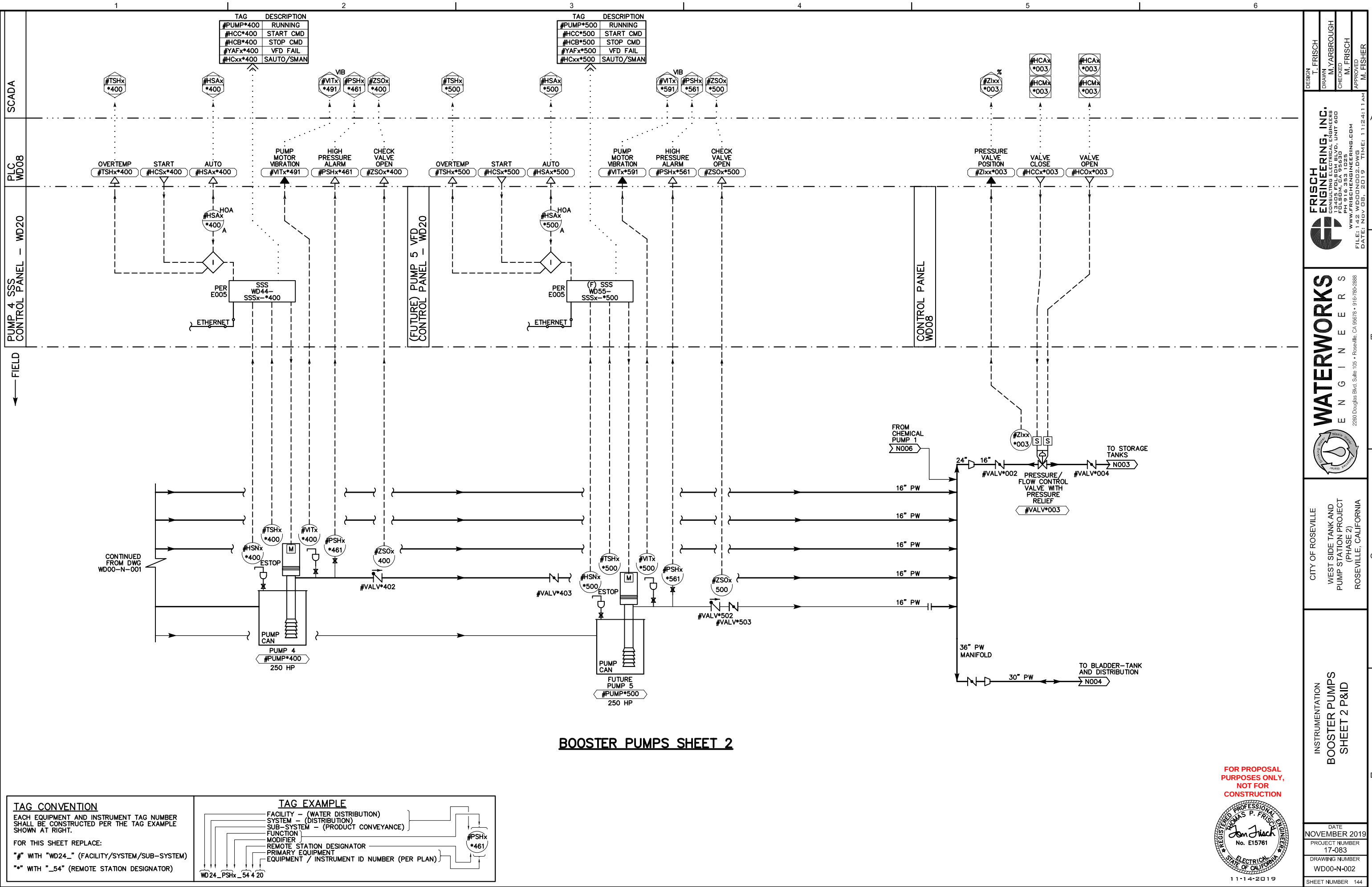
DESIGN: T. FRISCH
DRAWN: M. YARBROUGH
CHECKED: M. FRISCH
APPROVED: M. FISHER

FRISCH ENGINEERING, INC.
13405 FOLESBY BLVD., UNIT 600
FOLSOM, CA 95630
WWW.FRISCHENGINEERING.COM
FILE: 1.41 WD00N001.DWG
DATE: NOV 08, 2019 TIME: 11:24:04AM

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ENGINEERS
2260 Douglas Blvd. Suite 105 • Roseville, CA 95678 • 916-790-2688

CITY OF ROSEVILLE
WEST SIDE TANK AND
PUMP STATION PROJECT
(PHASE 2)
ROSEVILLE, CALIFORNIA

INSTRUMENTATION
BOOSTER PUMPS
SHEET 1 P&ID



DESIGN T. FRISCH

DRAWN M. YARBROUGH

CHECKED M. FRISCH

APPROVED M. FISHER

FRISCH ENGINEERING, INC.

13405 FOLESBY BLVD., UNIT 600

FOLSOM, CA 95630

WWW.FRISCHENGINEERING.COM

FILE: 1142 WD00N002.DWG

DATE: NOV 08, 2019

TIME: 11:24:11 AM

WATERWORKS ENGINEERS

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CITY OF ROSEVILLE

WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)

ROSEVILLE, CALIFORNIA

INSTRUMENTATION

BOOSTER PUMPS

SHEET 2 P&ID

DATE NOVEMBER 2019

PROJECT NUMBER 17-083

DRAWING NUMBER WD00-N-002

SHEET NUMBER 144

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REGISTERED PROFESSIONAL ENGINEER

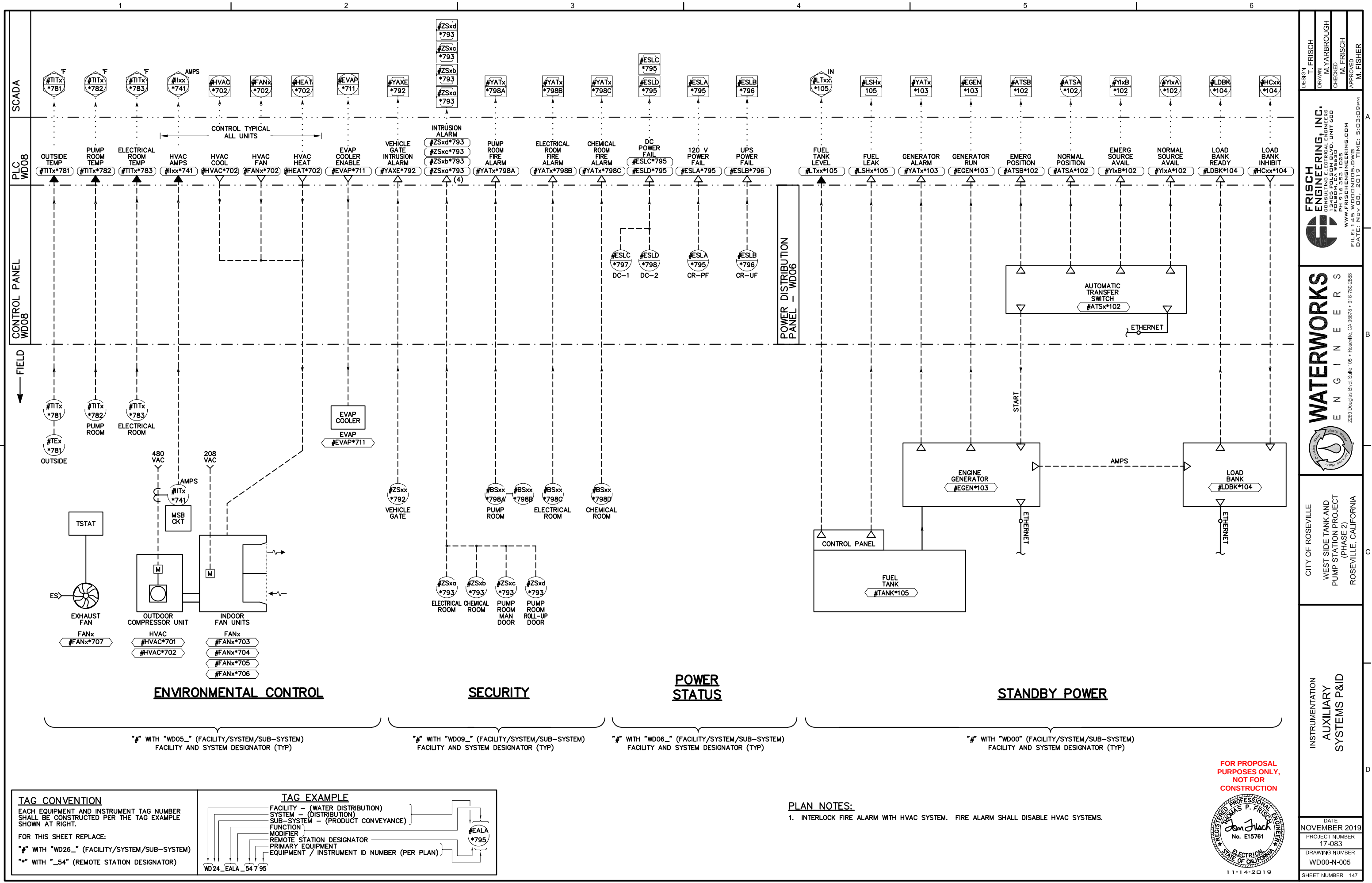
THOMAS P. FRISCH

No. E15761

ELECTRICAL

STATE OF CALIFORNIA

11-14-2019



TAG CONVENTION

EACH EQUIPMENT AND INSTRUMENT TAG NUMBER SHALL BE CONSTRUCTED PER THE TAG EXAMPLE SHOWN AT RIGHT.

FOR THIS SHEET REPLACE:

"#" WITH "WD26_" (FACILITY/SYSTEM/SUB-SYSTEM)

"*" WITH "_54" (REMOTE STATION DESIGNATOR)

TAG EXAMPLE

FACILITY - (WATER DISTRIBUTION)

SYSTEM - (DISTRIBUTION)

SUB-SYSTEM - (PRODUCT CONVEYANCE)

FUNCTION

MODIFIER

REMOTE STATION DESIGNATOR

PRIMARY EQUIPMENT

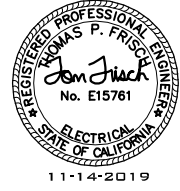
EQUIPMENT / INSTRUMENT ID NUMBER (PER PLAN)

WD24_EALA_54795

PLAN NOTES:

1. INTERLOCK FIRE ALARM WITH HVAC SYSTEM. FIRE ALARM SHALL DISABLE HVAC SYSTEMS.

FOR PROPOSAL
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CONSTRUCTION



DESIGN: T. FRISCH

DRAWN: M. YARBROUGH

CHECKED: M. FRISCH

APPROVED: M. FISHER

FRISCH ENGINEERING, INC.

13405 FOLESDEN BLVD., UNIT 600
FOLSOM, CA 95630
WWW.FRISCHENGINEERING.COM
FILE: 145 WD00N005.DWG
DATE: NOV 08, 2019 TIME: 5:03:09PM

WATERWORKS ENGINEERS

2260 Douglas Blvd., Suite 105 • Roseville, CA 95678 • 916-790-2688

CITY OF ROSEVILLE

WEST SIDE TANK AND PUMP STATION PROJECT (PHASE 2)

ROSEVILLE, CALIFORNIA

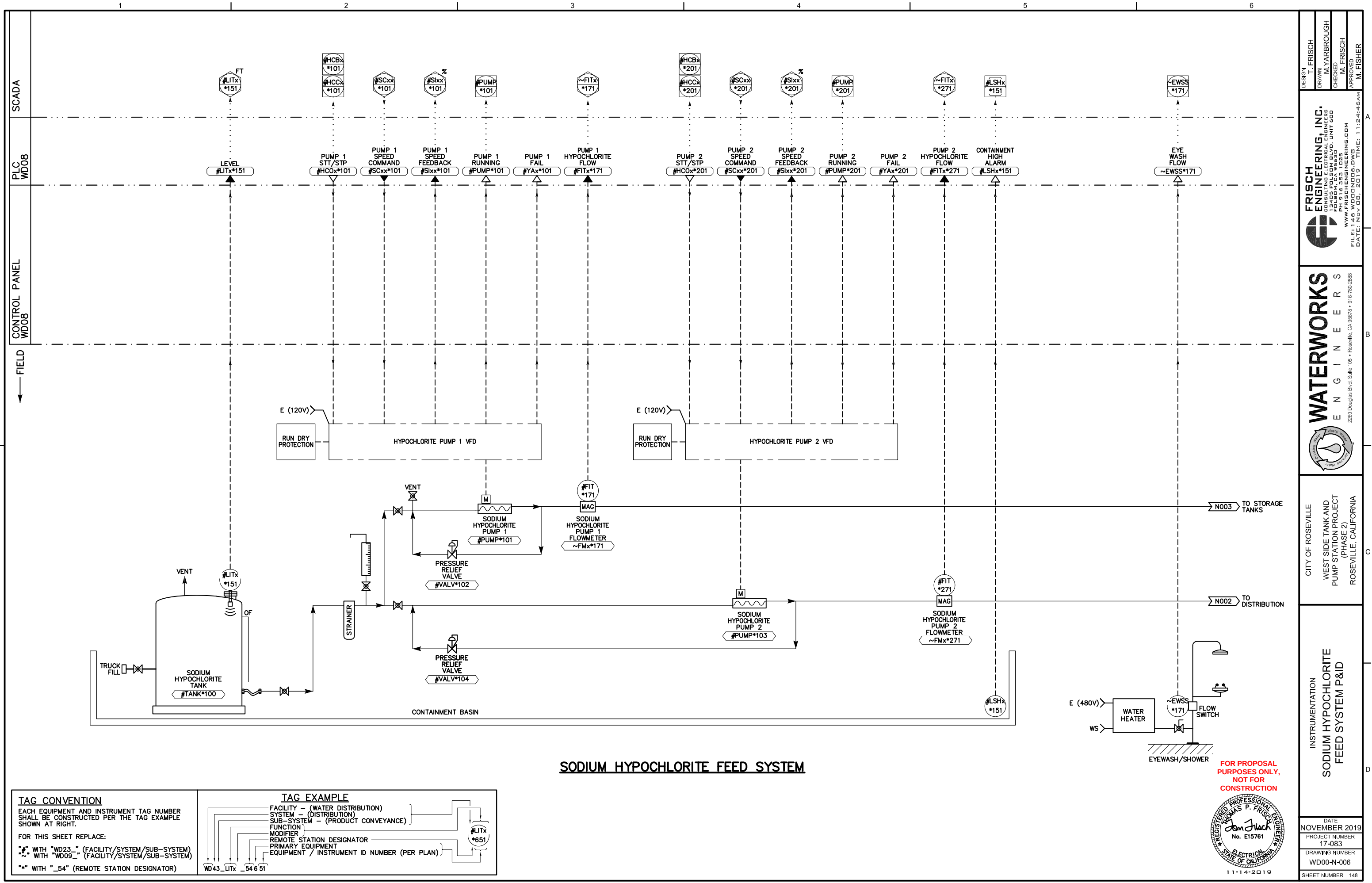
INSTRUMENTATION AUXILIARY SYSTEMS P&ID

DATE: NOVEMBER 2019

PROJECT NUMBER: 17-083

DRAWING NUMBER: WD00-N-005

SHEET NUMBER: 147



ORDINANCE NO. 6219

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20
BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY
EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2019-20, is hereby amended by transferring appropriation to and from the activities indicated below:

Appropriate funds for the West Side Tanks and Pump Station Project, per request of the Environmental Utilities Department, as listed on the attached Request for Budget Adjustment in the amount of \$3,801,046.

SECTION 2. This ordinance is hereby declared to be an appropriation measure, immediately effective pursuant to the provisions of Section 5.03 of the Charter.

SECTION 3. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the ordinance book, under the record of the ordinance, a certificate under her hand stating the time and place of such publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville, this
_____ day of _____, 2019, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



DEPARTMENT/DIVISION: EU/Water ORDINANCE:

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6120	6587	84001	400014	3,801,046	Construction and contingency
6120	5080	84001	400014	483,840	Secondary Labor - charged to project from EU Tech Services
6101	5980	74188	000000	(186,624)	Secondary Labor - reimburse EU Tech Services/Water
6201	5980	74388	000000	(186,624)	Secondary Labor - reimburse EU Tech Services/Wastewater
6301	5980	74288	000000	(41,472)	Secondary Labor - reimburse EU Tech Services/Waste Services
6201	5980	74335	000000	(69,120)	Secondary Labor - reimburse Wastewater Maintenance (SCADA)
TOTAL				3,801,046	

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
TOTAL				-	

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6120				(4,284,886)	Reduce available resources - Water Construction Fund
6101				186,624	Increase available resources - Water Ops Fund
6201				255,744	Increase available resources - Wastewater Ops Fund
6301				41,472	Increase available resources - Solid Waste Ops Fund
TOTAL				(3,801,046)	

The West Side Tank and Pump Station project (400014), with a remaining budget of \$22,028,384 in the Water Construction Fund, requires an additional \$4,284,886 to fully-fund the expenses for a new construction agreement (\$23,481,300), a 10% contingency (\$2,348,130), and related secondary labor for EU Technical Services and SCADA staff (\$483,840).

		REQUIRED APPROVALS:		Scott Pettingell		Digitally signed by Scott Pettingell Date: 2020.04.10 13:33:39 -07'00'	
REQUESTING DEPARTMENT HEAD / DESIGNEE		DATE		BUDGET MANAGER / DESIGNEE		DATE	
Dennis Kauffman		4/9/20		Digitally signed by Dennis Kauffman Date: 2020.04.10 13:49:40 -07'00'			
CHIEF FINANCIAL OFFICER / DESIGNEE		DATE		CITY MANAGER / DESIGNEE		DATE	
BUDGET DEPARTMENT USE ONLY:							
POSTED BY		DATE					



COUNCIL COMMUNICATION

CC #: 0717
File #: 0201-01

Title: Homeland Security Grant - Budget Adjustment
Contact: Shelly Bracco 916-774-5018 sbracco@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.30.

RECOMMENDATION TO COUNCIL

Recommend City Council adopt an ordinance approving a budget adjustment associated with funding from the Homeland Security Grant Program.

BACKGROUND

Congress, through the Federal Department of Homeland Security, periodically allocates funds for local security and preparedness needs. Sometimes the allocations are based on population, and sometimes they are based on identified local risks. The funds are distributed first to the states, and the states distribute them to counties. In each county an Approval Authority, comprised of the public health officer, the sheriff, a city police chief, a county fire agency representative and a city fire agency representative, prioritizes needs and allocates funds for specific items. Placer County's Office of Emergency Services (OES) administers the grants, files claims for reimbursement from the federal government, and then distributes the reimbursements to local agencies. In many instances the County OES gives us a very short window to make the necessary purchases with the approved funds, as some funding is left over from previous grant years and needs to be expended immediately.

The Police Department was recently given approval to purchase Chemical, Biological, Radiological and Nuclear (CBRN) gas masks and filters, which serve as protection against Chemical, Biological, Radiological and Nuclear agents. The department has an immediate need to purchase masks to fit all new sworn staff and to replace old filters.

FISCAL IMPACT

The budget adjustment will add \$8,600 to the police department budget for the purchase of new gas masks and replacement filters. The City will later be reimbursed for the purchases by Federal Homeland Security funds administered by Placer County OES. There will be no net fiscal impact on the City.

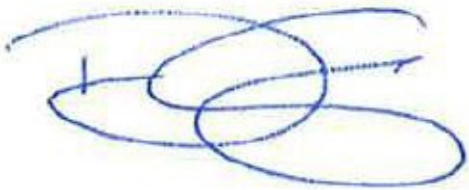
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. A budget adjustment meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Shelly Bracco, Administrative Analyst

James Maccoun, Police Chief



Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance No. 6212

Signed Budget Adjustment Finance

ORDINANCE NO. 6212

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20
BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY
EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2019-20, is hereby amended by transferring appropriation to and from the activities indicated below:

Appropriate funds for Homeland Security Grant award funds, per the request of the Police Department, as listed on the attached Request for Budget Adjustment in the amount of \$8,600.

SECTION 2. This ordinance is hereby declared to be an appropriation measure, immediately effective pursuant to the provisions of Section 5.03 of the Charter.

SECTION 3. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the ordinance book, under the record of the ordinance, a certificate under her hand stating the time and place of such publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville, this
_____ day of _____, 2020, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITLE: Shelly Bracco/ Administrative Analyst FISCAL YEAR: 2020
 PREPARER NAME & TITLE: Shelly Bracco/ Administrative Analyst COUNCIL DATE (if applicable): 5.6.2020
 DEPARTMENT/DIVISION: Police/ Patrol ORDINANCE: _____

EXPENDITURES/EXPENSES/TRANSFERS OUT

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
1001	5403	44040		8,600	CBRN gas masks and filters-Function 34019
TOTAL				8,600	

REVENUES/TRANSFERS IN

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
1001	4401	44040		8,600	CBRN gas masks and filters-Function 34019
TOTAL				8,600	

NET ADJUSTMENT	-
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FUND BALANCE

ACCOUNT STRING				BUDGET (\$)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
TOTAL				-	

Justification for Budget Adjustment:

The budget adjustment will add \$8,600 to the police department budget for the purchase of new Chemical, Biological, Radiological, and Nuclear agent (CBRN) gas masks and replacement filters due to an immediate need to fit all sworn staff. Congress, through the Federal Department of Homeland Security, periodically allocates funds for local security and preparedness needs. The funds are distributed first to the states, and the states distribute them to counties. The County gives us a very short window to make necessary purchases. The City will later be reimbursed for the purchases by Federal Homeland Security funds administered by Placer County Office of Emergency Services. There will be no net fiscal impact on the City.

REQUIRED APPROVALS:			
 REQUESTING DEPARTMENT HEAD / DESIGNEE Dennis Kauffman Digitally signed by Dennis Kauffman Date: 2020.04.02 12:41:05 -07'00'	DATE <u>4-1-2020</u>	 BUDGET MANAGER / DESIGNEE Scott Pettingell Digitally signed by Scott Pettingell Date: 2020.04.01 16:34:45 -07'00'	DATE _____
CHIEF FINANCIAL OFFICER / DESIGNEE _____ DATE _____	CITY MANAGER / DESIGNEE _____ DATE _____		
BUDGET DEPARTMENT USE ONLY:			
POSTED BY _____ DATE _____			

Revised: June 24, 2019



COUNCIL COMMUNICATION

CC #: 0749
File #: 0800-06

Title: Urgency Ordinance To Extend Certain Land Use Entitlements
Contact: Derek Ogden 916-746-1347 dogden@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.31.

RECOMMENDATION TO COUNCIL

In recognition of the current COVID-19 pandemic and as a means to extend all Zoning Ordinance-related entitlements and Buildings and Construction Ordinance-related grading plans, it is recommended that City Council adopt an ordinance to approve a one year extension to all Zoning Ordinance-related entitlements and Buildings and Construction Ordinance-related grading plans.

BACKGROUND

On March 4, 2020, Governor Gavin Newsom proclaimed a State of Emergency in California as a result of the COVID-19 pandemic. Not long after the State's proclamation, the City issued a similar proclamation titled "Proclamation of the Existence of a Local Emergency and Authorization for the Director of Emergency Services/City Manager to Undertake Emergency Measures on Behalf of the City of Roseville." This order was approved by the Roseville City Council at a special meeting on March 17, 2020 and identified the COVID-19 pandemic as a "local emergency". On March 19, 2020, Governor Newsom issued Executive Order N-33-20 ordering all residents of California to stay at home ("Directive"), unless in the category of essential services.

Staff is recommending that the City Council find and declare that the current COVID-19 State of Emergency, Proclamation, and Directive are delaying the start and completion of construction of land development projects, and the land use entitlement approvals for these projects are at an immediate risk of expiring due to the current pandemic. Because the processing, approval, and issuance of land use entitlements, including grading plans, represent a substantial investment of money, time, and effort toward the successful completion of these projects, expiration of these entitlements represents a significant loss for landowners, developers, the local economy, and the City. Staff is recommending the Council help protect against this potential loss and preserve development opportunities by granting additional time to the term of these entitlements.

If approved, the Ordinance would grant a temporary one-year moratorium on the expiration of all planning entitlements and grading plans. This would include, but is not limited to, Design Review Permits, Major Project Permits, other Zoning-related permit types and Grading Plans. The

ordinance would not affect subdivision entitlements or building permits. Subdivision entitlements are governed by California's Subdivision Map Act provisions, which allows substantial extensions for the life of a subdivision entitlement. Building permits are governed by Title 16 of the Roseville Municipal Code ("Buildings and Construction") and the California Buildings Standard Code, which gives the City's Chief Building Official broad discretion regarding building permit extensions.

FISCAL IMPACT

An economic benefit is likely to occur by extending the time development projects have to construct; however, the fiscal impact cannot be quantified.

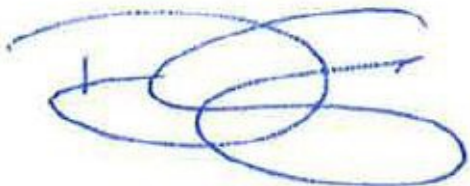
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. Each development project that may be extended has been reviewed in compliance with CEQA statutes and the proposed ordinance will meet the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Derek Ogden, Senior Planner

Mike Isom, Development Services Director

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, likely belonging to Dominick Casey.

Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance No. 6220

ORDINANCE NO. 6220

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
GRANTING A ONE YEAR EXTENSION TO CERTAIN LAND USE ENTITLEMENTS
AND DECLARING THIS ORDINANCE TO BE EFFECTIVE
MAY 6, 2020 AS AN URGENCY ORDINANCE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. On March 4, 2020, Governor Gavin Newsom (“Governor”) proclaimed a State of Emergency in California as a result of the COVID-19 pandemic. A “Proclamation of the Existence of a Local Emergency and Authorization for the Director of Emergency Services/City Manager to Undertake Emergency Measures on Behalf of the City of Roseville” (hereinafter “Proclamation”) was approved by the City Council of the City of Roseville at a special meeting on March 17, 2020 proclaiming a “local emergency”. On March 19, 2020, the Governor issued Executive Order N-33-20 ordering all residents of California to stay at home (“Directive”), unless in the category of essential services.

SECTION 2. The City Council of the City of Roseville finds and declares that the current COVID-19 State of Emergency, Proclamation, and Directive are delaying the start and completion of construction of land development projects, and the land use entitlement approvals for these projects are at an immediate risk of expiring due to no fault of landowners and developers. Because the processing, approval, and issuance of land use entitlements represent a substantial investment of money, time, and effort toward the successful completion of these projects, expiration of these entitlements represents a significant loss for landowners, developers, the local economy, and the City. The City Council desires to protect against this potential loss and preserve development opportunities by granting additional time to the term of these entitlements.

SECTION 3. Notwithstanding the provisions of Title 19 of the Roseville Municipal Code (“Zoning Ordinance”) to the contrary, the period of time within which to obtain a building permit and commence construction, or to establish a use, under Section 19.76.140 of the Zoning Ordinance, including any extensions thereof, shall not include the period of time that this Ordinance is in effect. This Ordinance shall apply only to all entitlements and permits issued under the Zoning Ordinance that are valid and not expired as of the effective date of this Ordinance.

SECTION 4. Notwithstanding the provisions of Title 16 of the Roseville Municipal Code (“Buildings and Construction Ordinance”) to the contrary, the period of time within which to obtain a grading permit and to initiate grading, under Section 16.20.050 of the Roseville Municipal Code, shall not include the period of time that this Ordinance is in effect. This Ordinance shall apply only to all grading plans issued under Chapter 16.20 of the Roseville Municipal Code that are valid and not expired as of the effective date of this Ordinance.

SECTION 5. This Ordinance is enacted by the City Council as an interim urgency ordinance, without notice and hearing before the Planning Commission as required by Sections 19.86.030 and 19.86.050 of the Zoning Ordinance. It is anticipated that the COVID-19 pandemic and resulting economic conditions that are impacting land development will improve within one year. Therefore, this Ordinance shall remain in effect for one year from the date of adoption after which time it shall expire and shall be of no further force or effect.

SECTION 6. This Ordinance is hereby declared to be an urgency measure, immediately necessary for the public peace, health and safety and shall take effect May 6, 2020. A statement of urgency is as follows:

The City Council of the City of Roseville finds and declares that the current COVID-19 State of Emergency, Proclamation, and Directive are delaying the start and completion of construction of land development projects, and the land use entitlement approvals for these projects are at an immediate risk of expiring due to no fault of landowners and developers. Because the processing, approval, and issuance of land use entitlements represent a substantial investment of money, time, and effort toward the successful completion of these projects, expiration of these entitlements represents a significant loss for landowners, developers, the local economy, and the City. Therefore, a one year extension of time for certain land use entitlements is essential for the orderly and necessary continuance of operations of the City.

SECTION 7. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and shall immediately after such posting enter in the Ordinance Book under the record of the ordinance a certificate under her hand stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this _____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

ATTEST:

MAYOR

City Clerk



COUNCIL COMMUNICATION

CC #: 0741
File #: 0600-01

Title: Implementation of Recommended Staffing Changes
Contact: Linda Hampton 916-774-5215 lhampton@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.32.

RECOMMENDATION TO COUNCIL

During the current COVID-19 emergency situation and hiring freeze, Human Resources has continued to perform an ongoing assessment of the appropriate staffing structure for essential services to provide a high level of service to the community. As such, staff is recommending the following changes to the City's staffing allocation schedule and salary schedules to meet business needs. It is recommended that City Council take the following actions:

1. Adopt an ordinance to approve the attached Management A & B salary schedules (Appendix J) reflecting the addition of Police Social Services Practitioner (1039A,1039B), Senior Utility Billing Analyst (1029A,1029B) and the deletion of Police Social Services Administrator (5489A,5489B) effective May 9, 2020; and
2. Adopt an ordinance to approve the attached Local 39 A & B (Appendix F) salary schedules reflecting the reclassification of a vacant Refuse Truck Driver I/II position to one Organics Truck Driver (1028A,1028B) effective May 9, 2020; and
3. Adopt an ordinance to approve the attached Roseville Firefighters' (Appendix E) salary schedules reflecting the deletion of the Fire Inspector I (3380A,3380B) and Fire Inspector II (3385A, 3385B) effective May 9, 2020; and
4. Motion to approve the attached city-wide allocation schedule effective May 9, 2020.

BACKGROUND

As part of the Municipal Code, the Human Resources Department is charged with maintaining the City's classification plan. The Human Resources staff is continually evaluating staffing levels necessary to provide high service levels to the community. During the current hiring freeze, staff is making recommendations related to staffing needs for essential services, including a new position that will allow the City to meet regulation mandates. Staff regularly reviews department workload and the allocation's impact on meeting the city's goals. Additionally, the level at which each of these positions would have to be staffed was analyzed.

Fire & Environmental Safety Inspector:

The Fire Department is requesting to reclassify a recently vacated Fire Inspector I/II (a CalPERS Safety class) to a Fire and Environmental Safety Inspector I/II (a CalPERS Miscellaneous class). The fiscal year 2019-20 (FY2019-20) impact would be a savings of \$5,211.

From	To	Current Salary & Benefits	Proposed Salary & Benefits	Annual Impact *	FY 2019-20 Impact
Fire Inspector II	Fire & Environmental Safety Inspector II	\$165,345	\$150,290	-\$15,055	-\$5,211

*This amount includes the estimated annual pension savings of \$13,248.27.

Senior Utility Billing Analyst:

Staff is requesting that a vacant funded Finance Technician position be reclassified to Senior Utility Billing Analyst (salary range: \$7,375 to \$9,883 per month). This position will support the City's utility financial systems including the successful implementation of the Advanced Metering Infrastructure (AMI).

From	To	Current Salary & Benefits	Proposed Salary & Benefits	Annual Impact *	FY 2019-20 Impact
Finance Technician	Senior Utility Billing Analyst	\$94,216	\$177,778	\$83,562	\$12,856

*This amount includes the estimated annual pension cost of \$6,046

The fiscal impact can be absorbed in the Finance Department FY2019-20 budget through salary savings.

Organics Truck Driver:

Staff is requesting the reclassification of a vacant Refuse Truck Driver I/II position to one Organics Truck Driver (salary range: \$4,101 to \$5,771 monthly) position in the Environmental Utilities Department. The Organics Truck Driver position will operate a combination vehicle and requires a Class A driver's license. This position is needed to comply with AB1826 Commercial Organics Mandates and SB1383 future Organics Regulations.

New Position	To	Current Salary & Benefits	Proposed Salary & Benefits	Annual Impact *	FY 2019-20 Impact
Refuse Truck Driver I/II	Organics Truck Driver	\$98,681	\$103,804	\$4,943	\$760

*This amount includes the estimated annual pension cost of \$358.

The funds for this new position were budgeted in the FY2019-20 budget pending development of the new classification.

Police Social Services Practitioner:

The Police Department is requesting a vacant Police Social Services Administrator be reclassified to a Police Social Services Practitioner (salary range: \$5,409 to \$7,249 monthly) to better reflect the level of work to be assigned.

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From	To	Current Salary & Benefits	Proposed Salary & Benefits	Annual Impact *	FY 2019-20 Impact
Police Social Services Administrator	Police Social Services Practitioner	\$190,858	\$130,396	-\$60,462	-\$9,302

*This amount includes the estimated annual pension savings of \$4,375.

Salary Schedule Changes:

To implement the requested changes the following changes need to be made to salary schedules:

Additions

Classification	Grade Codes	Salary Schedule	Monthly Salary Range- A	Monthly Salary Range - B
Senior Utility Billing Analyst	1029A,1029B	Management	\$7,375 to \$9,883	\$7,375 to \$9,883
Police Social Services Practitioner	1039A,1039B	Management	\$5,409 to \$7,249	\$5,409 to \$7,249
Organics Truck Driver	1028A,1028B	Local 39	\$4,101 to \$5,771	\$4,101 to \$5,771

Deletions

Classification	Grade Codes	Salary Schedule
Police Social Services Administrator	5489A,5489B	Management
Fire Inspector I	3380A, 3380B	Roseville Firefighters'
Fire Inspector II	3385A, 3385B	Roseville Firefighters'

FISCAL IMPACT

The total impact for the fiscal year 2019-20 (FY2019-20) General Fund is a savings of \$14,513. The impact of \$13,616 to the utility funds and the Facility Services Fund was already included in the FY2019-20 budget or will be covered by salary savings.

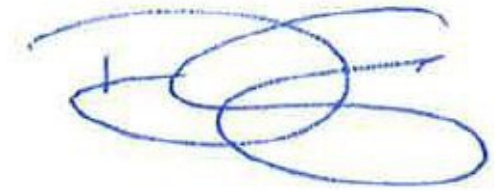
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. The proposed staffing changes meet the above criteria and are not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Linda Hampton, Human Resources Manager

Stacey Peterson, Human Resources Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance No. 6216

2020-05-09 Management Salary Schedule A

2020-05-09 Management Salary Schedule B

Ordinance No. 6217

2020-05-09 Local 39 Schedule A

2020-05-09 Local 39 Schedule B

Ordinance No. 6218

2020-05-09 RFF A

2020-05-09 RFF B

2020-05-09 Position Control

ORDINANCE NO. 6216

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6192, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX “J” TO BE EFFECTIVE MAY 9, 2020, AS AN URGENCY MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Title and Purpose.

Ordinance No. 6192, the Salary Ordinance for Management Employees, is hereby amended as shown on Appendix “J” for salary schedules A & B attached hereto.

DELETION OF CLASSIFICATION

<u>Classification No.</u>	<u>Position Title</u>	<u>Salary Range</u>
5489A/5489B	Police Social Services Administrator	6121

ADDITION OF CLASSIFICATION

<u>Classification No.</u>	<u>Position Title</u>	<u>Salary Range</u>
1039A/1039B	Police Social Services Practitioner	4182
1029A/1029B	Senior Utility Billing Analyst	5701

SECTION 2. Salary Plan Effective Date.

This Ordinance shall be effective May 9, 2020 as an urgency measure.

SECTION 3. Urgency Ordinance.

This ordinance is hereby declared to be an urgency measure, immediately necessary for the public peace, health and safety and shall take effect May 9, 2020. A statement of urgency is as follows:

It is necessary to amend the Salary Ordinance to comply with recently approved changes for the orderly and necessary continuance of operations of the City.

SECTION 4. Posting.

The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the Ordinance Book under the record of the ordinance a certificate under her hand stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this _____ day of _____, 2020, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

ATTEST:

MAYOR

City Clerk



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1505A	AMI Project Manager-A	Step A	50.7925	4063.40	8804.03	105648.40
		Step B	53.3321	4266.57	9244.23	110930.77
		Step C	55.9987	4479.90	9706.44	116477.30
		Step D	58.7987	4703.90	10191.77	122301.30
		Step E	61.7385	4939.08	10701.34	128416.08
		Step F	64.8254	5186.03	11236.40	134836.83
		Step G	68.0668	5445.34	11798.25	141578.94
0043A	Accounting Supervisor-A	Step A	44.4814	3558.51	7710.11	92521.31
		Step B	46.7055	3736.44	8095.62	97147.44
		Step C	49.0408	3923.26	8500.41	102004.86
		Step D	51.4929	4119.43	8925.44	107105.23
		Step E	54.0675	4325.40	9371.70	112460.40
		Step F	56.7709	4541.67	9840.29	118083.47
		Step G	59.6095	4768.76	10332.31	123987.76



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9427A	Accounts Payable Supervisor-A	Step A	42.5518	3404.14	7375.65	88507.74
		Step B	44.6793	3574.34	7744.41	92932.94
		Step C	46.9133	3753.06	8131.64	97579.66
		Step D	49.2589	3940.71	8538.21	102458.51
		Step E	51.7219	4137.75	8965.13	107581.55
		Step F	54.3080	4344.64	9413.39	112960.64
		Step G	57.0234	4561.87	9884.06	118608.67
0045A	Administrative Analyst I-A	Step A	34.6046	2768.37	5998.13	71977.57
		Step B	36.3348	2906.78	6298.03	75576.38
		Step C	38.1514	3052.11	6612.91	79354.91
		Step D	40.0592	3204.74	6943.59	83323.14
		Step E	42.0621	3364.97	7290.76	87489.17
		Step F	44.1652	3533.22	7655.30	91863.62
		Step G	46.3735	3709.88	8038.07	96456.88



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0050A	Administrative Analyst II-A	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.9684	3197.47	6927.86	83134.27
		Step C	41.9667	3357.34	7274.23	87290.74
		Step D	44.0652	3525.22	7637.97	91655.62
		Step E	46.2683	3701.46	8019.84	96238.06
		Step F	48.5818	3886.54	8420.85	101050.14
		Step G	51.0109	4080.87	8841.89	106102.67
0086A	Alternative Transportation Analyst I-A	Step A	35.1221	2809.77	6087.83	73053.97
		Step B	36.8784	2950.27	6392.26	76707.07
		Step C	38.7223	3097.78	6711.87	80542.38
		Step D	40.6584	3252.67	7047.46	84569.47
		Step E	42.6912	3415.30	7399.81	88797.70
		Step F	44.8258	3586.06	7769.81	93237.66
		Step G	47.0672	3765.38	8158.31	97899.78



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0088A	Alternative Transportation Analyst II-A	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.9684	3197.47	6927.86	83134.27
		Step C	41.9667	3357.34	7274.23	87290.74
		Step D	44.0652	3525.22	7637.97	91655.62
		Step E	46.2683	3701.46	8019.84	96238.06
		Step F	48.5818	3886.54	8420.85	101050.14
		Step G	51.0109	4080.87	8841.89	106102.67
0090A	Alternative Transportation Manager-A	Step A	56.6059	4528.47	9811.69	117740.27
		Step B	59.4362	4754.90	10302.27	123627.30
		Step C	62.4080	4992.64	10817.39	129808.64
		Step D	65.5284	5242.27	11358.26	136299.07
		Step E	68.8049	5504.39	11926.18	143114.19
		Step F	72.2451	5779.61	12522.48	150269.81
		Step G	75.8573	6068.58	13148.60	157783.18



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0245A	Assistant City Attorney-A	Step A	83.2516	6660.13	14430.28	173163.33
		Step B	87.4142	6993.14	15151.79	181821.54
		Step C	91.7848	7342.78	15909.37	190912.38
		Step D	96.3741	7709.93	16704.84	200458.13
		Step E	101.1928	8095.42	17540.09	210481.02
		Step F	106.2525	8500.20	18417.10	221005.20
		Step G	111.5650	8925.20	19337.93	232055.20
0250A	Assistant City Clerk-A	Step A	44.0141	3521.13	7629.11	91549.33
		Step B	46.2149	3697.19	8010.58	96126.99
		Step C	48.5256	3882.05	8411.10	100933.25
		Step D	50.9519	4076.15	8831.66	105979.95
		Step E	53.4995	4279.96	9273.25	111278.96
		Step F	56.1744	4493.95	9736.90	116842.75
		Step G	58.9832	4718.66	10223.75	122685.06



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0325A	Assistant City Manager-A	Step A	84.9744	6797.95	14728.90	176746.75
		Step B	89.2230	7137.84	15465.32	185583.84
		Step C	93.6842	7494.74	16238.59	194863.14
		Step D	98.3684	7869.47	17050.52	204606.27
		Step E	103.2869	8262.95	17903.06	214836.75
		Step F	108.4512	8676.10	18798.21	225578.50
		Step G	113.8737	9109.90	19738.11	236857.30
1021A	Assistant City Manager/Chief Financial Officer-A	Step A	84.9744	6797.95	14728.90	176746.75
		Step B	89.2230	7137.84	15465.32	185583.84
		Step C	93.6842	7494.74	16238.59	194863.14
		Step D	98.3684	7869.47	17050.52	204606.27
		Step E	103.2869	8262.95	17903.06	214836.75
		Step F	108.4512	8676.10	18798.21	225578.50
		Step G	113.8737	9109.90	19738.11	236857.30



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0395A	Assistant Electric Utility Director-A	Step A	86.0813	6886.50	14920.76	179049.10
		Step B	90.3854	7230.83	15666.80	188001.63
		Step C	94.9048	7592.38	16450.17	197401.98
		Step D	99.6499	7971.99	17272.65	207271.79
		Step E	104.6325	8370.60	18136.30	217635.60
		Step F	109.8641	8789.13	19043.11	228517.33
		Step G	115.3573	9228.58	19995.27	239943.18
0411A	Assistant Environmental Utilities Director-A	Step A	66.3950	5311.60	11508.47	138101.60
		Step B	69.7148	5577.18	12083.90	145006.78
		Step C	73.2006	5856.05	12688.10	152257.25
		Step D	76.8605	6148.84	13322.49	159869.84
		Step E	80.7036	6456.29	13988.62	167863.49
		Step F	84.7388	6779.10	14688.06	176256.70
		Step G	88.9757	7118.06	15422.45	185069.46



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1026A	Assistant Finance Director-A	Step A	61.6510	4932.08	10686.17	128234.08
		Step B	64.7335	5178.68	11220.47	134645.68
		Step C	67.9702	5437.62	11781.50	141378.02
		Step D	71.3687	5709.50	12370.57	148446.90
		Step E	74.9372	5994.98	12989.11	155869.38
		Step F	78.6840	6294.72	13638.56	163662.72
		Step G	82.6182	6609.46	14320.49	171845.86
0480A	Assistant Fire Chief-A	Step A	63.7340	5098.72	11047.23	132566.72
		Step B	66.9206	5353.65	11599.57	139194.85
		Step C	70.2668	5621.34	12179.58	146154.94
		Step D	73.7801	5902.41	12788.55	153462.61
		Step E	77.4691	6197.53	13427.98	161135.73
		Step F	81.3425	6507.40	14099.37	169192.40
		Step G	85.4098	6832.78	14804.37	177652.38



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0484A	Assistant Human Resources Director-A	Step A	52.2551	4180.41	9057.55	108690.61
		Step B	54.8675	4389.40	9510.37	114124.40
		Step C	57.6113	4608.90	9985.96	119831.50
		Step D	60.4919	4839.35	10485.26	125823.15
		Step E	63.5165	5081.32	11009.53	132114.32
		Step F	66.6923	5335.38	11560.00	138719.98
		Step G	70.0269	5602.15	12138.00	145655.95
9558A	Assistant Information Technology Director-A	Step A	54.5775	4366.20	9460.10	113521.20
		Step B	57.3064	4584.51	9933.11	119197.31
		Step C	60.1717	4813.74	10429.76	125157.14
		Step D	63.1803	5054.42	10951.25	131415.02
		Step E	66.3394	5307.15	11498.83	137985.95
		Step F	69.6563	5572.50	12073.76	144885.10
		Step G	73.1390	5851.12	12677.43	152129.12



City of Roseville

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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0510A	Assistant Police Chief-A	Step A	70.7531	5660.25	12263.87	147166.45
		Step B	74.2907	5943.26	12877.05	154524.66
		Step C	78.0053	6240.42	13520.92	162251.02
		Step D	81.9055	6552.44	14196.95	170363.44
		Step E	86.0008	6880.06	14906.81	178881.66
		Step F	90.3009	7224.07	15652.16	187825.87
		Step G	94.8159	7585.27	16434.76	197217.07
0920A	Billing Services Manager-A	Step A	52.2465	4179.72	9056.06	108672.72
		Step B	54.8589	4388.71	9508.88	114106.51
		Step C	57.6019	4608.15	9984.33	119811.95
		Step D	60.4819	4838.55	10483.53	125802.35
		Step E	63.5060	5080.48	11007.71	132092.48
		Step F	66.6813	5334.50	11558.09	138697.10
		Step G	70.0154	5601.23	12136.00	145632.03



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0910A	Budget Analyst I-A	Step A	35.8245	2865.96	6209.58	74514.96
		Step B	37.6155	3009.24	6520.02	78240.24
		Step C	39.4965	3159.72	6846.06	82152.72
		Step D	41.4713	3317.70	7188.36	86260.30
		Step E	43.5450	3483.60	7547.80	90573.60
		Step F	45.7220	3657.76	7925.15	95101.76
		Step G	48.0082	3840.66	8321.42	99857.06
0915A	Budget Analyst II-A	Step A	38.8258	3106.06	6729.81	80757.66
		Step B	40.7670	3261.36	7066.28	84795.36
		Step C	42.8056	3424.45	7419.64	89035.65
		Step D	44.9457	3595.66	7790.59	93487.06
		Step E	47.1930	3775.44	8180.12	98161.44
		Step F	49.5528	3964.22	8589.15	103069.82
		Step G	52.0304	4162.43	9018.60	108223.23



City of Roseville

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Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0930A	Budget Manager-A	Step A	52.2465	4179.72	9056.06	108672.72
		Step B	54.8589	4388.71	9508.88	114106.51
		Step C	57.6019	4608.15	9984.33	119811.95
		Step D	60.4819	4838.55	10483.53	125802.35
		Step E	63.5060	5080.48	11007.71	132092.48
		Step F	66.6813	5334.50	11558.09	138697.10
		Step G	70.0154	5601.23	12136.00	145632.03
1017A	Building Inspection Supervisor-A	Step A	41.9600	3356.80	7273.07	87276.80
		Step B	44.0580	3524.64	7636.72	91640.64
		Step C	46.2609	3700.87	8018.56	96222.67
		Step D	48.5739	3885.91	8419.48	101033.71
		Step E	51.0027	4080.22	8840.47	106085.62
		Step F	53.5529	4284.23	9282.50	111390.03
		Step G	56.2304	4498.43	9746.60	116959.23



City of Roseville

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Appendix:J
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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1043A	Building Official-A	Step A	53.7813	4302.50	9322.09	111865.10
		Step B	56.4703	4517.62	9788.19	117458.22
		Step C	59.2939	4743.51	10277.61	123331.31
		Step D	62.2586	4980.69	10791.49	129497.89
		Step E	65.3714	5229.71	11331.04	135972.51
		Step F	68.6400	5491.20	11897.60	142771.20
		Step G	72.0720	5765.76	12492.48	149909.76
1180A	Chief Information Officer-A	Step A	68.2219	5457.75	11825.13	141901.55
		Step B	71.6330	5730.64	12416.39	148996.64
		Step C	75.2147	6017.18	13037.21	156446.58
		Step D	78.9754	6318.03	13689.07	164268.83
		Step E	82.9242	6633.94	14373.53	172482.34
		Step F	87.0704	6965.63	15092.20	181106.43
		Step G	91.4239	7313.91	15846.81	190161.71



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1220A	City Clerk-A	Step A	68.2219	5457.75	11825.13	141901.55
		Step B	71.6330	5730.64	12416.39	148996.64
		Step C	75.2147	6017.18	13037.21	156446.58
		Step D	78.9754	6318.03	13689.07	164268.83
		Step E	82.9242	6633.94	14373.53	172482.34
		Step F	87.0704	6965.63	15092.20	181106.43
		Step G	91.4239	7313.91	15846.81	190161.71
1368A	Code Enforcement Supervisor-A	Step A	40.8693	3269.54	7084.01	85008.14
		Step B	42.9126	3433.01	7438.18	89258.21
		Step C	45.0584	3604.67	7810.12	93721.47
		Step D	47.3113	3784.90	8200.63	98407.50
		Step E	49.6768	3974.14	8610.65	103327.74
		Step F	52.1606	4172.85	9041.17	108494.05
		Step G	54.7687	4381.50	9493.24	113918.90



City of Roseville

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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1027A	Construction Inspection Superintendent-A	Step A	43.7313	3498.50	7580.09	90961.10
		Step B	45.9179	3673.43	7959.10	95509.23
		Step C	48.2138	3857.10	8357.06	100284.70
		Step D	50.6245	4049.96	8774.91	105298.96
		Step E	53.1557	4252.46	9213.65	110563.86
		Step F	55.8135	4465.08	9674.34	116092.08
		Step G	58.6042	4688.34	10158.06	121896.74
1370A	Controller-A	Step A	54.8588	4388.70	9508.86	114106.30
		Step B	57.6019	4608.15	9984.33	119811.95
		Step C	60.4819	4838.55	10483.53	125802.35
		Step D	63.5060	5080.48	11007.71	132092.48
		Step E	66.6813	5334.50	11558.09	138697.10
		Step F	70.0154	5601.23	12136.00	145632.03
		Step G	73.5162	5881.30	12742.81	152913.70



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1025A	Custodian Supervisor-A	Step A	23.6003	1888.02	4090.72	49088.62
		Step B	24.7803	1982.42	4295.25	51543.02
		Step C	26.0193	2081.54	4510.01	54120.14
		Step D	27.3203	2185.62	4735.52	56826.22
		Step E	28.6863	2294.90	4972.29	59667.50
		Step F	30.1206	2409.65	5220.90	62650.85
		Step G	31.6267	2530.14	5481.96	65783.54
9561A	Data Management System Administrator-A	Step A	45.2100	3616.80	7836.40	94036.80
		Step B	47.4705	3797.64	8228.22	98738.64
		Step C	49.8441	3987.53	8639.64	103675.73
		Step D	52.3363	4186.90	9071.63	108859.50
		Step E	54.9531	4396.25	9525.20	114302.45
		Step F	57.7007	4616.06	10001.45	120017.46
		Step G	60.5858	4846.86	10501.54	126018.46



City of Roseville

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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1645A	Department Public Information Officer-A	Step A	41.6842	3334.74	7225.26	86703.14
		Step B	43.7685	3501.48	7586.54	91038.48
		Step C	45.9569	3676.55	7965.86	95590.35
		Step D	48.2547	3860.38	8364.15	100369.78
		Step E	50.6675	4053.40	8782.37	105388.40
		Step F	53.2009	4256.07	9221.49	110657.87
		Step G	55.8609	4468.87	9682.56	116190.67
1655A	Deputy City Attorney I-A	Step A	59.8287	4786.30	10370.31	124443.70
		Step B	62.8201	5025.61	10888.82	130665.81
		Step C	65.9611	5276.89	11433.26	137199.09
		Step D	69.2592	5540.74	12004.93	144059.14
		Step E	72.7222	5817.78	12605.18	151262.18
		Step F	76.3583	6108.66	13235.44	158825.26
		Step G	80.1762	6414.10	13897.21	166766.50



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1658A	Deputy City Attorney II-A	Step A	65.8116	5264.93	11407.34	136888.13
		Step B	69.1022	5528.18	11977.71	143732.58
		Step C	72.5573	5804.58	12576.60	150919.18
		Step D	76.1851	6094.81	13205.42	158465.01
		Step E	79.9944	6399.55	13865.70	166388.35
		Step F	83.9941	6719.53	14558.98	174707.73
		Step G	88.1938	7055.50	15286.93	183443.10
1659A	Deputy City Manager-A	Step A	68.2219	5457.75	11825.13	141901.55
		Step B	71.6330	5730.64	12416.39	148996.64
		Step C	75.2147	6017.18	13037.21	156446.58
		Step D	78.9754	6318.03	13689.07	164268.83
		Step E	82.9242	6633.94	14373.53	172482.34
		Step F	87.0704	6965.63	15092.20	181106.43
		Step G	91.4239	7313.91	15846.81	190161.71



City of Roseville

Salary Schedule: Management-A

Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1674A	Development Analyst I-A	Step A	34.6046	2768.37	5998.13	71977.57
		Step B	36.3348	2906.78	6298.03	75576.38
		Step C	38.1514	3052.11	6612.91	79354.91
		Step D	40.0592	3204.74	6943.59	83323.14
		Step E	42.0621	3364.97	7290.76	87489.17
		Step F	44.1652	3533.22	7655.30	91863.62
		Step G	46.3735	3709.88	8038.07	96456.88
1675A	Development Analyst II-A	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.9684	3197.47	6927.86	83134.27
		Step C	41.9667	3357.34	7274.23	87290.74
		Step D	44.0652	3525.22	7637.97	91655.62
		Step E	46.2683	3701.46	8019.84	96238.06
		Step F	48.5818	3886.54	8420.85	101050.14
		Step G	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-A

Appendix:J
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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1280A	Development Services Administrator-A	Step A	41.9600	3356.80	7273.07	87276.80
		Step B	44.0580	3524.64	7636.72	91640.64
		Step C	46.2609	3700.87	8018.56	96222.67
		Step D	48.5739	3885.91	8419.48	101033.71
		Step E	51.0027	4080.22	8840.47	106085.62
		Step F	53.5529	4284.23	9282.50	111390.03
		Step G	56.2304	4498.43	9746.60	116959.23
1676A	Development Services Director-A	Step A	75.4127	6033.02	13071.53	156858.42
		Step B	79.1834	6334.67	13725.12	164701.47
		Step C	83.1426	6651.41	14411.38	172936.61
		Step D	87.2996	6983.97	15131.93	181583.17
		Step E	91.6647	7333.18	15888.55	190662.58
		Step F	96.2480	7699.84	16682.99	200195.84
		Step G	101.0603	8084.82	17517.12	210205.42



City of Roseville

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Appendix:J
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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1695A	Development Services Manager-A	Step A	49.9310	3994.48	8654.71	103856.48
		Step B	52.4275	4194.20	9087.43	109049.20
		Step C	55.0489	4403.91	9541.81	114501.71
		Step D	57.8014	4624.11	10018.91	120226.91
		Step E	60.6915	4855.32	10519.86	126238.32
		Step F	63.7261	5098.09	11045.86	132550.29
		Step G	66.9124	5352.99	11598.15	139177.79
2415A	EMS Quality Assurance Coordinator-A	Step A	47.0174	3761.39	8149.68	97796.19
		Step B	49.3682	3949.46	8557.15	102685.86
		Step C	51.8368	4146.94	8985.05	107820.54
		Step D	54.4287	4354.30	9434.31	113211.70
		Step E	57.1500	4572.00	9906.00	118872.00
		Step F	60.0076	4800.61	10401.32	124815.81
		Step G	63.0079	5040.63	10921.37	131056.43



City of Roseville

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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6520A	ERP Manager-A	Step A	50.7925	4063.40	8804.03	105648.40
		Step B	53.3321	4266.57	9244.23	110930.77
		Step C	55.9987	4479.90	9706.44	116477.30
		Step D	58.7987	4703.90	10191.77	122301.30
		Step E	61.7385	4939.08	10701.34	128416.08
		Step F	64.8254	5186.03	11236.40	134836.83
		Step G	68.0668	5445.34	11798.25	141578.94
1710A	Economic Development Director-A	Step A	67.2729	5381.83	11660.64	139927.63
		Step B	70.6368	5650.94	12243.71	146924.54
		Step C	74.1686	5933.49	12855.89	154270.69
		Step D	77.8770	6230.16	13498.68	161984.16
		Step E	81.7709	6541.67	14173.62	170083.47
		Step F	85.8595	6868.76	14882.31	178587.76
		Step G	90.1524	7212.19	15626.42	187516.99



City of Roseville

Salary Schedule: Management-A

Appendix:J
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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1001A	Economic Development Project Manager-A	Step A	46.4729	3717.83	8055.30	96663.63
		Step B	48.7965	3903.72	8458.06	101496.72
		Step C	51.2364	4098.91	8880.98	106571.71
		Step D	53.7982	4303.86	9325.02	111900.26
		Step E	56.4881	4519.05	9791.27	117495.25
		Step F	59.3125	4745.00	10280.83	123370.00
		Step G	62.2781	4982.25	10794.87	129538.45
1310A	Electric Business Analyst I-A	Step A	45.0867	3606.94	7815.03	93780.34
		Step B	47.3410	3787.28	8205.77	98469.28
		Step C	49.7081	3976.65	8616.07	103392.85
		Step D	52.1935	4175.48	9046.87	108562.48
		Step E	54.8032	4384.26	9499.22	113990.66
		Step F	57.5434	4603.47	9974.19	119690.27
		Step G	60.4205	4833.64	10472.89	125674.64



City of Roseville

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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1312A	Electric Business Analyst II-A	Step A	49.6000	3968.00	8597.33	103168.00
		Step B	52.0800	4166.40	9027.20	108326.40
		Step C	54.6839	4374.71	9478.54	113742.51
		Step D	57.4182	4593.46	9952.49	119429.86
		Step E	60.2891	4823.13	10450.11	125401.33
		Step F	63.3035	5064.28	10972.61	131671.28
		Step G	66.4687	5317.50	11521.24	138254.90
2335A	Electric Compliance Analyst-A	Step A	49.5170	3961.36	8582.95	102995.36
		Step B	51.9928	4159.42	9012.09	108145.02
		Step C	54.5925	4367.40	9462.70	113552.40
		Step D	57.3221	4585.77	9935.83	119229.97
		Step E	60.1882	4815.06	10432.62	125191.46
		Step F	63.1976	5055.81	10954.25	131451.01
		Step G	66.3575	5308.60	11501.97	138023.60



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6285A	Electric Customer Programs Supervisor-A	Step A	61.0904	4887.23	10589.00	127068.03
		Step B	64.1450	5131.60	11118.47	133421.60
		Step C	67.3522	5388.18	11674.38	140092.58
		Step D	70.7198	5657.58	12258.10	147097.18
		Step E	74.2557	5940.46	12870.99	154451.86
		Step F	77.9685	6237.48	13514.54	162174.48
		Step G	81.8670	6549.36	14190.28	170283.36
2284A	Electric Engineering Technician Supervisor-A	Step A	52.9924	4239.39	9185.35	110224.19
		Step B	55.6420	4451.36	9644.61	115735.36
		Step C	58.4241	4673.93	10126.84	121522.13
		Step D	61.3453	4907.62	10633.19	127598.22
		Step E	64.4125	5153.00	11164.83	133978.00
		Step F	67.6331	5410.65	11723.07	140676.85
		Step G	71.0149	5681.19	12309.25	147710.99



City of Roseville

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Appendix:J
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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2338A	Electric Operations Manager-A	Step A	74.8532	5988.26	12974.55	155694.66
		Step B	78.5959	6287.67	13623.29	163479.47
		Step C	82.5257	6602.06	14304.45	171653.46
		Step D	86.6520	6932.16	15019.68	180236.16
		Step E	90.9847	7278.78	15770.68	189248.18
		Step F	95.5339	7642.71	16559.21	198710.51
		Step G	100.3105	8024.84	17387.15	208645.84
2339A	Electric Operations Supervisor-A	Step A	66.6866	5334.93	11559.01	138708.13
		Step B	70.0210	5601.68	12136.97	145643.68
		Step C	73.5220	5881.76	12743.81	152925.76
		Step D	77.1980	6175.84	13380.99	160571.84
		Step E	81.0580	6484.64	14050.05	168600.64
		Step F	85.1109	6808.87	14752.56	177030.67
		Step G	89.3664	7149.31	15490.18	185882.11



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2314A	Electric Resources Analyst I-A	Step A	51.3634	4109.07	8902.99	106835.87
		Step B	53.9315	4314.52	9348.13	112177.52
		Step C	56.6281	4530.25	9815.54	117786.45
		Step D	59.4595	4756.76	10306.31	123675.76
		Step E	62.4325	4994.60	10821.63	129859.60
		Step F	65.5541	5244.33	11362.71	136352.53
		Step G	68.8319	5506.55	11930.86	143170.35
2316A	Electric Resources Analyst II-A	Step A	56.4997	4519.98	9793.28	117519.38
		Step B	59.3247	4745.98	10282.95	123395.38
		Step C	62.2909	4983.27	10797.09	129565.07
		Step D	65.4055	5232.44	11336.95	136043.44
		Step E	68.6758	5494.06	11903.81	142845.66
		Step F	72.1096	5768.77	12499.00	149987.97
		Step G	75.7151	6057.21	13123.95	157487.41



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2216A	Electric Risk and Compliance Supervisor-A	Step A	62.1716	4973.73	10776.41	129316.93
		Step B	65.2803	5222.42	11315.25	135783.02
		Step C	68.5443	5483.54	11881.01	142572.14
		Step D	71.9714	5757.71	12475.04	149700.51
		Step E	75.5701	6045.61	13098.82	157185.81
		Step F	79.3486	6347.89	13753.76	165045.09
		Step G	83.3160	6665.28	14441.44	173297.28
2352A	Electric Safety Coordinator-A	Step A	38.0651	3045.21	6597.95	79175.41
		Step B	39.9683	3197.46	6927.84	83134.06
		Step C	41.9666	3357.33	7274.21	87290.53
		Step D	44.0650	3525.20	7637.93	91655.20
		Step E	46.2682	3701.46	8019.82	96237.86
		Step F	48.5816	3886.53	8420.81	101049.73
		Step G	51.0109	4080.87	8841.89	106102.67



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Appendix:J
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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2319A	Electric Substation Supervisor-A	Step A	66.6866	5334.93	11559.01	138708.13
		Step B	70.0210	5601.68	12136.97	145643.68
		Step C	73.5220	5881.76	12743.81	152925.76
		Step D	77.1980	6175.84	13380.99	160571.84
		Step E	81.0580	6484.64	14050.05	168600.64
		Step F	85.1109	6808.87	14752.56	177030.67
		Step G	89.3664	7149.31	15490.18	185882.11
9560A	Electric Technology Systems Administrator-A	Step A	62.7447	5019.58	10875.75	130508.98
		Step B	65.8819	5270.55	11419.53	137034.35
		Step C	69.1759	5534.07	11990.49	143885.87
		Step D	72.6347	5810.78	12590.01	151080.18
		Step E	76.2665	6101.32	13219.53	158634.32
		Step F	80.0799	6406.39	13880.52	166566.19
		Step G	84.0838	6726.70	14574.53	174894.30



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2320A	Electric Utility Director-A	Step A	107.5016	8600.13	18633.61	223603.33
		Step B	112.8767	9030.14	19565.29	234783.54
		Step C	118.5206	9481.65	20543.57	246522.85
		Step D	124.4466	9955.73	21570.74	258848.93
		Step E	130.6690	10453.52	22649.29	271791.52
		Step F	137.2024	10976.19	23781.75	285380.99
		Step G	144.0625	11525.00	24970.83	299650.00
2215A	Electric Utility Financial Administrator-A	Step A	61.1078	4888.62	10592.02	127104.22
		Step B	64.1631	5133.05	11121.60	133459.25
		Step C	67.3713	5389.70	11677.69	140132.30
		Step D	70.7399	5659.19	12261.58	147138.99
		Step E	74.2769	5942.15	12874.66	154495.95
		Step F	77.9907	6239.26	13518.39	162220.66
		Step G	81.8903	6551.22	14194.32	170331.82



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Appendix:J
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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2378A	Electronic Maintenance Coordinator-A	Step A	40.8613	3268.90	7082.63	84991.50
		Step B	42.9044	3432.35	7436.76	89241.15
		Step C	45.0496	3603.97	7808.60	93703.17
		Step D	47.3020	3784.16	8199.01	98388.16
		Step E	49.6670	3973.36	8608.95	103307.36
		Step F	52.1504	4172.03	9039.40	108472.83
		Step G	54.7579	4380.63	9491.37	113896.43
2500A	Energy Services Account Representative I-A	Step A	43.9039	3512.31	7610.01	91320.11
		Step B	46.0990	3687.92	7990.49	95885.92
		Step C	48.4040	3872.32	8390.03	100680.32
		Step D	50.8241	4065.93	8809.51	105714.13
		Step E	53.3654	4269.23	9250.00	111000.03
		Step F	56.0337	4482.70	9712.51	116550.10
		Step G	58.8353	4706.82	10198.12	122377.42



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2501A	Energy Services Account Representative II-A	Step A	48.2943	3863.54	8371.01	100452.14
		Step B	50.7091	4056.73	8789.58	105474.93
		Step C	53.2445	4259.56	9229.05	110748.56
		Step D	55.9067	4472.54	9690.49	116285.94
		Step E	58.7021	4696.17	10175.03	122100.37
		Step F	61.6372	4930.98	10683.78	128205.38
		Step G	64.7190	5177.52	11217.96	134615.52
1277A	Engineering Manager-A	Step A	58.7839	4702.71	10189.21	122270.51
		Step B	61.7232	4937.86	10698.69	128384.26
		Step C	64.8090	5184.72	11233.56	134802.72
		Step D	68.0497	5443.98	11795.28	141543.38
		Step E	71.4520	5716.16	12385.01	148620.16
		Step F	75.0245	6001.96	13004.25	156050.96
		Step G	78.7758	6302.06	13654.47	163853.66



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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2540A	Environmental Coordinator-A	Step A	43.7750	3502.00	7587.67	91052.00
		Step B	45.9639	3677.11	7967.08	95604.91
		Step C	48.2622	3860.98	8365.45	100385.38
		Step D	50.6751	4054.01	8783.68	105404.21
		Step E	53.2090	4256.72	9222.89	110674.72
		Step F	55.8692	4469.54	9683.99	116207.94
		Step G	58.6628	4693.02	10168.22	122018.62
2548A	Environmental Utilities Business Administrator-A	Step A	44.6497	3571.98	7739.28	92871.38
		Step B	46.8822	3750.58	8126.25	97514.98
		Step C	49.2264	3938.11	8532.58	102390.91
		Step D	51.6876	4135.01	8959.18	107510.21
		Step E	54.2720	4341.76	9407.15	112885.76
		Step F	56.9857	4558.86	9877.52	118530.26
		Step G	59.8349	4786.79	10371.38	124456.59



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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1684A	Environmental Utilities Director-A	Step A	83.0909	6647.27	14402.42	172829.07
		Step B	87.2453	6979.62	15122.52	181470.22
		Step C	91.6077	7328.62	15878.67	190544.02
		Step D	96.1880	7695.04	16672.59	200071.04
		Step E	100.9975	8079.80	17506.23	210074.80
		Step F	106.0474	8483.79	18381.55	220578.59
		Step G	111.3497	8907.98	19300.61	231607.38
1024A	Environmental Utilities Maintenance Superintendent-A	Step A	56.6631	4533.05	9821.60	117859.25
		Step B	59.4962	4759.70	10312.67	123752.10
		Step C	62.4710	4997.68	10828.31	129939.68
		Step D	65.5946	5247.57	11369.73	136436.77
		Step E	68.8743	5509.94	11938.21	143258.54
		Step F	72.3180	5785.44	12535.12	150421.44
		Step G	75.9339	6074.71	13161.88	157942.51



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Appendix:J
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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2546A	Environmental Utilities Rate Analyst I-A	Step A	35.8245	2865.96	6209.58	74514.96
		Step B	37.6156	3009.25	6520.04	78240.45
		Step C	39.4965	3159.72	6846.06	82152.72
		Step D	41.4712	3317.70	7188.34	86260.10
		Step E	43.5449	3483.59	7547.78	90573.39
		Step F	45.7221	3657.77	7925.16	95101.97
		Step G	48.0082	3840.66	8321.42	99857.06
2547A	Environmental Utilities Rate Analyst II-A	Step A	38.8258	3106.06	6729.81	80757.66
		Step B	40.7671	3261.37	7066.30	84795.57
		Step C	42.8056	3424.45	7419.64	89035.65
		Step D	44.9457	3595.66	7790.59	93487.06
		Step E	47.1930	3775.44	8180.12	98161.44
		Step F	49.5528	3964.22	8589.15	103069.82
		Step G	52.0304	4162.43	9018.60	108223.23



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Appendix:J
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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2541A	Environmental Utility Compliance Administrator-A	Step A	43.7730	3501.84	7587.32	91047.84
		Step B	45.9616	3676.93	7966.68	95600.13
		Step C	48.2596	3860.77	8365.00	100379.97
		Step D	50.6726	4053.81	8783.25	105399.01
		Step E	53.2061	4256.49	9222.39	110668.69
		Step F	55.8665	4469.32	9683.53	116202.32
		Step G	58.6597	4692.78	10167.68	122012.18
2565A	Equipment Maintenance Supervisor-A	Step A	34.4643	2757.14	5973.81	71685.74
		Step B	36.1875	2895.00	6272.50	75270.00
		Step C	37.9969	3039.75	6586.13	79033.55
		Step D	39.8968	3191.74	6915.45	82985.34
		Step E	41.8916	3351.33	7261.21	87134.53
		Step F	43.9862	3518.90	7624.27	91491.30
		Step G	46.1855	3694.84	8005.49	96065.84



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3395A	Facilities Manager-A	Step A	44.9857	3598.86	7797.52	93570.26
		Step B	47.2350	3778.80	8187.40	98248.80
		Step C	49.5967	3967.74	8596.76	103161.14
		Step D	52.0765	4166.12	9026.59	108319.12
		Step E	54.6803	4374.42	9477.92	113735.02
		Step F	57.4144	4593.15	9951.83	119421.95
		Step G	60.2851	4822.81	10449.42	125393.01
4321A	Facilities Supervisor-A	Step A	32.7691	2621.53	5679.98	68159.73
		Step B	34.4076	2752.61	5963.98	71567.81
		Step C	36.1279	2890.23	6262.17	75146.03
		Step D	37.9344	3034.75	6575.30	78903.55
		Step E	39.8311	3186.49	6904.06	82848.69
		Step F	41.8226	3345.81	7249.25	86991.01
		Step G	43.9137	3513.10	7611.71	91340.50



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2900A	Finance Manager-A	Step A	52.2465	4179.72	9056.06	108672.72
		Step B	54.8589	4388.71	9508.88	114106.51
		Step C	57.6019	4608.15	9984.33	119811.95
		Step D	60.4819	4838.55	10483.53	125802.35
		Step E	63.5060	5080.48	11007.71	132092.48
		Step F	66.6813	5334.50	11558.09	138697.10
		Step G	70.0154	5601.23	12136.00	145632.03
3310A	Finance Supervisor-A	Step A	38.6796	3094.37	6704.46	80453.57
		Step B	40.6135	3249.08	7039.67	84476.08
		Step C	42.6442	3411.54	7391.66	88699.94
		Step D	44.7764	3582.11	7761.24	93134.91
		Step E	47.0152	3761.22	8149.30	97791.62
		Step F	49.3660	3949.28	8556.77	102681.28
		Step G	51.8343	4146.74	8984.61	107815.34



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0905ZA	Fire Battalion Chief 8Hr-ZA	Step A	54.3527	4348.22	9421.13	113053.62
		Step B	57.0703	4565.62	9892.19	118706.22
		Step C	59.9238	4793.90	10386.79	124641.50
		Step D	62.9200	5033.60	10906.13	130873.60
		Step E	66.0661	5285.29	11451.46	137417.49
		Step F	69.3693	5549.54	12024.01	144288.14
		Step G	72.8377	5827.02	12625.20	151502.42



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Appendix:J
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MGMT Management

Grade Code	Grade Name
0905A	Fire Battalion Chief-A

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	38.8233	4348.21	9421.12	113053.45
Step A	38.8233	4348.21	9421.12	113053.45
Step B	40.7645	4565.62	9892.19	118706.22
Step B	40.7645	4565.62	9892.19	118706.22
Step C	42.8027	4793.90	10386.79	124641.46
Step C	42.8027	4793.90	10386.79	124641.46
Step D	44.9429	5033.60	10906.14	130873.72
Step D	44.9429	5033.60	10906.14	130873.72
Step E	47.1900	5285.28	11451.44	137417.28
Step E	47.1900	5285.28	11451.44	137417.28
Step F	49.5495	5549.54	12024.01	144288.14
Step F	49.5495	5549.54	12024.01	144288.14
Step G	52.0270	5827.02	12625.22	151502.62
Step G	52.0270	5827.02	12625.22	151502.62



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3330A	Fire Chief-A	Step A	75.7064	6056.51	13122.44	157469.31
		Step B	79.4918	6359.34	13778.58	165342.94
		Step C	83.4662	6677.30	14467.47	173609.70
		Step D	87.6397	7011.18	15190.88	182290.58
		Step E	92.0217	7361.74	15950.43	191405.14
		Step F	96.6225	7729.80	16747.90	200974.80
		Step G	101.4537	8116.30	17585.31	211023.70
3332A	Fire Division Chief-A	Step A	57.9400	4635.20	10042.93	120515.20
		Step B	60.8370	4866.96	10545.08	126540.96
		Step C	63.8789	5110.31	11072.34	132868.11
		Step D	67.0728	5365.82	11625.95	139511.42
		Step E	70.4265	5634.12	12207.26	146487.12
		Step F	73.9478	5915.82	12817.62	153811.42
		Step G	77.6451	6211.61	13458.48	161501.81



City of Roseville

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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3332ZA	Fire Divison Chief 24Hr-ZA	Step A	41.3857	4635.20	10042.93	120515.16
		Step B	43.4550	4866.96	10545.08	126540.96
		Step C	45.6277	5110.30	11072.32	132867.86
		Step D	47.9091	5365.82	11625.94	139511.30
		Step E	50.3046	5634.12	12207.25	146487.00
		Step F	52.8198	5915.82	12817.60	153811.26
		Step G	55.4607	6211.60	13458.46	161501.56
3392A	Fleet Manager-A	Step A	44.9857	3598.86	7797.52	93570.26
		Step B	47.2350	3778.80	8187.40	98248.80
		Step C	49.5967	3967.74	8596.76	103161.14
		Step D	52.0765	4166.12	9026.59	108319.12
		Step E	54.6803	4374.42	9477.92	113735.02
		Step F	57.4144	4593.15	9951.83	119421.95
		Step G	60.2851	4822.81	10449.42	125393.01



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Appendix:J
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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3451A	Government Relations Administrator-A	Step A	49.8802	3990.42	8645.90	103750.82
		Step B	52.3742	4189.94	9078.19	108938.34
		Step C	54.9929	4399.43	9532.10	114385.23
		Step D	57.7426	4619.41	10008.72	120104.61
		Step E	60.6297	4850.38	10509.15	126109.78
		Step F	63.6612	5092.90	11034.61	132415.30
		Step G	66.8442	5347.54	11586.33	139035.94
1647A	Government Relations Representative I-A	Step A	34.6046	2768.37	5998.13	71977.57
		Step B	36.3348	2906.78	6298.03	75576.38
		Step C	38.1514	3052.11	6612.91	79354.91
		Step D	40.0592	3204.74	6943.59	83323.14
		Step E	42.0621	3364.97	7290.76	87489.17
		Step F	44.1652	3533.22	7655.30	91863.62
		Step G	46.3735	3709.88	8038.07	96456.88



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1648A	Government Relations Representative II-A	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.9684	3197.47	6927.86	83134.27
		Step C	41.9667	3357.34	7274.23	87290.74
		Step D	44.0652	3525.22	7637.97	91655.62
		Step E	46.2683	3701.46	8019.84	96238.06
		Step F	48.5818	3886.54	8420.85	101050.14
		Step G	51.0109	4080.87	8841.89	106102.67
3589A	Housing Manager-A	Step A	45.1981	3615.85	7834.34	94012.05
		Step B	47.4598	3796.78	8226.37	98716.38
		Step C	49.8330	3986.64	8637.72	103652.64
		Step D	52.3246	4185.97	9069.60	108835.17
		Step E	54.9407	4395.26	9523.05	114276.66
		Step F	57.6879	4615.03	9999.24	119990.83
		Step G	60.5722	4845.78	10499.18	125990.18



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Appendix:J
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MGMT Management Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3590A	Housing Supervisor-A	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.9684	3197.47	6927.86	83134.27
		Step C	41.9667	3357.34	7274.23	87290.74
		Step D	44.0652	3525.22	7637.97	91655.62
		Step E	46.2683	3701.46	8019.84	96238.06
		Step F	48.5818	3886.54	8420.85	101050.14
		Step G	51.0109	4080.87	8841.89	106102.67
3594A	Human Resources Analyst I-A	Step A	34.1664	2733.31	5922.18	71066.11
		Step B	35.8747	2869.98	6218.28	74619.38
		Step C	37.6684	3013.47	6529.19	78350.27
		Step D	39.5519	3164.15	6855.66	82267.95
		Step E	41.5295	3322.36	7198.45	86381.36
		Step F	43.6059	3488.47	7558.36	90700.27
		Step G	45.7862	3662.90	7936.27	95235.30



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Appendix:J
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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3596A	Human Resources Analyst II-A	Step A	37.5830	3006.64	6514.39	78172.64
		Step B	39.4621	3156.97	6840.10	82081.17
		Step C	41.4352	3314.82	7182.10	86185.22
		Step D	43.5070	3480.56	7541.21	90494.56
		Step E	45.6824	3654.59	7918.28	95019.39
		Step F	47.9665	3837.32	8314.19	99770.32
		Step G	50.3648	4029.18	8729.90	104758.78
3598A	Human Resources Director-A	Step A	70.0507	5604.06	12142.12	145705.46
		Step B	73.5532	5884.26	12749.22	152990.66
		Step C	77.2309	6178.47	13386.69	160640.27
		Step D	81.0924	6487.39	14056.02	168672.19
		Step E	85.1471	6811.77	14758.83	177105.97
		Step F	89.4045	7152.36	15496.78	185961.36
		Step G	93.8747	7509.98	16271.61	195259.38



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Appendix:J
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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3599A	Human Resources Manager-A	Step A	43.3517	3468.14	7514.29	90171.54
		Step B	45.5193	3641.54	7890.01	94680.14
		Step C	47.7954	3823.63	8284.54	99414.43
		Step D	50.1851	4014.81	8698.75	104385.01
		Step E	52.6944	4215.55	9133.70	109604.35
		Step F	55.3292	4426.34	9590.39	115084.74
		Step G	58.0957	4647.66	10069.92	120839.06
1002A	Hydrogeologist-A	Step A	52.2508	4180.06	9056.81	108681.66
		Step B	54.8632	4389.06	9509.62	114115.46
		Step C	57.6065	4608.52	9985.13	119821.52
		Step D	60.4869	4838.95	10484.40	125812.75
		Step E	63.5113	5080.90	11008.63	132103.50
		Step F	66.6869	5334.95	11559.06	138708.75
		Step G	70.0209	5601.67	12136.96	145643.47



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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3625A	Information Security Administrator-A	Step A	45.0488	3603.90	7808.46	93701.50
		Step B	47.3011	3784.09	8198.86	98386.29
		Step C	49.6662	3973.30	8608.81	103305.70
		Step D	52.1496	4171.97	9039.26	108471.17
		Step E	54.7570	4380.56	9491.21	113894.56
		Step F	57.4949	4599.59	9965.78	119589.39
		Step G	60.3697	4829.58	10464.08	125568.98
9542A	Information Technology Client Services Supervisor-A	Step A	39.5497	3163.98	6855.28	82263.38
		Step B	41.5272	3322.18	7198.05	86376.58
		Step C	43.6036	3488.29	7557.96	90695.49
		Step D	45.7838	3662.70	7935.86	95230.30
		Step E	48.0730	3845.84	8332.65	99991.84
		Step F	50.4766	4038.13	8749.28	104991.33
		Step G	53.0005	4240.04	9186.75	110241.04



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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3602A	Information Technology Program Manager-A	Step A	46.1749	3693.99	8003.65	96043.79
		Step B	48.4837	3878.70	8403.84	100846.10
		Step C	50.9078	4072.62	8824.02	105888.22
		Step D	53.4533	4276.26	9265.24	111182.86
		Step E	56.1260	4490.08	9728.51	116742.08
		Step F	58.9323	4714.58	10214.93	122579.18
		Step G	61.8789	4950.31	10725.68	128708.11
3740A	Interpretive Services Supervisor-A	Step A	36.2522	2900.18	6283.71	75404.58
		Step B	38.0646	3045.17	6597.86	79174.37
		Step C	39.9680	3197.44	6927.79	83133.44
		Step D	41.9664	3357.31	7274.18	87290.11
		Step E	44.0648	3525.18	7637.90	91654.78
		Step F	46.2679	3701.43	8019.77	96237.23
		Step G	48.5813	3886.50	8420.76	101049.10



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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3810A	Key Accounts Representative-A	Step A	53.1263	4250.10	9208.56	110502.70
		Step B	55.7827	4462.62	9669.00	116028.02
		Step C	58.5718	4685.74	10152.45	121829.34
		Step D	61.5004	4920.03	10660.07	127920.83
		Step E	64.5754	5166.03	11193.07	134316.83
		Step F	67.8042	5424.34	11752.73	141032.74
		Step G	71.1944	5695.55	12340.36	148084.35
4449A	Management Analyst-A	Step A	39.9684	3197.47	6927.86	83134.27
		Step B	41.9667	3357.34	7274.23	87290.74
		Step C	44.0652	3525.22	7637.97	91655.62
		Step D	46.2683	3701.46	8019.84	96238.06
		Step E	48.5818	3886.54	8420.85	101050.14
		Step F	51.0109	4080.87	8841.89	106102.67
		Step G	53.5613	4284.90	9283.96	111407.50



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5020A	Park Development Analyst I-A	Step A	34.6046	2768.37	5998.13	71977.57
		Step B	36.3348	2906.78	6298.03	75576.38
		Step C	38.1514	3052.11	6612.91	79354.91
		Step D	40.0592	3204.74	6943.59	83323.14
		Step E	42.0621	3364.97	7290.76	87489.17
		Step F	44.1652	3533.22	7655.30	91863.62
		Step G	46.3735	3709.88	8038.07	96456.88
5022A	Park Development Analyst II-A	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.9684	3197.47	6927.86	83134.27
		Step C	41.9667	3357.34	7274.23	87290.74
		Step D	44.0652	3525.22	7637.97	91655.62
		Step E	46.2683	3701.46	8019.84	96238.06
		Step F	48.5818	3886.54	8420.85	101050.14
		Step G	51.0109	4080.87	8841.89	106102.67



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Appendix:J
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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5024A	Parks Planning and Development Superintendent-A	Step A	46.1624	3692.99	8001.48	96017.79
		Step B	48.4706	3877.65	8401.57	100818.85
		Step C	50.8941	4071.53	8821.64	105859.73
		Step D	53.4387	4275.10	9262.71	111152.50
		Step E	56.1111	4488.89	9725.92	116711.09
		Step F	58.9163	4713.30	10212.16	122545.90
		Step G	61.8619	4948.95	10722.73	128672.75
5082A	Parks Recreation and Libraries Director-A	Step A	75.4661	6037.29	13080.79	156969.49
		Step B	79.2394	6339.15	13734.83	164817.95
		Step C	83.2013	6656.10	14421.56	173058.70
		Step D	87.3613	6988.90	15142.63	181711.50
		Step E	91.7295	7338.36	15899.78	190797.36
		Step F	96.3159	7705.27	16694.76	200337.07
		Step G	101.1317	8090.54	17529.49	210353.94



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9547A	Parks Recreation and Libraries Manager-A	Step A	52.0310	4162.48	9018.71	108224.48
		Step B	54.6325	4370.60	9469.63	113635.60
		Step C	57.3639	4589.11	9943.08	119316.91
		Step D	60.2325	4818.60	10440.30	125283.60
		Step E	63.2438	5059.50	10962.26	131547.10
		Step F	66.4062	5312.50	11510.41	138124.90
		Step G	69.7265	5578.12	12085.93	145031.12
9546A	Parks Recreation and Libraries Superintendent-A	Step A	41.9658	3357.26	7274.07	87288.86
		Step B	44.0642	3525.14	7637.79	91653.54
		Step C	46.2674	3701.39	8019.68	96236.19
		Step D	48.5806	3886.45	8420.64	101047.65
		Step E	51.0100	4080.80	8841.73	106100.80
		Step F	53.5603	4284.82	9283.79	111405.42
		Step G	56.2381	4499.05	9747.94	116975.25



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5069A	Parks Supervisor-A	Step A	36.2522	2900.18	6283.71	75404.58
		Step B	38.0647	3045.18	6597.88	79174.58
		Step C	39.9681	3197.45	6927.80	83133.65
		Step D	41.9664	3357.31	7274.18	87290.11
		Step E	44.0648	3525.18	7637.90	91654.78
		Step F	46.2679	3701.43	8019.77	96237.23
		Step G	48.5813	3886.50	8420.76	101049.10
9428A	Payroll Supervisor-A	Step A	42.5518	3404.14	7375.65	88507.74
		Step B	44.6793	3574.34	7744.41	92932.94
		Step C	46.9133	3753.06	8131.64	97579.66
		Step D	49.2589	3940.71	8538.21	102458.51
		Step E	51.7219	4137.75	8965.13	107581.55
		Step F	54.3080	4344.64	9413.39	112960.64
		Step G	57.0234	4561.87	9884.06	118608.67



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1501A	Permits Supervisor-A	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.9684	3197.47	6927.86	83134.27
		Step C	41.9667	3357.34	7274.23	87290.74
		Step D	44.0652	3525.22	7637.97	91655.62
		Step E	46.2683	3701.46	8019.84	96238.06
		Step F	48.5818	3886.54	8420.85	101050.14
		Step G	51.0109	4080.87	8841.89	106102.67
5309A	Planning Manager-A	Step A	57.7618	4620.94	10012.05	120144.54
		Step B	60.6499	4851.99	10512.65	126151.79
		Step C	63.6824	5094.59	11038.28	132459.39
		Step D	66.8666	5349.33	11590.21	139082.53
		Step E	70.2100	5616.80	12169.73	146036.80
		Step F	73.7206	5897.65	12778.24	153338.85
		Step G	77.4064	6192.51	13417.11	161005.31



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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5400A	Police Captain-A	Step A	63.5109	5080.87	11008.56	132102.67
		Step B	66.6863	5334.90	11558.96	138707.50
		Step C	70.0207	5601.66	12136.92	145643.06
		Step D	73.5218	5881.74	12743.78	152925.34
		Step E	77.1978	6175.82	13380.95	160571.42
		Step F	81.0577	6484.62	14050.00	168600.02
		Step G	85.1106	6808.85	14752.50	177030.05
5410A	Police Chief-A	Step A	84.8574	6788.59	14708.62	176503.39
		Step B	89.1003	7128.02	15444.05	185328.62
		Step C	93.5553	7484.42	16216.25	194595.02
		Step D	98.2331	7858.65	17027.07	204324.85
		Step E	103.1447	8251.58	17878.41	214540.98
		Step F	108.3020	8664.16	18772.35	225268.16
		Step G	113.7171	9097.37	19710.96	236531.57



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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5420A	Police Lieutenant-A	Step A	55.8477	4467.82	9680.27	116163.22
		Step B	58.6402	4691.22	10164.30	121971.62
		Step C	61.5721	4925.77	10672.50	128069.97
		Step D	64.6507	5172.06	11206.12	134473.46
		Step E	67.8833	5430.66	11766.44	141197.26
		Step F	71.2774	5702.19	12354.75	148256.99
		Step G	74.8413	5987.30	12972.49	155669.90
5489A	Police Services Administrator-A	Step A	47.5669	3805.35	8244.93	98939.15
		Step B	49.9453	3995.62	8657.19	103886.22
		Step C	52.4425	4195.40	9090.03	109080.40
		Step D	55.0647	4405.18	9544.55	114534.58
		Step E	57.8179	4625.43	10021.77	120261.23
		Step F	60.7088	4856.70	10522.86	126274.30
		Step G	63.7443	5099.54	11049.01	132588.14



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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1039A	Police Social Services Practitioner-A	Step A	31.2076	2496.61	5409.32	64911.81
		Step B	32.7680	2621.44	5679.79	68157.44
		Step C	34.4064	2752.51	5963.78	71565.31
		Step D	36.1267	2890.14	6261.96	75143.54
		Step E	37.9330	3034.64	6575.05	78900.64
		Step F	39.8297	3186.38	6903.81	82845.78
		Step G	41.8212	3345.70	7249.01	86988.10
5505A	Power Engineering Manager-A	Step A	74.8532	5988.26	12974.55	155694.66
		Step B	78.5959	6287.67	13623.29	163479.47
		Step C	82.5257	6602.06	14304.45	171653.46
		Step D	86.6520	6932.16	15019.68	180236.16
		Step E	90.9847	7278.78	15770.68	189248.18
		Step F	95.5339	7642.71	16559.21	198710.51
		Step G	100.3105	8024.84	17387.15	208645.84



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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5600A	Power Generation Superintendent-A	Step A	71.1478	5691.82	12332.29	147987.42
		Step B	74.7052	5976.42	12948.90	155386.82
		Step C	78.4404	6275.23	13596.34	163156.03
		Step D	82.3625	6589.00	14276.17	171314.00
		Step E	86.4806	6918.45	14989.97	179879.65
		Step F	90.8047	7264.38	15739.48	188873.78
		Step G	95.3449	7627.59	16526.45	198317.39
5530A	Power Plant Operations and Maintenance Supervisor-A	Step A	67.7548	5420.38	11744.17	140929.98
		Step B	71.1425	5691.40	12331.37	147976.40
		Step C	74.6996	5975.97	12947.93	155375.17
		Step D	78.4346	6274.77	13595.33	163143.97
		Step E	82.3564	6588.51	14275.11	171301.31
		Step F	86.4742	6917.94	14988.86	179866.34
		Step G	90.7979	7263.83	15738.30	188859.63



City of Roseville

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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5535A	Power Supply and Portfolio Administrator-A	Step A	73.6042	5888.34	12758.06	153096.74
		Step B	77.2844	6182.75	13395.96	160751.55
		Step C	81.1487	6491.90	14065.77	168789.30
		Step D	85.2060	6816.48	14769.04	177228.48
		Step E	89.4664	7157.31	15507.51	186090.11
		Step F	93.9397	7515.18	16282.88	195394.58
		Step G	98.6367	7890.94	17097.03	205164.34
5519A	Preventative Maintenance Supervisor-A	Step A	51.5119	4120.95	8928.73	107144.75
		Step B	54.0875	4327.00	9375.17	112502.00
		Step C	56.7919	4543.35	9843.93	118127.15
		Step D	59.6315	4770.52	10336.13	124033.52
		Step E	62.6131	5009.05	10852.94	130235.25
		Step F	65.7437	5259.50	11395.57	136746.90
		Step G	69.0309	5522.47	11965.36	143584.27



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5514A	Principal Engineer-A	Step A	52.2508	4180.06	9056.81	108681.66
		Step B	54.8632	4389.06	9509.62	114115.46
		Step C	57.6065	4608.52	9985.13	119821.52
		Step D	60.4869	4838.95	10484.40	125812.75
		Step E	63.5113	5080.90	11008.63	132103.50
		Step F	66.6869	5334.95	11559.06	138708.75
		Step G	70.0209	5601.67	12136.96	145643.47
5513A	Principal Planner-A	Step A	48.2529	3860.23	8363.84	100366.03
		Step B	50.6656	4053.25	8782.04	105384.45
		Step C	53.1988	4255.90	9221.13	110653.50
		Step D	55.8587	4468.70	9682.17	116186.10
		Step E	58.6517	4692.14	10166.29	121995.54
		Step F	61.5842	4926.74	10674.59	128095.14
		Step G	64.6636	5173.09	11208.36	134500.29



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1004A	Process Engineer-A	Step A	52.2508	4180.06	9056.81	108681.66
		Step B	54.8632	4389.06	9509.62	114115.46
		Step C	57.6065	4608.52	9985.13	119821.52
		Step D	60.4869	4838.95	10484.40	125812.75
		Step E	63.5113	5080.90	11008.63	132103.50
		Step F	66.6869	5334.95	11559.06	138708.75
		Step G	70.0209	5601.67	12136.96	145643.47
5565A	Public Information Officer-A	Step A	45.9360	3674.88	7962.24	95546.88
		Step B	48.2328	3858.62	8360.35	100324.22
		Step C	50.6445	4051.56	8778.38	105340.56
		Step D	53.1766	4254.13	9217.28	110607.33
		Step E	55.8354	4466.83	9678.14	116137.63
		Step F	58.6273	4690.18	10162.07	121944.78
		Step G	61.5586	4924.69	10670.16	128041.89



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5635A	Public Works Director-A	Step A	74.6020	5968.16	12931.01	155172.16
		Step B	78.3321	6266.57	13577.56	162930.77
		Step C	82.2488	6579.90	14256.46	171077.50
		Step D	86.3612	6908.90	14969.27	179631.30
		Step E	90.6793	7254.34	15717.75	188612.94
		Step F	95.2132	7617.06	16503.62	198043.46
		Step G	99.9738	7997.90	17328.79	207945.50
5652A	Purchasing and Warehouse Manager-A	Step A	47.6408	3811.26	8257.74	99092.86
		Step B	50.0228	4001.82	8670.62	104047.42
		Step C	52.5239	4201.91	9104.14	109249.71
		Step D	55.1501	4412.01	9559.35	114712.21
		Step E	57.9076	4632.61	10037.32	120447.81
		Step F	60.8031	4864.25	10539.20	126470.45
		Step G	63.8432	5107.46	11066.15	132793.86



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Appendix:J
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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9544A	Recreation and Library Supervisor-A	Step A	36.2522	2900.18	6283.71	75404.58
		Step B	38.0647	3045.18	6597.88	79174.58
		Step C	39.9681	3197.45	6927.80	83133.65
		Step D	41.9664	3357.31	7274.18	87290.11
		Step E	44.0648	3525.18	7637.90	91654.78
		Step F	46.2679	3701.43	8019.77	96237.23
		Step G	48.5813	3886.50	8420.76	101049.10
6231A	Refuse Superintendent-A	Step A	44.4348	3554.78	7702.03	92424.38
		Step B	46.6565	3732.52	8087.13	97045.52
		Step C	48.9893	3919.14	8491.48	101897.74
		Step D	51.4389	4115.11	8916.08	106992.91
		Step E	54.0108	4320.86	9361.87	112342.46
		Step F	56.7114	4536.91	9829.98	117959.71
		Step G	59.5468	4763.74	10321.45	123857.34



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Appendix:J
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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6235A	Refuse Supervisor-A	Step A	35.1230	2809.84	6087.99	73055.84
		Step B	36.8792	2950.34	6392.39	76708.74
		Step C	38.7233	3097.86	6712.04	80544.46
		Step D	40.6587	3252.70	7047.51	84570.10
		Step E	42.6916	3415.33	7399.88	88798.53
		Step F	44.8260	3586.08	7769.84	93238.08
		Step G	47.0675	3765.40	8158.37	97900.40
6244A	Refuse and Stormwater Manager-A	Step A	58.7839	4702.71	10189.21	122270.51
		Step B	61.7232	4937.86	10698.69	128384.26
		Step C	64.8090	5184.72	11233.56	134802.72
		Step D	68.0497	5443.98	11795.28	141543.38
		Step E	71.4520	5716.16	12385.01	148620.16
		Step F	75.0245	6001.96	13004.25	156050.96
		Step G	78.7758	6302.06	13654.47	163853.66



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6450A	Risk Manager-A	Step A	52.2551	4180.41	9057.55	108690.61
		Step B	54.8678	4389.42	9510.42	114125.02
		Step C	57.6113	4608.90	9985.96	119831.50
		Step D	60.4919	4839.35	10485.26	125823.15
		Step E	63.5165	5081.32	11009.53	132114.32
		Step F	66.6923	5335.38	11560.00	138719.98
		Step G	70.0269	5602.15	12138.00	145655.95
6500A	Safety Coordinator-A	Step A	38.0651	3045.21	6597.95	79175.41
		Step B	39.9683	3197.46	6927.84	83134.06
		Step C	41.9666	3357.33	7274.21	87290.53
		Step D	44.0650	3525.20	7637.93	91655.20
		Step E	46.2682	3701.46	8019.82	96237.86
		Step F	48.5816	3886.53	8420.81	101049.73
		Step G	51.0109	4080.87	8841.89	106102.67



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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7130A	Senior Business Systems Analyst-A	Step A	36.1708	2893.66	6269.61	75235.26
		Step B	37.9793	3038.34	6583.08	78996.94
		Step C	39.8783	3190.26	6912.24	82946.86
		Step D	41.8722	3349.78	7257.85	87094.18
		Step E	43.9658	3517.26	7620.74	91448.86
		Step F	46.1641	3693.13	8001.78	96021.33
		Step G	48.4722	3877.78	8401.85	100822.18
7145A	Senior Database Analyst-A	Step A	39.7243	3177.94	6885.55	82626.54
		Step B	41.7106	3336.85	7229.84	86758.05
		Step C	43.7961	3503.69	7591.32	91095.89
		Step D	45.9858	3678.86	7970.87	95650.46
		Step E	48.2852	3862.82	8369.43	100433.22
		Step F	50.6994	4055.95	8787.90	105454.75
		Step G	53.2344	4258.75	9227.30	110727.55



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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7123A	Senior Deputy City Attorney-A	Step A	72.3926	5791.41	12548.05	150576.61
		Step B	76.0123	6080.98	13175.47	158105.58
		Step C	79.8130	6385.04	13834.25	166011.04
		Step D	83.8036	6704.29	14525.96	174311.49
		Step E	87.9938	7039.50	15252.26	183027.10
		Step F	92.3934	7391.47	16014.86	192178.27
		Step G	97.0131	7761.05	16815.60	201787.25
1281A	Senior Development Services Analyst-A	Step A	36.3253	2906.02	6296.39	75556.62
		Step B	38.1415	3051.32	6611.19	79334.32
		Step C	40.0486	3203.89	6941.76	83301.09
		Step D	42.0511	3364.09	7288.86	87466.29
		Step E	44.1536	3532.29	7653.29	91839.49
		Step F	46.3613	3708.90	8035.96	96431.50
		Step G	48.6793	3894.34	8437.75	101252.94



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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7128A	Senior Electric Business Analyst-A	Step A	54.5605	4364.84	9457.15	113485.84
		Step B	57.2885	4583.08	9930.01	119160.08
		Step C	60.1530	4812.24	10426.52	125118.24
		Step D	63.1606	5052.85	10947.84	131374.05
		Step E	66.3186	5305.49	11495.22	137942.69
		Step F	69.6345	5570.76	12069.98	144839.76
		Step G	73.1164	5849.31	12673.51	152082.11
1023A	Senior Electric Technology Systems Analyst-A	Step A	51.4809	4118.47	8923.36	107080.27
		Step B	54.0549	4324.39	9369.52	112434.19
		Step C	56.7577	4540.62	9838.00	118056.02
		Step D	59.5956	4767.65	10329.90	123958.85
		Step E	62.5753	5006.02	10846.39	130156.62
		Step F	65.7041	5256.33	11388.71	136664.53
		Step G	68.9893	5519.14	11958.15	143497.74



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7163A	Senior Energy Services Account Representative-A	Step A	53.1263	4250.10	9208.56	110502.70
		Step B	55.7827	4462.62	9669.00	116028.02
		Step C	58.5718	4685.74	10152.45	121829.34
		Step D	61.5004	4920.03	10660.07	127920.83
		Step E	64.5754	5166.03	11193.07	134316.83
		Step F	67.8042	5424.34	11752.73	141032.74
		Step G	71.1944	5695.55	12340.36	148084.35
7142A	Senior Engineer-A	Step A	46.6732	3733.86	8090.02	97080.26
		Step B	49.0070	3920.56	8494.55	101934.56
		Step C	51.4573	4116.58	8919.27	107031.18
		Step D	54.0303	4322.42	9365.25	112383.02
		Step E	56.7315	4538.52	9833.46	118001.52
		Step F	59.5683	4765.46	10325.17	123902.06
		Step G	62.5467	5003.74	10841.43	130097.14



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7161A	Senior GIS Analyst-A	Step A	36.1680	2893.44	6269.12	75229.44
		Step B	37.9764	3038.11	6582.58	78990.91
		Step C	39.8752	3190.02	6911.70	82940.42
		Step D	41.8691	3349.53	7257.31	87087.73
		Step E	43.9625	3517.00	7620.17	91442.00
		Step F	46.1607	3692.86	8001.19	96014.26
		Step G	48.4686	3877.49	8401.22	100814.69
7150A	Senior Human Resources Analyst-A	Step A	39.9684	3197.47	6927.86	83134.27
		Step B	41.9667	3357.34	7274.23	87290.74
		Step C	44.0652	3525.22	7637.97	91655.62
		Step D	46.2683	3701.46	8019.84	96238.06
		Step E	48.5818	3886.54	8420.85	101050.14
		Step F	51.0109	4080.87	8841.89	106102.67
		Step G	53.5613	4284.90	9283.96	111407.50



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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7194A	Senior Information Technology Analyst-A	Step A	37.9828	3038.62	6583.69	79004.22
		Step B	39.8820	3190.56	6912.88	82954.56
		Step C	41.8760	3350.08	7258.51	87102.08
		Step D	43.9699	3517.59	7621.45	91457.39
		Step E	46.1684	3693.47	8002.52	96030.27
		Step F	48.4768	3878.14	8402.65	100831.74
		Step G	50.9006	4072.05	8822.77	105873.25
7180A	Senior Planner-A	Step A	41.9600	3356.80	7273.07	87276.80
		Step B	44.0580	3524.64	7636.72	91640.64
		Step C	46.2609	3700.87	8018.56	96222.67
		Step D	48.5739	3885.91	8419.48	101033.71
		Step E	51.0027	4080.22	8840.47	106085.62
		Step F	53.5529	4284.23	9282.50	111390.03
		Step G	56.2304	4498.43	9746.60	116959.23



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Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7151A	Senior Power Engineer-A	Step A	66.2400	5299.20	11481.60	137779.20
		Step B	69.5519	5564.15	12055.66	144667.95
		Step C	73.0296	5842.37	12658.46	151901.57
		Step D	76.6811	6134.49	13291.39	159496.69
		Step E	80.5151	6441.21	13955.95	167471.41
		Step F	84.5408	6763.26	14653.74	175844.86
		Step G	88.7679	7101.43	15386.44	184637.23
5555A	Senior Power Plant Engineer-A	Step A	66.2400	5299.20	11481.60	137779.20
		Step B	69.5519	5564.15	12055.66	144667.95
		Step C	73.0296	5842.37	12658.46	151901.57
		Step D	76.6811	6134.49	13291.39	159496.69
		Step E	80.5151	6441.21	13955.95	167471.41
		Step F	84.5408	6763.26	14653.74	175844.86
		Step G	88.7679	7101.43	15386.44	184637.23



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1029A	Senior Utility Billing Analyst-A	Step A	42.5475	3403.80	7374.90	88498.80
		Step B	44.6749	3573.99	7743.65	92923.79
		Step C	46.9086	3752.69	8130.82	97569.89
		Step D	49.2541	3940.33	8537.38	102448.53
		Step E	51.7168	4137.34	8964.25	107570.94
		Step F	54.3026	4344.21	9412.45	112949.41
		Step G	57.0177	4561.42	9883.07	118596.82
7520A	Street Maintenance Superintendent-A	Step A	44.4419	3555.35	7703.26	92439.15
		Step B	46.6637	3733.10	8088.37	97060.50
		Step C	48.9969	3919.75	8492.80	101913.55
		Step D	51.4469	4115.75	8917.46	107009.55
		Step E	54.0194	4321.55	9363.36	112360.35
		Step F	56.7204	4537.63	9831.54	117978.43
		Step G	59.5561	4764.49	10323.06	123876.69



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MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7522A	Street Maintenance Supervisor-A	Step A	33.9502	2716.02	5884.70	70616.42
		Step B	35.6477	2851.82	6178.93	74147.22
		Step C	37.4301	2994.41	6487.88	77854.61
		Step D	39.3016	3144.13	6812.28	81747.33
		Step E	41.2667	3301.34	7152.89	85834.74
		Step F	43.3301	3466.41	7510.55	90126.61
		Step G	45.4965	3639.72	7886.06	94632.72
8762A	Urban Forester-A	Step A	36.2522	2900.18	6283.71	75404.58
		Step B	38.0646	3045.17	6597.86	79174.37
		Step C	39.9680	3197.44	6927.79	83133.44
		Step D	41.9664	3357.31	7274.18	87290.11
		Step E	44.0648	3525.18	7637.90	91654.78
		Step F	46.2679	3701.43	8019.77	96237.23
		Step G	48.5813	3886.50	8420.76	101049.10



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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1646A	Utility Government Relations Administrator-A	Step A	46.0250	3682.00	7977.67	95732.00
		Step B	48.3263	3866.10	8376.56	100518.70
		Step C	50.7425	4059.40	8795.37	105544.40
		Step D	53.2797	4262.38	9235.15	110821.78
		Step E	55.9437	4475.50	9696.91	116362.90
		Step F	58.7409	4699.27	10181.76	122181.07
		Step G	61.6779	4934.23	10690.84	128290.03
8980A	Wastewater Collection Superintendent-A	Step A	44.4348	3554.78	7702.03	92424.38
		Step B	46.6565	3732.52	8087.13	97045.52
		Step C	48.9893	3919.14	8491.48	101897.74
		Step D	51.4389	4115.11	8916.08	106992.91
		Step E	54.0108	4320.86	9361.87	112342.46
		Step F	56.7114	4536.91	9829.98	117959.71
		Step G	59.5468	4763.74	10321.45	123857.34



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MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8978A	Wastewater Collection Supervisor-A	Step A	36.2523	2900.18	6283.73	75404.78
		Step B	38.0647	3045.18	6597.88	79174.58
		Step C	39.9681	3197.45	6927.80	83133.65
		Step D	41.9664	3357.31	7274.18	87290.11
		Step E	44.0649	3525.19	7637.92	91654.99
		Step F	46.2679	3701.43	8019.77	96237.23
		Step G	48.5813	3886.50	8420.76	101049.10
9040A	Wastewater Treatment Plant Chief Operator-A	Step A	47.8509	3828.07	8294.16	99529.87
		Step B	50.2436	4019.49	8708.89	104506.69
		Step C	52.7555	4220.44	9144.29	109731.44
		Step D	55.3935	4431.48	9601.54	115218.48
		Step E	58.1629	4653.03	10081.57	120978.83
		Step F	61.0712	4885.70	10585.67	127028.10
		Step G	64.1246	5129.97	11114.93	133379.17



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9045A	Wastewater Utility Manager-A	Step A	58.7839	4702.71	10189.21	122270.51
		Step B	61.7232	4937.86	10698.69	128384.26
		Step C	64.8090	5184.72	11233.56	134802.72
		Step D	68.0497	5443.98	11795.28	141543.38
		Step E	71.4520	5716.16	12385.01	148620.16
		Step F	75.0245	6001.96	13004.25	156050.96
		Step G	78.7758	6302.06	13654.47	163853.66
9047A	Water Conservation Administrator-A	Step A	39.9910	3199.28	6931.77	83181.28
		Step B	41.9906	3359.25	7278.37	87340.45
		Step C	44.0901	3527.21	7642.28	91707.41
		Step D	46.2946	3703.57	8024.40	96292.77
		Step E	48.6093	3888.74	8425.61	101107.34
		Step F	51.0401	4083.21	8846.95	106163.41
		Step G	53.5919	4287.35	9289.26	111471.15



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9085A	Water Distribution Superintendent-A	Step A	43.7794	3502.35	7588.43	91061.15
		Step B	46.6565	3732.52	8087.13	97045.52
		Step C	48.9893	3919.14	8491.48	101897.74
		Step D	51.4389	4115.11	8916.08	106992.91
		Step E	54.0108	4320.86	9361.87	112342.46
		Step F	56.7114	4536.91	9829.98	117959.71
		Step G	59.5468	4763.74	10321.45	123857.34
9084A	Water Distribution Supervisor-A	Step A	36.2522	2900.18	6283.71	75404.58
		Step B	38.0647	3045.18	6597.88	79174.58
		Step C	39.9681	3197.45	6927.80	83133.65
		Step D	41.9664	3357.31	7274.18	87290.11
		Step E	44.0648	3525.18	7637.90	91654.78
		Step F	46.2679	3701.43	8019.77	96237.23
		Step G	48.5813	3886.50	8420.76	101049.10



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9101A	Water Quality Lab Supervisor-A	Step A	38.0634	3045.07	6597.66	79171.87
		Step B	39.9665	3197.32	6927.53	83130.32
		Step C	41.9649	3357.19	7273.92	87286.99
		Step D	44.0630	3525.04	7637.59	91651.04
		Step E	46.2663	3701.30	8019.49	96233.90
		Step F	48.5796	3886.37	8420.46	101045.57
		Step G	51.0084	4080.67	8841.46	106097.47
9175A	Water Treatment Plant Chief Operator-A	Step A	43.5007	3480.06	7540.12	90481.46
		Step B	45.6759	3654.07	7917.16	95005.87
		Step C	47.9595	3836.76	8312.98	99755.76
		Step D	50.3577	4028.62	8728.67	104744.02
		Step E	52.8753	4230.02	9165.05	109980.62
		Step F	55.5193	4441.54	9623.35	115480.14
		Step G	58.2951	4663.61	10104.48	121253.81



City of Roseville

Salary Schedule: Management-A

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9244A	Water Utility Manager-A	Step A	58.7839	4702.71	10189.21	122270.51
		Step B	61.7232	4937.86	10698.69	128384.26
		Step C	64.8090	5184.72	11233.56	134802.72
		Step D	68.0497	5443.98	11795.28	141543.38
		Step E	71.4520	5716.16	12385.01	148620.16
		Step F	75.0245	6001.96	13004.25	156050.96
		Step G	78.7758	6302.06	13654.47	163853.66



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1505B	AMI Project Manager-B	Step A	50.7919	4063.35	8803.93	105647.15
		Step B	52.0463	4163.70	9021.36	108256.30
		Step C	53.3316	4266.53	9244.14	110929.73
		Step D	54.6487	4371.90	9472.44	113669.30
		Step E	55.9983	4479.86	9706.37	116476.46
		Step F	57.3812	4590.50	9946.07	119352.90
		Step G	58.7983	4703.86	10191.71	122300.46
		Step H	60.2504	4820.03	10443.40	125320.83
		Step I	61.7383	4939.06	10701.31	128415.66
		Step J	63.2630	5061.04	10965.59	131587.04
		Step K	64.8253	5186.02	11236.39	134836.62
		Step L	66.4263	5314.10	11513.89	138166.70
		Step M	68.0668	5445.34	11798.25	141578.94



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
0043B	Accounting Supervisor-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	44.4810	3558.48	7710.04	92520.48
Step B	45.5795	3646.36	7900.45	94805.36
Step C	46.7051	3736.41	8095.55	97146.61
Step D	47.8586	3828.69	8295.49	99545.89
Step E	49.0405	3923.24	8500.35	102004.24
Step F	50.2516	4020.13	8710.28	104523.33
Step G	51.4926	4119.41	8925.38	107104.61
Step H	52.7642	4221.14	9145.79	109749.54
Step I	54.0673	4325.38	9371.67	112459.98
Step J	55.4026	4432.21	9603.12	115237.41
Step K	56.7708	4541.66	9840.27	118083.26
Step L	58.1728	4653.82	10083.29	120999.42
Step M	59.6095	4768.76	10332.31	123987.76



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9427B	Accounts Payable Supervisor-B	Step A	42.5513	3404.10	7375.56	88506.70
		Step B	43.6021	3488.17	7557.70	90692.37
		Step C	44.6789	3574.31	7744.34	92932.11
		Step D	45.7823	3662.58	7935.60	95227.18
		Step E	46.9130	3753.04	8131.59	97579.04
		Step F	48.0715	3845.72	8332.39	99988.72
		Step G	49.2587	3940.70	8538.17	102458.10
		Step H	50.4752	4038.02	8749.03	104988.42
		Step I	51.7217	4137.74	8965.09	107581.14
		Step J	52.9991	4239.93	9186.51	110238.13
		Step K	54.3079	4344.63	9413.37	112960.43
		Step L	55.6491	4451.93	9645.84	115750.13
		Step M	57.0234	4561.87	9884.06	118608.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0045B	Administrative Analyst I-B	Step A	34.6046	2768.37	5998.13	71977.57
		Step B	35.4588	2836.70	6146.19	73754.30
		Step C	36.3345	2906.76	6297.98	75575.76
		Step D	37.2318	2978.54	6453.51	77442.14
		Step E	38.1513	3052.10	6612.89	79354.70
		Step F	39.0935	3127.48	6776.21	81314.48
		Step G	40.0590	3204.72	6943.56	83322.72
		Step H	41.0482	3283.86	7115.02	85380.26
		Step I	42.0620	3364.96	7290.75	87488.96
		Step J	43.1007	3448.06	7470.79	89649.46
		Step K	44.1651	3533.21	7655.28	91863.41
		Step L	45.2559	3620.47	7844.36	94132.27
		Step M	46.3735	3709.88	8038.07	96456.88



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0050B	Administrative Analyst II-B	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.0048	3120.38	6760.83	81129.98
		Step C	39.9679	3197.43	6927.77	83133.23
		Step D	40.9550	3276.40	7098.87	85186.40
		Step E	41.9664	3357.31	7274.18	87290.11
		Step F	43.0029	3440.23	7453.84	89446.03
		Step G	44.0649	3525.19	7637.92	91654.99
		Step H	45.1531	3612.25	7826.54	93918.45
		Step I	46.2682	3701.46	8019.82	96237.86
		Step J	47.4109	3792.87	8217.89	98614.67
		Step K	48.5816	3886.53	8420.81	101049.73
		Step L	49.7815	3982.52	8628.79	103545.52
		Step M	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0086B	Alternative Transportation Analyst I-B	Step A	35.1221	2809.77	6087.83	73053.97
		Step B	35.9892	2879.14	6238.13	74857.54
		Step C	36.8781	2950.25	6392.20	76706.45
		Step D	37.7888	3023.10	6550.06	78600.70
		Step E	38.7221	3097.77	6711.83	80541.97
		Step F	39.6784	3174.27	6877.59	82531.07
		Step G	40.6583	3252.66	7047.44	84569.26
		Step H	41.6624	3332.99	7221.48	86657.79
		Step I	42.6912	3415.30	7399.81	88797.70
		Step J	43.7455	3499.64	7582.55	90990.64
		Step K	44.8259	3586.07	7769.82	93237.87
		Step L	45.9329	3674.63	7961.70	95540.43
		Step M	47.0672	3765.38	8158.31	97899.78



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0088B	Alternative Transportation Analyst II-B	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.0048	3120.38	6760.83	81129.98
		Step C	39.9679	3197.43	6927.77	83133.23
		Step D	40.9550	3276.40	7098.87	85186.40
		Step E	41.9664	3357.31	7274.18	87290.11
		Step F	43.0029	3440.23	7453.84	89446.03
		Step G	44.0649	3525.19	7637.92	91654.99
		Step H	45.1531	3612.25	7826.54	93918.45
		Step I	46.2682	3701.46	8019.82	96237.86
		Step J	47.4109	3792.87	8217.89	98614.67
		Step K	48.5816	3886.53	8420.81	101049.73
		Step L	49.7815	3982.52	8628.79	103545.52
		Step M	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0090B	Alternative Transportation Manager-B	Step A	56.6053	4528.42	9811.59	117739.02
		Step B	58.0032	4640.26	10053.89	120646.66
		Step C	59.4356	4754.85	10302.17	123626.05
		Step D	60.9035	4872.28	10556.61	126679.28
		Step E	62.4075	4992.60	10817.30	129807.60
		Step F	63.9488	5115.90	11084.46	133013.50
		Step G	65.5280	5242.24	11358.19	136298.24
		Step H	67.1464	5371.71	11638.71	139664.51
		Step I	68.8046	5504.37	11926.13	143113.57
		Step J	70.5038	5640.30	12220.66	146647.90
		Step K	72.2449	5779.59	12522.45	150269.39
		Step L	74.0291	5922.33	12831.71	153980.53
		Step M	75.8573	6068.58	13148.60	157783.18



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0245B	Assistant City Attorney-B	Step A	83.2506	6660.05	14430.10	173161.25
		Step B	85.3067	6824.54	14786.49	177437.94
		Step C	87.4134	6993.07	15151.66	181819.87
		Step D	89.5721	7165.77	15525.83	186309.97
		Step E	91.7842	7342.74	15909.26	190911.14
		Step F	94.0509	7524.07	16302.16	195625.87
		Step G	96.3736	7709.89	16704.76	200457.09
		Step H	98.7537	7900.30	17117.31	205407.70
		Step I	101.1924	8095.39	17540.02	210480.19
		Step J	103.6915	8295.32	17973.19	215678.32
		Step K	106.2523	8500.18	18417.07	221004.78
		Step L	108.8762	8710.10	18871.87	226462.50
		Step M	111.5650	8925.20	19337.93	232055.20



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
0250B	Assistant City Clerk-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	44.0141	3521.13	7629.11	91549.33
Step B	45.1006	3608.05	7817.44	93809.25
Step C	46.2144	3697.15	8010.50	96125.95
Step D	47.3557	3788.46	8208.32	98499.86
Step E	48.5252	3882.02	8411.03	100932.42
Step F	49.7236	3977.89	8618.76	103425.09
Step G	50.9516	4076.13	8831.61	105979.33
Step H	52.2099	4176.79	9049.72	108596.59
Step I	53.4993	4279.94	9273.21	111278.54
Step J	54.8205	4385.64	9502.22	114026.64
Step K	56.1743	4493.94	9736.88	116842.54
Step L	57.5616	4604.93	9977.34	119728.13
Step M	58.9832	4718.66	10223.75	122685.06



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0325B	Assistant City Manager-B	Step A	84.9734	6797.87	14728.72	176744.67
		Step B	87.0719	6965.75	15092.46	181109.55
		Step C	89.2223	7137.78	15465.20	185582.38
		Step D	91.4257	7314.06	15847.12	190165.46
		Step E	93.6835	7494.68	16238.47	194861.68
		Step F	95.9971	7679.77	16639.50	199673.97
		Step G	98.3679	7869.43	17050.44	204605.23
		Step H	100.7972	8063.78	17471.51	209658.18
		Step I	103.2864	8262.91	17902.98	214835.71
		Step J	105.8372	8466.98	18345.11	220141.38
		Step K	108.4510	8676.08	18798.17	225578.08
		Step L	111.1293	8890.34	19262.41	231148.94
		Step M	113.8737	9109.90	19738.11	236857.30



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1021B	Assistant City Manager/Chief Financial Officer-B	Step A	84.9734	6797.87	14728.72	176744.67
		Step B	87.0719	6965.75	15092.46	181109.55
		Step C	89.2223	7137.78	15465.20	185582.38
		Step D	91.4257	7314.06	15847.12	190165.46
		Step E	93.6835	7494.68	16238.47	194861.68
		Step F	95.9971	7679.77	16639.50	199673.97
		Step G	98.3679	7869.43	17050.44	204605.23
		Step H	100.7972	8063.78	17471.51	209658.18
		Step I	103.2864	8262.91	17902.98	214835.71
		Step J	105.8372	8466.98	18345.11	220141.38
		Step K	108.4510	8676.08	18798.17	225578.08
		Step L	111.1293	8890.34	19262.41	231148.94
		Step M	113.8737	9109.90	19738.11	236857.30



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0395B	Assistant Electric Utility Director-B	Step A	86.0804	6886.43	14920.60	179047.23
		Step B	88.2062	7056.50	15289.07	183468.90
		Step C	90.3846	7230.77	15666.66	187999.97
		Step D	92.6168	7409.34	16053.58	192642.94
		Step E	94.9040	7592.32	16450.03	197400.32
		Step F	97.2477	7779.82	16856.27	202275.22
		Step G	99.6494	7971.95	17272.56	207270.75
		Step H	102.1103	8168.82	17699.12	212389.42
		Step I	104.6321	8370.57	18136.23	217634.77
		Step J	107.2161	8577.29	18584.12	223009.49
		Step K	109.8639	8789.11	19043.08	228516.91
		Step L	112.5771	9006.17	19513.36	234160.37
		Step M	115.3573	9228.58	19995.27	239943.18



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0411B	Assistant Environmental Utilities Director-B	Step A	66.3943	5311.54	11508.35	138100.14
		Step B	68.0340	5442.72	11792.56	141510.72
		Step C	69.7142	5577.14	12083.79	145005.54
		Step D	71.4359	5714.87	12382.22	148586.67
		Step E	73.1999	5855.99	12687.98	152255.79
		Step F	75.0077	6000.62	13001.33	156016.02
		Step G	76.8601	6148.81	13322.42	159869.01
		Step H	78.7582	6300.66	13651.42	163817.06
		Step I	80.7033	6456.26	13988.57	167862.86
		Step J	82.6963	6615.70	14334.03	172008.30
		Step K	84.7386	6779.09	14688.02	176256.29
		Step L	86.8313	6946.50	15050.76	180609.10
		Step M	88.9757	7118.06	15422.45	185069.46



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1026B	Assistant Finance Director-B	Step A	61.6510	4932.08	10686.17	128234.08
		Step B	63.1729	5053.83	10949.97	131399.63
		Step C	64.7330	5178.64	11220.39	134644.64
		Step D	66.3316	5306.53	11497.48	137969.73
		Step E	67.9697	5437.58	11781.41	141376.98
		Step F	69.6483	5571.86	12072.37	144868.46
		Step G	71.3683	5709.46	12370.51	148446.06
		Step H	73.1309	5850.47	12676.02	152112.27
		Step I	74.9369	5994.95	12989.06	155868.75
		Step J	76.7875	6143.00	13309.83	159718.00
		Step K	78.6839	6294.71	13638.54	163662.51
		Step L	80.6271	6450.17	13975.36	167704.37
		Step M	82.6182	6609.46	14320.49	171845.86



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0480B	Assistant Fire Chief-B	Step A	63.7340	5098.72	11047.23	132566.72
		Step B	65.3073	5224.58	11319.93	135839.18
		Step C	66.9201	5353.61	11599.48	139193.81
		Step D	68.5728	5485.82	11885.95	142631.42
		Step E	70.2663	5621.30	12179.49	146153.90
		Step F	72.0015	5760.12	12480.26	149763.12
		Step G	73.7797	5902.38	12788.48	153461.78
		Step H	75.6017	6048.14	13104.29	157251.54
		Step I	77.4688	6197.50	13427.93	161135.10
		Step J	79.3821	6350.57	13759.56	165114.77
		Step K	81.3425	6507.40	14099.37	169192.40
		Step L	83.3513	6668.10	14447.56	173370.70
		Step M	85.4098	6832.78	14804.37	177652.38



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0484B	Assistant Human Resources Director-B	Step A	52.2551	4180.41	9057.55	108690.61
		Step B	53.5451	4283.61	9281.15	111373.81
		Step C	54.8674	4389.39	9510.35	114124.19
		Step D	56.2225	4497.80	9745.23	116942.80
		Step E	57.6109	4608.87	9985.89	119830.67
		Step F	59.0336	4722.69	10232.49	122789.89
		Step G	60.4916	4839.33	10485.21	125822.53
		Step H	61.9855	4958.84	10744.15	128929.84
		Step I	63.5162	5081.30	11009.47	132113.70
		Step J	65.0847	5206.78	11281.35	135376.18
		Step K	66.6920	5335.36	11559.95	138719.36
		Step L	68.3391	5467.13	11845.44	142145.33
		Step M	70.0269	5602.15	12138.00	145655.95



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9558B	Assistant Information Technology Director-B	Step A	54.5775	4366.20	9460.10	113521.20
		Step B	55.9247	4473.98	9693.61	116323.38
		Step C	57.3059	4584.47	9933.02	119196.27
		Step D	58.7211	4697.69	10178.32	122139.89
		Step E	60.1713	4813.70	10429.69	125156.30
		Step F	61.6573	4932.58	10687.27	128247.18
		Step G	63.1799	5054.39	10951.18	131414.19
		Step H	64.7402	5179.22	11221.63	134659.62
		Step I	66.3390	5307.12	11498.76	137985.12
		Step J	67.9774	5438.19	11782.75	141392.99
		Step K	69.6561	5572.49	12073.72	144884.69
		Step L	71.3764	5710.11	12371.91	148462.91
		Step M	73.1390	5851.12	12677.43	152129.12



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0510B	Assistant Police Chief-B	Step A	70.7531	5660.25	12263.87	147166.45
		Step B	72.4996	5799.97	12566.60	150799.17
		Step C	74.2900	5943.20	12876.93	154523.20
		Step D	76.1247	6089.98	13194.95	158339.38
		Step E	78.0047	6240.38	13520.81	162249.78
		Step F	79.9311	6394.49	13854.72	166256.69
		Step G	81.9050	6552.40	14196.87	170362.40
		Step H	83.9278	6714.22	14547.49	174569.82
		Step I	86.0005	6880.04	14906.75	178881.04
		Step J	88.1244	7049.95	15274.90	183298.75
		Step K	90.3007	7224.06	15652.12	187825.46
		Step L	92.5308	7402.46	16038.67	192464.06
		Step M	94.8159	7585.27	16434.76	197217.07



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0920B	Billing Services Manager-B	Step A	52.2460	4179.68	9055.97	108671.68
		Step B	53.5362	4282.90	9279.61	111355.30
		Step C	54.8584	4388.67	9508.79	114105.47
		Step D	56.2132	4497.06	9743.62	116923.46
		Step E	57.6014	4608.11	9984.24	119810.91
		Step F	59.0239	4721.91	10230.81	122769.71
		Step G	60.4816	4838.53	10483.48	125801.73
		Step H	61.9753	4958.02	10742.39	128908.62
		Step I	63.5058	5080.46	11007.67	132092.06
		Step J	65.0741	5205.93	11279.51	135354.13
		Step K	66.6812	5334.50	11558.07	138696.90
		Step L	68.3279	5466.23	11843.50	142122.03
		Step M	70.0154	5601.23	12136.00	145632.03



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0910B	Budget Analyst I-B	Step A	35.8245	2865.96	6209.58	74514.96
		Step B	36.7087	2936.70	6362.84	76354.10
		Step C	37.6153	3009.22	6519.99	78239.82
		Step D	38.5443	3083.54	6681.01	80172.14
		Step E	39.4962	3159.70	6846.01	82152.10
		Step F	40.4715	3237.72	7015.06	84180.72
		Step G	41.4710	3317.68	7188.31	86259.68
		Step H	42.4952	3399.62	7365.83	88390.02
		Step I	43.5447	3483.58	7547.75	90572.98
		Step J	44.6200	3569.60	7734.13	92809.60
		Step K	45.7220	3657.76	7925.15	95101.76
		Step L	46.8511	3748.09	8120.86	97450.29
		Step M	48.0082	3840.66	8321.42	99857.06



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0915B	Budget Analyst II-B	Step A	38.8258	3106.06	6729.81	80757.66
		Step B	39.7842	3182.74	6895.93	82751.14
		Step C	40.7668	3261.34	7066.25	84794.94
		Step D	41.7735	3341.88	7240.74	86888.88
		Step E	42.8053	3424.42	7419.59	89035.02
		Step F	43.8623	3508.98	7602.80	91233.58
		Step G	44.9455	3595.64	7790.55	93486.64
		Step H	46.0555	3684.44	7982.95	95795.44
		Step I	47.1929	3775.43	8180.10	98161.23
		Step J	48.3584	3868.67	8382.12	100585.47
		Step K	49.5527	3964.22	8589.13	103069.62
		Step L	50.7764	4062.11	8801.24	105614.91
		Step M	52.0304	4162.43	9018.60	108223.23



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
0930B	Budget Manager-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	52.2460	4179.68	9055.97	108671.68
Step B	53.5362	4282.90	9279.61	111355.30
Step C	54.8584	4388.67	9508.79	114105.47
Step D	56.2132	4497.06	9743.62	116923.46
Step E	57.6014	4608.11	9984.24	119810.91
Step F	59.0239	4721.91	10230.81	122769.71
Step G	60.4816	4838.53	10483.48	125801.73
Step H	61.9753	4958.02	10742.39	128908.62
Step I	63.5058	5080.46	11007.67	132092.06
Step J	65.0741	5205.93	11279.51	135354.13
Step K	66.6812	5334.50	11558.07	138696.90
Step L	68.3279	5466.23	11843.50	142122.03
Step M	70.0154	5601.23	12136.00	145632.03



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1017B	Building Inspection Supervisor-B	Step A	41.9600	3356.80	7273.07	87276.80
		Step B	42.9958	3439.66	7452.61	89431.26
		Step C	44.0576	3524.61	7636.65	91639.81
		Step D	45.1458	3611.66	7825.27	93903.26
		Step E	46.2606	3700.85	8018.50	96222.05
		Step F	47.4030	3792.24	8216.52	98598.24
		Step G	48.5738	3885.90	8419.46	101033.50
		Step H	49.7733	3981.86	8627.37	103528.46
		Step I	51.0024	4080.19	8840.42	106084.99
		Step J	52.2621	4180.97	9058.76	108705.17
		Step K	53.5527	4284.22	9282.47	111389.62
		Step L	54.8752	4390.02	9511.70	114140.42
		Step M	56.2304	4498.43	9746.60	116959.23



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
1043B	Building Official-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	53.7807	4302.46	9321.99	111863.86
Step B	55.1088	4408.70	9552.19	114626.30
Step C	56.4698	4517.58	9788.10	117457.18
Step D	57.8644	4629.15	10029.83	120357.95
Step E	59.2935	4743.48	10277.54	123330.48
Step F	60.7578	4860.62	10531.35	126376.22
Step G	62.2582	4980.66	10791.42	129497.06
Step H	63.7957	5103.66	11057.92	132695.06
Step I	65.3712	5229.70	11331.01	135972.10
Step J	66.9857	5358.86	11610.85	139330.26
Step K	68.6399	5491.19	11897.58	142770.99
Step L	70.3351	5626.81	12191.42	146297.01
Step M	72.0720	5765.76	12492.48	149909.76



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1180B	Chief Information Officer-B	Step A	68.2212	5457.70	11825.01	141900.10
		Step B	69.9060	5592.48	12117.04	145404.48
		Step C	71.6324	5730.59	12416.28	148995.39
		Step D	73.4014	5872.11	12722.91	152674.91
		Step E	75.2141	6017.13	13037.11	156445.33
		Step F	77.0716	6165.73	13359.08	160308.93
		Step G	78.9749	6317.99	13688.98	164267.79
		Step H	80.9253	6474.02	14027.05	168324.62
		Step I	82.9238	6633.90	14373.46	172481.50
		Step J	84.9717	6797.74	14728.43	176741.14
		Step K	87.0702	6965.62	15092.17	181106.02
		Step L	89.2205	7137.64	15464.89	185578.64
		Step M	91.4239	7313.91	15846.81	190161.71



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1220B	City Clerk-B	Step A	68.2212	5457.70	11825.01	141900.10
		Step B	69.9060	5592.48	12117.04	145404.48
		Step C	71.6324	5730.59	12416.28	148995.39
		Step D	73.4014	5872.11	12722.91	152674.91
		Step E	75.2141	6017.13	13037.11	156445.33
		Step F	77.0716	6165.73	13359.08	160308.93
		Step G	78.9749	6317.99	13688.98	164267.79
		Step H	80.9253	6474.02	14027.05	168324.62
		Step I	82.9238	6633.90	14373.46	172481.50
		Step J	84.9717	6797.74	14728.43	176741.14
		Step K	87.0702	6965.62	15092.17	181106.02
		Step L	89.2205	7137.64	15464.89	185578.64
		Step M	91.4239	7313.91	15846.81	190161.71



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1368B	Code Enforcement Supervisor-B	Step A	40.8688	3269.50	7083.93	85007.10
		Step B	41.8781	3350.25	7258.87	87106.45
		Step C	42.9123	3432.98	7438.13	89257.58
		Step D	43.9721	3517.77	7621.83	91461.97
		Step E	45.0580	3604.64	7810.05	93720.64
		Step F	46.1707	3693.66	8002.92	96035.06
		Step G	47.3109	3784.87	8200.56	98406.67
		Step H	48.4794	3878.35	8403.10	100837.15
		Step I	49.6767	3974.14	8610.63	103327.54
		Step J	50.9034	4072.27	8823.26	105879.07
		Step K	52.1606	4172.85	9041.17	108494.05
		Step L	53.4487	4275.90	9264.44	111173.30
		Step M	54.7687	4381.50	9493.24	113918.90



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1027B	Construction Inspection Superintendent-B	Step A	43.7313	3498.50	7580.09	90961.10
		Step B	44.8108	3584.86	7767.21	93206.46
		Step C	45.9175	3673.40	7959.03	95508.40
		Step D	47.0515	3764.12	8155.59	97867.12
		Step E	48.2135	3857.08	8357.01	100284.08
		Step F	49.4041	3952.33	8563.38	102760.53
		Step G	50.6242	4049.94	8774.86	105298.34
		Step H	51.8744	4149.95	8991.56	107898.75
		Step I	53.1555	4252.44	9213.62	110563.44
		Step J	54.4682	4357.46	9441.15	113293.86
		Step K	55.8134	4465.07	9674.32	116091.87
		Step L	57.1918	4575.34	9913.25	118958.94
		Step M	58.6042	4688.34	10158.06	121896.74



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1370B	Controller-B	Step A	54.8583	4388.66	9508.77	114105.26
		Step B	56.2131	4497.05	9743.60	116923.25
		Step C	57.6013	4608.10	9984.23	119810.70
		Step D	59.0238	4721.90	10230.79	122769.50
		Step E	60.4815	4838.52	10483.46	125801.52
		Step F	61.9751	4958.01	10742.35	128908.21
		Step G	63.5056	5080.45	11007.64	132091.65
		Step H	65.0740	5205.92	11279.49	135353.92
		Step I	66.6811	5334.49	11558.06	138696.69
		Step J	68.3278	5466.22	11843.49	142121.82
		Step K	70.0153	5601.22	12135.99	145631.82
		Step L	71.7443	5739.54	12435.68	149228.14
		Step M	73.5162	5881.30	12742.81	152913.70



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1025B	Custodian Supervisor-B	Step A	22.1664	1773.31	3842.18	46106.11
		Step B	22.7138	1817.10	3937.06	47244.70
		Step C	23.2747	1861.98	4034.28	48411.38
		Step D	23.8495	1907.96	4133.91	49606.96
		Step E	24.4385	1955.08	4236.01	50832.08
		Step F	25.0420	2003.36	4340.61	52087.36
		Step G	25.6605	2052.84	4447.82	53373.84
		Step H	26.2942	2103.54	4557.66	54691.94
		Step I	26.9435	2155.48	4670.21	56042.48
		Step J	27.6089	2208.71	4785.54	57426.51
		Step K	28.2908	2263.26	4903.74	58844.86
		Step L	28.9894	2319.15	5024.83	60297.95
		Step M	29.7054	2376.43	5148.94	61787.23



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9561B	Data Management System Administrator-B	Step A	45.2100	3616.80	7836.40	94036.80
		Step B	46.3261	3706.09	8029.86	96358.29
		Step C	47.4701	3797.61	8228.15	98737.81
		Step D	48.6424	3891.39	8431.35	101176.19
		Step E	49.8437	3987.50	8639.57	103674.90
		Step F	51.0746	4085.97	8852.93	106235.17
		Step G	52.3360	4186.88	9071.57	108858.88
		Step H	53.6285	4290.28	9295.61	111547.28
		Step I	54.9529	4396.23	9525.17	114302.03
		Step J	56.3101	4504.81	9760.42	117125.01
		Step K	57.7006	4616.05	10001.44	120017.25
		Step L	59.1257	4730.06	10248.45	122981.46
		Step M	60.5858	4846.86	10501.54	126018.46



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1645B	Department Public Information Officer-B	Step A	41.6838	3334.70	7225.19	86702.30
		Step B	42.7132	3417.06	7403.62	88843.46
		Step C	43.7681	3501.45	7586.47	91037.65
		Step D	44.8490	3587.92	7773.83	93285.92
		Step E	45.9566	3676.53	7965.81	95589.73
		Step F	47.0915	3767.32	8162.53	97950.32
		Step G	48.2545	3860.36	8364.11	100369.36
		Step H	49.4462	3955.70	8570.67	102848.10
		Step I	50.6673	4053.38	8782.33	105387.98
		Step J	51.9186	4153.49	8999.22	107990.69
		Step K	53.2008	4256.06	9221.47	110657.66
		Step L	54.5146	4361.17	9449.20	113390.37
		Step M	55.8609	4468.87	9682.56	116190.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1655B	Deputy City Attorney I-B	Step A	59.8281	4786.25	10370.20	124442.45
		Step B	61.3055	4904.44	10626.29	127515.44
		Step C	62.8196	5025.57	10888.73	130664.77
		Step D	64.3710	5149.68	11157.64	133891.68
		Step E	65.9606	5276.85	11433.17	137198.05
		Step F	67.5896	5407.17	11715.53	140586.37
		Step G	69.2588	5540.70	12004.86	144058.30
		Step H	70.9693	5677.54	12301.35	147616.14
		Step I	72.7219	5817.75	12605.13	151261.55
		Step J	74.5178	5961.42	12916.42	154997.02
		Step K	76.3582	6108.66	13235.42	158825.06
		Step L	78.2439	6259.51	13562.28	162747.31
		Step M	80.1762	6414.10	13897.21	166766.50



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1658B	Deputy City Attorney II-B	Step A	65.8109	5264.87	11407.22	136886.67
		Step B	67.4362	5394.90	11688.94	140267.30
		Step C	69.1015	5528.12	11977.59	143731.12
		Step D	70.8081	5664.65	12273.40	147280.85
		Step E	72.5568	5804.54	12576.51	150918.14
		Step F	74.3486	5947.89	12887.09	154645.09
		Step G	76.1848	6094.78	13205.37	158464.38
		Step H	78.0661	6245.29	13531.46	162377.49
		Step I	79.9941	6399.53	13865.64	166387.73
		Step J	81.9697	6557.58	14208.08	170496.98
		Step K	83.9940	6719.52	14558.96	174707.52
		Step L	86.0683	6885.46	14918.51	179022.06
		Step M	88.1938	7055.50	15286.93	183443.10



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1659B	Deputy City Manager-B	Step A	68.2212	5457.70	11825.01	141900.10
		Step B	69.9060	5592.48	12117.04	145404.48
		Step C	71.6324	5730.59	12416.28	148995.39
		Step D	73.4014	5872.11	12722.91	152674.91
		Step E	75.2141	6017.13	13037.11	156445.33
		Step F	77.0716	6165.73	13359.08	160308.93
		Step G	78.9749	6317.99	13688.98	164267.79
		Step H	80.9253	6474.02	14027.05	168324.62
		Step I	82.9238	6633.90	14373.46	172481.50
		Step J	84.9717	6797.74	14728.43	176741.14
		Step K	87.0702	6965.62	15092.17	181106.02
		Step L	89.2205	7137.64	15464.89	185578.64
		Step M	91.4239	7313.91	15846.81	190161.71



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
1674B	Development Analyst I-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	34.6046	2768.37	5998.13	71977.57
Step B	35.4588	2836.70	6146.19	73754.30
Step C	36.3345	2906.76	6297.98	75575.76
Step D	37.2318	2978.54	6453.51	77442.14
Step E	38.1513	3052.10	6612.89	79354.70
Step F	39.0935	3127.48	6776.21	81314.48
Step G	40.0590	3204.72	6943.56	83322.72
Step H	41.0482	3283.86	7115.02	85380.26
Step I	42.0620	3364.96	7290.75	87488.96
Step J	43.1007	3448.06	7470.79	89649.46
Step K	44.1651	3533.21	7655.28	91863.41
Step L	45.2559	3620.47	7844.36	94132.27
Step M	46.3735	3709.88	8038.07	96456.88



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1675B	Development Analyst II-B	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.0048	3120.38	6760.83	81129.98
		Step C	39.9679	3197.43	6927.77	83133.23
		Step D	40.9550	3276.40	7098.87	85186.40
		Step E	41.9664	3357.31	7274.18	87290.11
		Step F	43.0029	3440.23	7453.84	89446.03
		Step G	44.0649	3525.19	7637.92	91654.99
		Step H	45.1531	3612.25	7826.54	93918.45
		Step I	46.2682	3701.46	8019.82	96237.86
		Step J	47.4109	3792.87	8217.89	98614.67
		Step K	48.5816	3886.53	8420.81	101049.73
		Step L	49.7815	3982.52	8628.79	103545.52
		Step M	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1280B	Development Services Administrator-B	Step A	41.9600	3356.80	7273.07	87276.80
		Step B	42.9958	3439.66	7452.61	89431.26
		Step C	44.0576	3524.61	7636.65	91639.81
		Step D	45.1458	3611.66	7825.27	93903.26
		Step E	46.2606	3700.85	8018.50	96222.05
		Step F	47.4030	3792.24	8216.52	98598.24
		Step G	48.5738	3885.90	8419.46	101033.50
		Step H	49.7733	3981.86	8627.37	103528.46
		Step I	51.0024	4080.19	8840.42	106084.99
		Step J	52.2621	4180.97	9058.76	108705.17
		Step K	53.5527	4284.22	9282.47	111389.62
		Step L	54.8752	4390.02	9511.70	114140.42
		Step M	56.2304	4498.43	9746.60	116959.23



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1676B	Development Services Director-B	Step A	75.4120	6032.96	13071.41	156856.96
		Step B	77.2743	6181.94	13394.21	160730.54
		Step C	79.1826	6334.61	13724.98	164699.81
		Step D	81.1382	6491.06	14063.95	168767.46
		Step E	83.1419	6651.35	14411.26	172935.15
		Step F	85.1952	6815.62	14767.17	177206.02
		Step G	87.2992	6983.94	15131.86	181582.34
		Step H	89.4552	7156.42	15505.57	186066.82
		Step I	91.6644	7333.15	15888.50	190661.95
		Step J	93.9281	7514.25	16280.87	195370.45
		Step K	96.2477	7699.82	16682.93	200195.22
		Step L	98.6246	7889.97	17094.93	205139.17
		Step M	101.0603	8084.82	17517.12	210205.42



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1695B	Development Services Manager-B	Step A	49.9305	3994.44	8654.62	103855.44
		Step B	51.1636	4093.09	8868.36	106420.29
		Step C	52.4271	4194.17	9087.36	109048.37
		Step D	53.7218	4297.74	9311.78	111741.34
		Step E	55.0485	4403.88	9541.74	114500.88
		Step F	56.4080	4512.64	9777.39	117328.64
		Step G	57.8011	4624.09	10018.86	120226.29
		Step H	59.2286	4738.29	10266.29	123195.49
		Step I	60.6913	4855.30	10519.83	126237.90
		Step J	62.1901	4975.21	10779.62	129355.41
		Step K	63.7260	5098.08	11045.84	132550.08
		Step L	65.2997	5223.98	11318.61	135823.38
		Step M	66.9124	5352.99	11598.15	139177.79



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2415B	EMS Quality Assurance Coordinator-B	Step A	47.0174	3761.39	8149.68	97796.19
		Step B	48.1780	3854.24	8350.85	100210.24
		Step C	49.3678	3949.42	8557.09	102685.02
		Step D	50.5872	4046.98	8768.45	105221.38
		Step E	51.8365	4146.92	8984.99	107819.92
		Step F	53.1166	4249.33	9206.88	110482.53
		Step G	54.4283	4354.26	9434.24	113210.86
		Step H	55.7724	4461.79	9667.22	116006.59
		Step I	57.1498	4571.98	9905.97	118871.58
		Step J	58.5612	4684.90	10150.61	121807.30
		Step K	60.0074	4800.59	10401.28	124815.39
		Step L	61.4893	4919.14	10658.15	127897.74
		Step M	63.0079	5040.63	10921.37	131056.43



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6520B	ERP Manager-B	Step A	50.7919	4063.35	8803.93	105647.15
		Step B	52.0463	4163.70	9021.36	108256.30
		Step C	53.3316	4266.53	9244.14	110929.73
		Step D	54.6487	4371.90	9472.44	113669.30
		Step E	55.9983	4479.86	9706.37	116476.46
		Step F	57.3812	4590.50	9946.07	119352.90
		Step G	58.7983	4703.86	10191.71	122300.46
		Step H	60.2504	4820.03	10443.40	125320.83
		Step I	61.7383	4939.06	10701.31	128415.66
		Step J	63.2630	5061.04	10965.59	131587.04
		Step K	64.8253	5186.02	11236.39	134836.62
		Step L	66.4263	5314.10	11513.89	138166.70
		Step M	68.0668	5445.34	11798.25	141578.94



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1710B	Economic Development Director-B	Step A	67.2729	5381.83	11660.64	139927.63
		Step B	68.9338	5514.70	11948.53	143382.30
		Step C	70.6362	5650.90	12243.61	146923.30
		Step D	72.3806	5790.45	12545.97	150551.65
		Step E	74.1681	5933.45	12855.80	154269.65
		Step F	75.9998	6079.98	13173.30	158079.58
		Step G	77.8767	6230.14	13498.63	161983.54
		Step H	79.7999	6383.99	13831.98	165983.79
		Step I	81.7707	6541.66	14173.59	170083.06
		Step J	83.7900	6703.20	14523.60	174283.20
		Step K	85.8594	6868.75	14882.30	178587.55
		Step L	87.9797	7038.38	15249.81	182997.78
		Step M	90.1524	7212.19	15626.42	187516.99



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1001B	Economic Development Project Manager-B	Step A	46.4724	3717.79	8055.22	96662.59
		Step B	47.6201	3809.61	8254.15	99049.81
		Step C	48.7961	3903.69	8457.99	101495.89
		Step D	50.0012	4000.10	8666.87	104002.50
		Step E	51.2360	4098.88	8880.91	106570.88
		Step F	52.5013	4200.10	9100.23	109202.70
		Step G	53.7979	4303.83	9324.97	111899.63
		Step H	55.1265	4410.12	9555.26	114663.12
		Step I	56.4879	4519.03	9791.24	117494.83
		Step J	57.8829	4630.63	10033.04	120396.43
		Step K	59.3123	4744.98	10280.80	123369.58
		Step L	60.7772	4862.18	10534.71	126416.58
		Step M	62.2781	4982.25	10794.87	129538.45



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1310B	Electric Business Analyst I-B	Step A	45.0863	3606.90	7814.96	93779.50
		Step B	46.1997	3695.98	8007.95	96095.38
		Step C	47.3406	3787.25	8205.70	98468.45
		Step D	48.5097	3880.78	8408.35	100900.18
		Step E	49.7077	3976.62	8616.00	103392.02
		Step F	50.9353	4074.82	8828.79	105945.42
		Step G	52.1932	4175.46	9046.82	108561.86
		Step H	53.4822	4278.58	9270.25	111242.98
		Step I	54.8030	4384.24	9499.19	113990.24
		Step J	56.1564	4492.51	9733.78	116805.31
		Step K	57.5433	4603.46	9974.17	119690.06
		Step L	58.9644	4717.15	10220.50	122645.95
		Step M	60.4205	4833.64	10472.89	125674.64



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1312B	Electric Business Analyst II-B	Step A	49.5995	3967.96	8597.25	103166.96
		Step B	50.8244	4065.95	8809.56	105714.75
		Step C	52.0795	4166.36	9027.11	108325.36
		Step D	53.3656	4269.25	9250.04	111000.45
		Step E	54.6836	4374.69	9478.49	113741.89
		Step F	56.0340	4482.72	9712.56	116550.72
		Step G	57.4179	4593.43	9952.44	119429.23
		Step H	58.8359	4706.87	10198.22	122378.67
		Step I	60.2889	4823.11	10450.08	125400.91
		Step J	61.7778	4942.22	10708.15	128497.82
		Step K	63.3034	5064.27	10972.59	131671.07
		Step L	64.8668	5189.34	11243.58	134922.94
		Step M	66.4687	5317.50	11521.24	138254.90



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2335B	Electric Compliance Analyst-B	Step A	49.5165	3961.32	8582.86	102994.32
		Step B	50.7393	4059.14	8794.81	105537.74
		Step C	51.9924	4159.39	9012.02	108144.19
		Step D	53.2764	4262.11	9234.58	110814.91
		Step E	54.5921	4367.37	9462.63	113551.57
		Step F	55.9404	4475.23	9696.34	116356.03
		Step G	57.3218	4585.74	9935.78	119229.34
		Step H	58.7374	4698.99	10181.15	122173.79
		Step I	60.1880	4815.04	10432.59	125191.04
		Step J	61.6744	4933.95	10690.23	128282.75
		Step K	63.1975	5055.80	10954.23	131450.80
		Step L	64.7583	5180.66	11224.77	134697.26
		Step M	66.3575	5308.60	11501.97	138023.60



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6285B	Electric Customer Programs Supervisor-B	Step A	61.0898	4887.18	10588.90	127066.78
		Step B	62.5984	5007.87	10850.39	130204.67
		Step C	64.1443	5131.54	11118.35	133420.14
		Step D	65.7284	5258.27	11392.92	136715.07
		Step E	67.3517	5388.14	11674.29	140091.54
		Step F	69.0150	5521.20	11962.60	143551.20
		Step G	70.7194	5657.55	12258.03	147096.35
		Step H	72.4658	5797.26	12560.74	150728.86
		Step I	74.2555	5940.44	12870.95	154451.44
		Step J	76.0894	6087.15	13188.83	158265.95
		Step K	77.9684	6237.47	13514.52	162174.27
		Step L	79.8940	6391.52	13848.29	166179.52
		Step M	81.8670	6549.36	14190.28	170283.36



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2284B	Electric Engineering Technician Supervisor-B	Step A	52.9918	4239.34	9185.25	110222.94
		Step B	54.3005	4344.04	9412.09	112945.04
		Step C	55.6415	4451.32	9644.53	115734.32
		Step D	57.0155	4561.24	9882.69	118592.24
		Step E	58.4236	4673.89	10126.76	121521.09
		Step F	59.8665	4789.32	10376.86	124522.32
		Step G	61.3450	4907.60	10633.13	127597.60
		Step H	62.8599	5028.79	10895.72	130748.59
		Step I	64.4123	5152.98	11164.80	133977.58
		Step J	66.0031	5280.25	11440.54	137286.45
		Step K	67.6330	5410.64	11723.05	140676.64
		Step L	69.3033	5544.26	12012.57	144150.86
		Step M	71.0149	5681.19	12309.25	147710.99



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2338B	Electric Operations Manager-B	Step A	74.8525	5988.20	12974.43	155693.20
		Step B	76.7010	6136.08	13294.84	159538.08
		Step C	78.5952	6287.62	13623.17	163478.02
		Step D	80.5362	6442.90	13959.61	167515.30
		Step E	82.5252	6602.02	14304.37	171652.42
		Step F	84.5632	6765.06	14657.62	175891.46
		Step G	86.6516	6932.13	15019.61	180235.33
		Step H	88.7915	7103.32	15390.53	184686.32
		Step I	90.9842	7278.74	15770.59	189247.14
		Step J	93.2312	7458.50	16160.07	193920.90
		Step K	95.5337	7642.70	16559.17	198710.10
		Step L	97.8930	7831.44	16968.12	203617.44
		Step M	100.3105	8024.84	17387.15	208645.84



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2339B	Electric Operations Supervisor-B	Step A	66.6859	5334.87	11558.89	138706.67
		Step B	68.3327	5466.62	11844.33	142132.02
		Step C	70.0203	5601.62	12136.85	145642.22
		Step D	71.7495	5739.96	12436.58	149238.96
		Step E	73.5214	5881.71	12743.71	152924.51
		Step F	75.3371	6026.97	13058.43	156701.17
		Step G	77.1976	6175.81	13380.92	160571.01
		Step H	79.1042	6328.34	13711.39	164536.74
		Step I	81.0577	6484.62	14050.00	168600.02
		Step J	83.0595	6644.76	14396.98	172763.76
		Step K	85.1108	6808.86	14752.54	177030.46
		Step L	87.2126	6977.01	15116.85	181402.21
		Step M	89.3664	7149.31	15490.18	185882.11



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2314B	Electric Resources Analyst I-B	Step A	51.3629	4109.03	8902.90	106834.83
		Step B	52.6313	4210.50	9122.76	109473.10
		Step C	53.9311	4314.49	9348.06	112176.69
		Step D	55.2629	4421.03	9578.90	114946.83
		Step E	56.6277	4530.22	9815.47	117785.62
		Step F	58.0262	4642.10	10057.87	120694.50
		Step G	59.4592	4756.74	10306.26	123675.14
		Step H	60.9276	4874.21	10560.78	126729.41
		Step I	62.4323	4994.58	10821.60	129859.18
		Step J	63.9741	5117.93	11088.84	133066.13
		Step K	65.5540	5244.32	11362.69	136352.32
		Step L	67.1730	5373.84	11643.32	139719.84
		Step M	68.8319	5506.55	11930.86	143170.35



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2316B	Electric Resources Analyst II-B	Step A	56.4991	4519.93	9793.18	117518.13
		Step B	57.8944	4631.55	10035.03	120420.35
		Step C	59.3242	4745.94	10282.86	123394.34
		Step D	60.7893	4863.14	10536.81	126441.74
		Step E	62.2905	4983.24	10797.02	129564.24
		Step F	63.8288	5106.30	11063.66	132763.90
		Step G	65.4052	5232.42	11336.90	136042.82
		Step H	67.0204	5361.63	11616.87	139402.43
		Step I	68.6755	5494.04	11903.75	142845.04
		Step J	70.3716	5629.73	12197.74	146372.93
		Step K	72.1095	5768.76	12498.98	149987.76
		Step L	73.8903	5911.22	12807.65	153691.82
		Step M	75.7151	6057.21	13123.95	157487.41



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2216B	Electric Risk and Compliance Supervisor-B	Step A	62.1710	4973.68	10776.31	129315.68
		Step B	63.7064	5096.51	11042.44	132509.31
		Step C	65.2797	5222.38	11315.15	135781.78
		Step D	66.8918	5351.34	11594.58	139134.94
		Step E	68.5438	5483.50	11880.93	142571.10
		Step F	70.2365	5618.92	12174.33	146091.92
		Step G	71.9711	5757.69	12474.99	149699.89
		Step H	73.7485	5899.88	12783.07	153396.88
		Step I	75.5698	6045.58	13098.77	157185.18
		Step J	77.4361	6194.89	13422.26	161067.09
		Step K	79.3484	6347.87	13753.72	165044.67
		Step L	81.3081	6504.65	14093.40	169120.85
		Step M	83.3160	6665.28	14441.44	173297.28



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2352B	Electric Safety Coordinator-B	Step A	38.0651	3045.21	6597.95	79175.41
		Step B	39.0048	3120.38	6760.83	81129.98
		Step C	39.9679	3197.43	6927.77	83133.23
		Step D	40.9550	3276.40	7098.87	85186.40
		Step E	41.9664	3357.31	7274.18	87290.11
		Step F	43.0029	3440.23	7453.84	89446.03
		Step G	44.0649	3525.19	7637.92	91654.99
		Step H	45.1531	3612.25	7826.54	93918.45
		Step I	46.2682	3701.46	8019.82	96237.86
		Step J	47.4109	3792.87	8217.89	98614.67
		Step K	48.5816	3886.53	8420.81	101049.73
		Step L	49.7815	3982.52	8628.79	103545.52
		Step M	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2319B	Electric Substation Supervisor-B	Step A	66.6859	5334.87	11558.89	138706.67
		Step B	68.3327	5466.62	11844.33	142132.02
		Step C	70.0203	5601.62	12136.85	145642.22
		Step D	71.7495	5739.96	12436.58	149238.96
		Step E	73.5214	5881.71	12743.71	152924.51
		Step F	75.3371	6026.97	13058.43	156701.17
		Step G	77.1976	6175.81	13380.92	160571.01
		Step H	79.1042	6328.34	13711.39	164536.74
		Step I	81.0577	6484.62	14050.00	168600.02
		Step J	83.0595	6644.76	14396.98	172763.76
		Step K	85.1108	6808.86	14752.54	177030.46
		Step L	87.2126	6977.01	15116.85	181402.21
		Step M	89.3664	7149.31	15490.18	185882.11



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9560B	Electric Technology Systems Administrator-B	Step A	62.7447	5019.58	10875.75	130508.98
		Step B	64.2935	5143.48	11144.21	133730.48
		Step C	65.8813	5270.50	11419.43	137033.10
		Step D	67.5083	5400.66	11701.44	140417.26
		Step E	69.1755	5534.04	11990.42	143885.04
		Step F	70.8839	5670.71	12286.54	147438.51
		Step G	72.6344	5810.75	12589.96	151079.55
		Step H	74.4281	5954.25	12900.87	154810.45
		Step I	76.2663	6101.30	13219.49	158633.90
		Step J	78.1497	6251.98	13545.95	162551.38
		Step K	80.0797	6406.38	13880.48	166565.78
		Step L	82.0574	6564.59	14223.28	170679.39
		Step M	84.0838	6726.70	14574.53	174894.30



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2320B	Electric Utility Director-B	Step A	107.5005	8600.04	18633.42	223601.04
		Step B	110.1554	8812.43	19093.60	229123.23
		Step C	112.8757	9030.06	19565.12	234781.46
		Step D	115.6633	9253.06	20048.31	240579.66
		Step E	118.5198	9481.58	20543.43	246521.18
		Step F	121.4467	9715.74	21050.76	252609.14
		Step G	124.4460	9955.68	21570.64	258847.68
		Step H	127.5192	10201.54	22103.33	265239.94
		Step I	130.6685	10453.48	22649.21	271790.48
		Step J	133.8955	10711.64	23208.55	278502.64
		Step K	137.2022	10976.18	23781.71	285380.58
		Step L	140.5905	11247.24	24369.02	292428.24
		Step M	144.0625	11525.00	24970.83	299650.00



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2215B	Electric Utility Financial Administrator-B	Step A	61.1071	4888.57	10591.90	127102.77
		Step B	62.6162	5009.30	10853.47	130241.70
		Step C	64.1626	5133.01	11121.52	133458.21
		Step D	65.7471	5259.77	11396.16	136753.97
		Step E	67.3709	5389.67	11677.62	140131.47
		Step F	69.0347	5522.78	11966.01	143592.18
		Step G	70.7395	5659.16	12261.51	147138.16
		Step H	72.4865	5798.92	12564.33	150771.92
		Step I	74.2767	5942.14	12874.63	154495.54
		Step J	76.1110	6088.88	13192.57	158310.88
		Step K	77.9906	6239.25	13518.37	162220.45
		Step L	79.9167	6393.34	13852.23	166226.74
		Step M	81.8903	6551.22	14194.32	170331.82



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2378B	Electronic Maintenance Coordinator-B	Step A	36.7224	2937.79	6365.22	76382.59
		Step B	37.6294	3010.35	6522.43	78269.15
		Step C	38.5586	3084.69	6683.49	80201.89
		Step D	39.5108	3160.86	6848.54	82182.46
		Step E	40.4866	3238.93	7017.68	84212.13
		Step F	41.4864	3318.91	7190.98	86291.71
		Step G	42.5110	3400.88	7368.57	88422.88
		Step H	43.5609	3484.87	7550.56	90606.67
		Step I	44.6367	3570.94	7737.03	92844.34
		Step J	45.7390	3659.12	7928.09	95137.12
		Step K	46.8685	3749.48	8123.87	97486.48
		Step L	48.0260	3842.08	8324.51	99894.08
		Step M	49.2121	3936.97	8530.10	102361.17



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2500B	Energy Services Account Representative I-B	Step A	43.9034	3512.27	7609.92	91319.07
		Step B	44.9876	3599.01	7797.85	93574.21
		Step C	46.0986	3687.89	7990.42	95885.09
		Step D	47.2371	3778.97	8187.76	98253.17
		Step E	48.4036	3872.29	8389.96	100679.49
		Step F	49.5990	3967.92	8597.16	103165.92
		Step G	50.8239	4065.91	8809.48	105713.71
		Step H	52.0790	4166.32	9027.03	108324.32
		Step I	53.3652	4269.22	9249.97	110999.62
		Step J	54.6831	4374.65	9478.40	113740.85
		Step K	56.0336	4482.69	9712.49	116549.89
		Step L	57.4174	4593.39	9952.35	119428.19
		Step M	58.8353	4706.82	10198.12	122377.42



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2501B	Energy Services Account Representative II-B	Step A	48.2938	3863.50	8370.93	100451.10
		Step B	49.4865	3958.92	8577.66	102931.92
		Step C	50.7086	4056.69	8789.49	105473.89
		Step D	51.9609	4156.87	9006.56	108078.67
		Step E	53.2441	4259.53	9228.98	110747.73
		Step F	54.5590	4364.72	9456.89	113482.72
		Step G	55.9064	4472.51	9690.44	116285.31
		Step H	57.2871	4582.97	9929.76	119157.17
		Step I	58.7019	4696.15	10175.00	122099.95
		Step J	60.1515	4812.12	10426.26	125115.12
		Step K	61.6371	4930.97	10683.76	128205.17
		Step L	63.1593	5052.74	10947.61	131371.34
		Step M	64.7190	5177.52	11217.96	134615.52



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
1277B	Engineering Manager-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	58.7839	4702.71	10189.21	122270.51
Step B	60.2347	4818.78	10440.68	125288.18
Step C	61.7223	4937.78	10698.53	128382.38
Step D	63.2466	5059.73	10962.74	131552.93
Step E	64.8085	5184.68	11233.47	134801.68
Step F	66.4091	5312.73	11510.91	138130.93
Step G	68.0491	5443.93	11795.18	141542.13
Step H	69.7296	5578.37	12086.46	145037.57
Step I	71.4517	5716.14	12384.96	148619.54
Step J	73.2164	5857.31	12690.84	152290.11
Step K	75.0244	6001.95	13004.23	156050.75
Step L	76.8772	6150.18	13325.38	159904.58
Step M	78.7758	6302.06	13654.47	163853.66



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2540B	Environmental Coordinator-B	Step A	43.7750	3502.00	7587.67	91052.00
		Step B	44.8557	3588.46	7774.99	93299.86
		Step C	45.9634	3677.07	7966.99	95603.87
		Step D	47.0986	3767.89	8163.76	97965.09
		Step E	48.2618	3860.94	8365.38	100384.54
		Step F	49.4536	3956.29	8571.96	102863.49
		Step G	50.6748	4053.98	8783.63	105403.58
		Step H	51.9263	4154.10	9000.56	108006.70
		Step I	53.2088	4256.70	9222.86	110674.30
		Step J	54.5227	4361.82	9450.60	113407.22
		Step K	55.8692	4469.54	9683.99	116207.94
		Step L	57.2490	4579.92	9923.16	119077.92
		Step M	58.6628	4693.02	10168.22	122018.62



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2548B	Environmental Utilities Business Administrator-B	Step A	44.6497	3571.98	7739.28	92871.38
		Step B	45.7518	3660.14	7930.31	95163.74
		Step C	46.8818	3750.54	8126.18	97514.14
		Step D	48.0396	3843.17	8326.86	99922.37
		Step E	49.2260	3938.08	8532.51	102390.08
		Step F	50.4417	4035.34	8743.23	104918.74
		Step G	51.6873	4134.98	8959.13	107509.58
		Step H	52.9638	4237.10	9180.39	110164.70
		Step I	54.2718	4341.74	9407.11	112885.34
		Step J	55.6122	4448.98	9639.45	115673.38
		Step K	56.9856	4558.85	9877.50	118530.05
		Step L	58.3928	4671.42	10121.42	121457.02
		Step M	59.8349	4786.79	10371.38	124456.59



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1684B	Environmental Utilities Director-B	Step A	83.0899	6647.19	14402.25	172826.99
		Step B	85.1419	6811.35	14757.93	177095.15
		Step C	87.2446	6979.57	15122.40	181468.77
		Step D	89.3992	7151.94	15495.86	185950.34
		Step E	91.6070	7328.56	15878.55	190542.56
		Step F	93.8694	7509.55	16270.70	195248.35
		Step G	96.1875	7695.00	16672.50	200070.00
		Step H	98.5630	7885.04	17084.25	205011.04
		Step I	100.9971	8079.77	17506.16	210073.97
		Step J	103.4913	8279.30	17938.49	215261.90
		Step K	106.0471	8483.77	18381.50	220577.97
		Step L	108.6661	8693.29	18835.46	226025.49
		Step M	111.3497	8907.98	19300.61	231607.38



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1024B	Environmental Utilities Maintenance Superintendent-B	Step A	51.3496	4107.97	8900.60	106807.17
		Step B	52.6177	4209.42	9120.40	109444.82
		Step C	53.9171	4313.37	9345.63	112147.57
		Step D	55.2487	4419.90	9576.44	114917.30
		Step E	56.6131	4529.05	9812.94	117755.25
		Step F	58.0112	4640.90	10055.27	120663.30
		Step G	59.4439	4755.51	10303.61	123643.31
		Step H	60.9119	4872.95	10558.06	126696.75
		Step I	62.4162	4993.30	10818.81	129825.70
		Step J	63.9576	5116.61	11085.98	133031.81
		Step K	65.5371	5242.97	11359.76	136317.17
		Step L	67.1556	5372.45	11640.30	139683.65
		Step M	68.8141	5505.13	11927.78	143133.33



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2546B	Environmental Utilities Rate Analyst I-B	Step A	35.8245	2865.96	6209.58	74514.96
		Step B	36.7087	2936.70	6362.84	76354.10
		Step C	37.6153	3009.22	6519.99	78239.82
		Step D	38.5443	3083.54	6681.01	80172.14
		Step E	39.4962	3159.70	6846.01	82152.10
		Step F	40.4715	3237.72	7015.06	84180.72
		Step G	41.4710	3317.68	7188.31	86259.68
		Step H	42.4952	3399.62	7365.83	88390.02
		Step I	43.5447	3483.58	7547.75	90572.98
		Step J	44.6200	3569.60	7734.13	92809.60
		Step K	45.7220	3657.76	7925.15	95101.76
		Step L	46.8511	3748.09	8120.86	97450.29
		Step M	48.0082	3840.66	8321.42	99857.06



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2547B	Environmental Utilities Rate Analyst II-B	Step A	38.8258	3106.06	6729.81	80757.66
		Step B	39.7842	3182.74	6895.93	82751.14
		Step C	40.7668	3261.34	7066.25	84794.94
		Step D	41.7735	3341.88	7240.74	86888.88
		Step E	42.8053	3424.42	7419.59	89035.02
		Step F	43.8623	3508.98	7602.80	91233.58
		Step G	44.9455	3595.64	7790.55	93486.64
		Step H	46.0555	3684.44	7982.95	95795.44
		Step I	47.1929	3775.43	8180.10	98161.23
		Step J	48.3584	3868.67	8382.12	100585.47
		Step K	49.5527	3964.22	8589.13	103069.62
		Step L	50.7764	4062.11	8801.24	105614.91
		Step M	52.0304	4162.43	9018.60	108223.23



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2541B	Environmental Utility Compliance Administrator-B	Step A	43.7730	3501.84	7587.32	91047.84
		Step B	44.8533	3588.26	7774.57	93294.86
		Step C	45.9610	3676.88	7966.57	95598.88
		Step D	47.0961	3767.69	8163.32	97959.89
		Step E	48.2592	3860.74	8364.93	100379.14
		Step F	49.4510	3956.08	8571.51	102858.08
		Step G	50.6722	4053.78	8783.18	105398.18
		Step H	51.9236	4153.89	9000.09	108001.09
		Step I	53.2060	4256.48	9222.37	110668.48
		Step J	54.5200	4361.60	9450.13	113401.60
		Step K	55.8663	4469.30	9683.49	116201.90
		Step L	57.2460	4579.68	9922.64	119071.68
		Step M	58.6597	4692.78	10167.68	122012.18



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2565B	Equipment Maintenance Supervisor-B	Step A	34.4640	2757.12	5973.76	71685.12
		Step B	35.3151	2825.21	6121.28	73455.41
		Step C	36.1872	2894.98	6272.45	75269.38
		Step D	37.0809	2966.47	6427.36	77128.27
		Step E	37.9967	3039.74	6586.09	79033.14
		Step F	38.9351	3114.81	6748.75	80985.01
		Step G	39.8966	3191.73	6915.41	82984.93
		Step H	40.8818	3270.54	7086.18	85034.14
		Step I	41.8915	3351.32	7261.19	87134.32
		Step J	42.9260	3434.08	7440.51	89286.08
		Step K	43.9861	3518.89	7624.26	91491.09
		Step L	45.0724	3605.79	7812.55	93750.59
		Step M	46.1855	3694.84	8005.49	96065.84



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3395B	Facilities Manager-B	Step A	44.9852	3598.82	7797.43	93569.22
		Step B	46.0961	3687.69	7989.99	95879.89
		Step C	47.2346	3778.77	8187.33	98247.97
		Step D	48.4010	3872.08	8389.51	100674.08
		Step E	49.5963	3967.70	8596.69	103160.30
		Step F	50.8212	4065.70	8809.01	105708.10
		Step G	52.0762	4166.10	9026.54	108318.50
		Step H	53.3623	4268.98	9249.47	110993.58
		Step I	54.6802	4374.42	9477.90	113734.82
		Step J	56.0305	4482.44	9711.95	116543.44
		Step K	57.4143	4593.14	9951.81	119421.74
		Step L	58.8322	4706.58	10197.58	122370.98
		Step M	60.2851	4822.81	10449.42	125393.01



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4321B	Facilities Supervisor-B	Step A	32.7688	2621.50	5679.93	68159.10
		Step B	33.5780	2686.24	5820.19	69842.24
		Step C	34.4072	2752.58	5963.91	71566.98
		Step D	35.2570	2820.56	6111.21	73334.56
		Step E	36.1276	2890.21	6262.12	75145.41
		Step F	37.0199	2961.59	6416.78	77001.39
		Step G	37.9342	3034.74	6575.26	78903.14
		Step H	38.8709	3109.67	6737.62	80851.47
		Step I	39.8310	3186.48	6904.04	82848.48
		Step J	40.8145	3265.16	7074.51	84894.16
		Step K	41.8225	3345.80	7249.23	86990.80
		Step L	42.8554	3428.43	7428.27	89139.23
		Step M	43.9137	3513.10	7611.71	91340.50



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
2900B	Finance Manager-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	52.2460	4179.68	9055.97	108671.68
Step B	53.5362	4282.90	9279.61	111355.30
Step C	54.8584	4388.67	9508.79	114105.47
Step D	56.2132	4497.06	9743.62	116923.46
Step E	57.6014	4608.11	9984.24	119810.91
Step F	59.0239	4721.91	10230.81	122769.71
Step G	60.4816	4838.53	10483.48	125801.73
Step H	61.9753	4958.02	10742.39	128908.62
Step I	63.5058	5080.46	11007.67	132092.06
Step J	65.0741	5205.93	11279.51	135354.13
Step K	66.6812	5334.50	11558.07	138696.90
Step L	68.3279	5466.23	11843.50	142122.03
Step M	70.0154	5601.23	12136.00	145632.03



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3310B	Finance Supervisor-B	Step A	38.6792	3094.34	6704.39	80452.74
		Step B	39.6344	3170.75	6869.96	82439.55
		Step C	40.6132	3249.06	7039.62	84475.46
		Step D	41.6162	3329.30	7213.47	86561.70
		Step E	42.6439	3411.51	7391.61	88699.31
		Step F	43.6971	3495.77	7574.16	90889.97
		Step G	44.7762	3582.10	7761.21	93134.50
		Step H	45.8820	3670.56	7952.88	95434.56
		Step I	47.0151	3761.21	8149.28	97791.41
		Step J	48.1762	3854.10	8350.54	100206.50
		Step K	49.3659	3949.27	8556.76	102681.07
		Step L	50.5850	4046.80	8768.07	105216.80
		Step M	51.8343	4146.74	8984.61	107815.34



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0905ZB	Fire Battalion Chief 8Hr-ZB	Step A	52.6723	4213.78	9129.87	109558.38
		Step B	53.9726	4317.81	9355.25	112263.01
		Step C	55.3054	4424.43	9586.27	115035.23
		Step D	56.6714	4533.71	9823.04	117876.51
		Step E	58.0710	4645.68	10065.64	120787.68
		Step F	59.5051	4760.41	10314.22	123770.61
		Step G	60.9744	4877.95	10568.90	126826.75
		Step H	62.4803	4998.42	10829.92	129959.02
		Step I	64.0233	5121.86	11097.37	133168.46
		Step J	65.6045	5248.36	11371.45	136457.36
		Step K	67.2249	5377.99	11652.32	139827.79
		Step L	68.8850	5510.80	11940.07	143280.80
		Step M	70.5861	5646.89	12234.92	146819.09



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0905B	Fire Battalion Chief-B	Step A	37.6231	4213.79	9129.87	109558.47
		Step A	37.6231	4213.79	9129.87	109558.47
		Step B	38.5519	4317.81	9355.26	112263.13
		Step B	38.5519	4317.81	9355.26	112263.13
		Step C	39.5039	4424.44	9586.28	115035.36
		Step C	39.5039	4424.44	9586.28	115035.36
		Step D	40.4796	4533.72	9823.05	117876.60
		Step D	40.4796	4533.72	9823.05	117876.60
		Step E	41.4793	4645.68	10065.64	120787.72
		Step E	41.4793	4645.68	10065.64	120787.72
		Step F	42.5037	4760.41	10314.23	123770.77
		Step F	42.5037	4760.41	10314.23	123770.77
		Step G	43.5532	4877.96	10568.91	126826.92
		Step G	43.5532	4877.96	10568.91	126826.92
		Step H	44.6288	4998.43	10829.92	129959.07
		Step H	44.6288	4998.43	10829.92	129959.07
		Step I	45.7310	5121.87	11097.39	133168.67
		Step I	45.7310	5121.87	11097.39	133168.67
		Step J	46.8604	5248.36	11371.46	136457.48
		Step J	46.8604	5248.36	11371.46	136457.48



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management
Grade Code Grade Name

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step K	48.0178	5377.99	11652.32	139827.83
Step K	48.0178	5377.99	11652.32	139827.83
Step L	49.2036	5510.80	11940.07	143280.88
Step L	49.2036	5510.80	11940.07	143280.88
Step M	50.4187	5646.89	12234.94	146819.25
Step M	50.4187	5646.89	12234.94	146819.25
Step A	75.7064	6056.51	13122.44	157469.31
Step B	77.5751	6206.01	13446.35	161356.21
Step C	79.4909	6359.27	13778.42	165341.07
Step D	81.4540	6516.32	14118.69	169424.32
Step E	83.4656	6677.25	14467.37	173608.45
Step F	85.5268	6842.14	14824.65	177895.74
Step G	87.6391	7011.13	15190.78	182289.33
Step H	89.8034	7184.27	15565.92	186791.07
Step I	92.0212	7361.70	15950.34	191404.10
Step J	94.2936	7543.49	16344.22	196130.69
Step K	96.6224	7729.79	16747.88	200974.59
Step L	99.0086	7920.69	17161.49	205937.89
Step M	101.4537	8116.30	17585.31	211023.70

3330B Fire Chief-B



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3332B	Fire Division Chief-B	Step A	57.9400	4635.20	10042.93	120515.20
		Step B	59.3702	4749.62	10290.83	123490.02
		Step C	60.8364	4866.91	10544.98	126539.71
		Step D	62.3389	4987.11	10805.41	129664.91
		Step E	63.8784	5110.27	11072.26	132867.07
		Step F	65.4559	5236.47	11345.69	136148.27
		Step G	67.0724	5365.79	11625.88	139510.59
		Step H	68.7288	5498.30	11912.99	142955.90
		Step I	70.4262	5634.10	12207.21	146486.50
		Step J	72.1655	5773.24	12508.69	150104.24
		Step K	73.9476	5915.81	12817.58	153811.01
		Step L	75.7738	6061.90	13134.13	157609.50
		Step M	77.6451	6211.61	13458.48	161501.81



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3332ZB	Fire Divison Chief 24Hr-ZB	Step A	41.3857	4635.20	10042.93	120515.16
		Step B	42.4072	4749.61	10290.81	123489.77
		Step C	43.4545	4866.90	10544.96	126539.50
		Step D	44.5277	4987.10	10805.39	129664.66
		Step E	45.6273	5110.26	11072.22	132866.70
		Step F	46.7542	5236.47	11345.69	136148.23
		Step G	47.9088	5365.79	11625.87	139510.43
		Step H	49.0920	5498.30	11912.99	142955.90
		Step I	50.3043	5634.08	12207.18	146486.12
		Step J	51.5467	5773.23	12508.67	150103.99
		Step K	52.8197	5915.81	12817.58	153810.97
		Step L	54.1241	6061.90	13134.11	157609.38
		Step M	55.4607	6211.60	13458.46	161501.56



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
3392B	Fleet Manager-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	44.9852	3598.82	7797.43	93569.22
Step B	46.0961	3687.69	7989.99	95879.89
Step C	47.2346	3778.77	8187.33	98247.97
Step D	48.4010	3872.08	8389.51	100674.08
Step E	49.5963	3967.70	8596.69	103160.30
Step F	50.8212	4065.70	8809.01	105708.10
Step G	52.0762	4166.10	9026.54	108318.50
Step H	53.3623	4268.98	9249.47	110993.58
Step I	54.6802	4374.42	9477.90	113734.82
Step J	56.0305	4482.44	9711.95	116543.44
Step K	57.4143	4593.14	9951.81	119421.74
Step L	58.8322	4706.58	10197.58	122370.98
Step M	60.2851	4822.81	10449.42	125393.01



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3451B	Government Relations Administrator-B	Step A	49.8797	3990.38	8645.81	103749.78
		Step B	51.1114	4088.91	8859.31	106311.71
		Step C	52.3737	4189.90	9078.11	108937.30
		Step D	53.6671	4293.37	9302.30	111627.57
		Step E	54.9925	4399.40	9532.03	114384.40
		Step F	56.3506	4508.05	9767.44	117209.25
		Step G	57.7423	4619.38	10008.67	120103.98
		Step H	59.1682	4733.46	10255.82	123069.86
		Step I	60.6295	4850.36	10509.11	126109.36
		Step J	62.1268	4970.14	10768.65	129223.74
		Step K	63.6611	5092.89	11034.59	132415.09
		Step L	65.2332	5218.66	11307.09	135685.06
		Step M	66.8442	5347.54	11586.33	139035.94



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1647B	Government Relations Representative I-B	Step A	34.6046	2768.37	5998.13	71977.57
		Step B	35.4588	2836.70	6146.19	73754.30
		Step C	36.3345	2906.76	6297.98	75575.76
		Step D	37.2318	2978.54	6453.51	77442.14
		Step E	38.1513	3052.10	6612.89	79354.70
		Step F	39.0935	3127.48	6776.21	81314.48
		Step G	40.0590	3204.72	6943.56	83322.72
		Step H	41.0482	3283.86	7115.02	85380.26
		Step I	42.0620	3364.96	7290.75	87488.96
		Step J	43.1007	3448.06	7470.79	89649.46
		Step K	44.1651	3533.21	7655.28	91863.41
		Step L	45.2559	3620.47	7844.36	94132.27
		Step M	46.3735	3709.88	8038.07	96456.88



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1648B	Government Relations Representative II-B	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.0048	3120.38	6760.83	81129.98
		Step C	39.9679	3197.43	6927.77	83133.23
		Step D	40.9550	3276.40	7098.87	85186.40
		Step E	41.9664	3357.31	7274.18	87290.11
		Step F	43.0029	3440.23	7453.84	89446.03
		Step G	44.0649	3525.19	7637.92	91654.99
		Step H	45.1531	3612.25	7826.54	93918.45
		Step I	46.2682	3701.46	8019.82	96237.86
		Step J	47.4109	3792.87	8217.89	98614.67
		Step K	48.5816	3886.53	8420.81	101049.73
		Step L	49.7815	3982.52	8628.79	103545.52
		Step M	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
3589B	Housing Manager-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	45.1981	3615.85	7834.34	94012.05
Step B	46.3156	3705.25	8028.04	96336.45
Step C	47.4594	3796.75	8226.30	98715.55
Step D	48.6316	3890.53	8429.48	101153.73
Step E	49.8327	3986.62	8637.67	103652.02
Step F	51.0632	4085.06	8850.95	106211.46
Step G	52.3243	4185.94	9069.55	108834.54
Step H	53.6165	4289.32	9293.53	111522.32
Step I	54.9405	4395.24	9523.02	114276.24
Step J	56.2974	4503.79	9758.22	117098.59
Step K	57.6878	4615.02	9999.22	119990.62
Step L	59.1123	4728.98	10246.13	122953.58
Step M	60.5722	4845.78	10499.18	125990.18



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3590B	Housing Supervisor-B	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.0048	3120.38	6760.83	81129.98
		Step C	39.9679	3197.43	6927.77	83133.23
		Step D	40.9550	3276.40	7098.87	85186.40
		Step E	41.9664	3357.31	7274.18	87290.11
		Step F	43.0029	3440.23	7453.84	89446.03
		Step G	44.0649	3525.19	7637.92	91654.99
		Step H	45.1531	3612.25	7826.54	93918.45
		Step I	46.2682	3701.46	8019.82	96237.86
		Step J	47.4109	3792.87	8217.89	98614.67
		Step K	48.5816	3886.53	8420.81	101049.73
		Step L	49.7815	3982.52	8628.79	103545.52
		Step M	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3594B	Human Resources Analyst I-B	Step A	34.1660	2733.28	5922.11	71065.28
		Step B	35.0097	2800.78	6068.35	72820.18
		Step C	35.8744	2869.95	6218.23	74618.75
		Step D	36.7603	2940.82	6371.79	76461.42
		Step E	37.6681	3013.45	6529.14	78349.65
		Step F	38.5984	3087.87	6690.39	80284.67
		Step G	39.5516	3164.13	6855.61	82267.33
		Step H	40.5284	3242.27	7024.92	84299.07
		Step I	41.5293	3322.34	7198.41	86380.94
		Step J	42.5549	3404.39	7376.18	88514.19
		Step K	43.6059	3488.47	7558.36	90700.27
		Step L	44.6827	3574.62	7745.00	92940.02
		Step M	45.7862	3662.90	7936.27	95235.30



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3596B	Human Resources Analyst II-B	Step A	37.5826	3006.61	6514.32	78171.81
		Step B	38.5108	3080.86	6675.21	80102.46
		Step C	39.4618	3156.94	6840.05	82080.54
		Step D	40.4363	3234.90	7008.96	84107.50
		Step E	41.4350	3314.80	7182.07	86184.80
		Step F	42.4583	3396.66	7359.44	88313.26
		Step G	43.5068	3480.54	7541.18	90494.14
		Step H	44.5812	3566.50	7727.41	92728.90
		Step I	45.6822	3654.58	7918.25	95018.98
		Step J	46.8104	3744.83	8113.80	97365.63
		Step K	47.9664	3837.31	8314.18	99770.11
		Step L	49.1510	3932.08	8519.51	102234.08
		Step M	50.3648	4029.18	8729.90	104758.78



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3598B	Human Resources Director-B	Step A	70.0500	5604.00	12142.00	145704.00
		Step B	71.7799	5742.39	12441.85	149302.19
		Step C	73.5526	5884.21	12749.12	152989.41
		Step D	75.3690	6029.52	13063.96	156767.52
		Step E	77.2304	6178.43	13386.60	160639.23
		Step F	79.1376	6331.01	13717.18	164606.21
		Step G	81.0920	6487.36	14055.95	168671.36
		Step H	83.0947	6647.58	14403.08	172836.98
		Step I	85.1468	6811.74	14758.78	177105.34
		Step J	87.2496	6979.97	15123.26	181479.17
		Step K	89.4042	7152.34	15496.73	185960.74
		Step L	91.6122	7328.98	15879.45	190553.38
		Step M	93.8747	7509.98	16271.61	195259.38



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3599B	Human Resources Manager-B	Step A	43.3517	3468.14	7514.29	90171.54
		Step B	44.4220	3553.76	7699.81	92397.76
		Step C	45.5191	3641.53	7889.98	94679.73
		Step D	46.6431	3731.45	8084.80	97017.65
		Step E	47.7951	3823.61	8284.48	99413.81
		Step F	48.9755	3918.04	8489.09	101869.04
		Step G	50.1850	4014.80	8698.73	104384.80
		Step H	51.4243	4113.94	8913.55	106962.54
		Step I	52.6944	4215.55	9133.70	109604.35
		Step J	53.9957	4319.66	9359.25	112311.06
		Step K	55.3291	4426.33	9590.38	115084.53
		Step L	56.6955	4535.64	9827.22	117926.64
		Step M	58.0957	4647.66	10069.92	120839.06



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1002B	Hydrogeologist-B	Step A	52.2508	4180.06	9056.81	108681.66
		Step B	53.5405	4283.24	9280.35	111364.24
		Step C	54.8627	4389.02	9509.53	114114.42
		Step D	56.2177	4497.42	9744.40	116932.82
		Step E	57.6060	4608.48	9985.04	119820.48
		Step F	59.0286	4722.29	10231.62	122779.49
		Step G	60.4865	4838.92	10484.33	125811.92
		Step H	61.9803	4958.42	10743.25	128919.02
		Step I	63.5109	5080.87	11008.56	132102.67
		Step J	65.0792	5206.34	11280.39	135364.74
		Step K	66.6864	5334.91	11558.98	138707.71
		Step L	68.3334	5466.67	11844.46	142133.47
		Step M	70.0209	5601.67	12136.96	145643.47



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3625B	Information Security Administrator-B	Step A	45.0483	3603.86	7808.37	93700.46
		Step B	46.1608	3692.86	8001.21	96014.46
		Step C	47.3007	3784.06	8198.79	98385.46
		Step D	48.4689	3877.51	8401.28	100815.31
		Step E	49.6659	3973.27	8608.76	103305.07
		Step F	50.8924	4071.39	8821.35	105856.19
		Step G	52.1493	4171.94	9039.21	108470.54
		Step H	53.4371	4274.97	9262.43	111149.17
		Step I	54.7568	4380.54	9491.18	113894.14
		Step J	56.1091	4488.73	9725.58	116706.93
		Step K	57.4948	4599.58	9965.77	119589.18
		Step L	58.9146	4713.17	10211.86	122542.37
		Step M	60.3697	4829.58	10464.08	125568.98



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9542B	Information Technology Client Services Supervisor-B	Step A	39.5497	3163.98	6855.28	82263.38
		Step B	40.5260	3242.08	7024.51	84294.08
		Step C	41.5268	3322.14	7197.98	86375.74
		Step D	42.5524	3404.19	7375.75	88508.99
		Step E	43.6033	3488.26	7557.91	90694.86
		Step F	44.6801	3574.41	7744.55	92934.61
		Step G	45.7836	3662.69	7935.82	95229.89
		Step H	46.9142	3753.14	8131.79	97581.54
		Step I	48.0728	3845.82	8332.62	99991.42
		Step J	49.2600	3940.80	8538.40	102460.80
		Step K	50.4765	4038.12	8749.26	104991.12
		Step L	51.7231	4137.85	8965.34	107584.05
		Step M	53.0005	4240.04	9186.75	110241.04



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3602B	Information Technology Program Manager-B	Step A	46.2616	3700.93	8018.68	96224.13
		Step B	47.4042	3792.34	8216.73	98600.74
		Step C	48.5748	3885.98	8419.63	101035.58
		Step D	49.7744	3981.95	8627.56	103530.75
		Step E	51.0037	4080.30	8840.64	106087.70
		Step F	52.2633	4181.06	9058.97	108707.66
		Step G	53.5539	4284.31	9282.68	111392.11
		Step H	54.8765	4390.12	9511.93	114143.12
		Step I	56.2318	4498.54	9746.85	116962.14
		Step J	57.6204	4609.63	9987.54	119850.43
		Step K	59.0434	4723.47	10234.19	122810.27
		Step L	60.5015	4840.12	10486.93	125843.12
		Step M	61.9957	4959.66	10745.92	128951.06



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3740B	Interpretive Services Supervisor-B	Step A	32.4924	2599.39	5632.02	67584.19
		Step B	33.2948	2663.58	5771.10	69253.18
		Step C	34.1170	2729.36	5913.61	70963.36
		Step D	34.9596	2796.77	6059.66	72715.97
		Step E	35.8230	2865.84	6209.32	74511.84
		Step F	36.7076	2936.61	6362.65	76351.81
		Step G	37.6143	3009.14	6519.81	78237.74
		Step H	38.5431	3083.45	6680.80	80169.65
		Step I	39.4950	3159.60	6845.80	82149.60
		Step J	40.4704	3237.63	7014.87	84178.43
		Step K	41.4699	3317.59	7188.12	86257.39
		Step L	42.4940	3399.52	7365.63	88387.52
		Step M	43.5434	3483.47	7547.52	90570.27



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3810B	Key Accounts Representative-B	Step A	53.1258	4250.06	9208.47	110501.66
		Step B	54.4378	4355.02	9435.89	113230.62
		Step C	55.7822	4462.58	9668.91	116026.98
		Step D	57.1598	4572.78	9907.70	118892.38
		Step E	58.5714	4685.71	10152.38	121828.51
		Step F	60.0179	4801.43	10403.10	124837.23
		Step G	61.5001	4920.01	10660.02	127920.21
		Step H	63.0189	5041.51	10923.28	131079.31
		Step I	64.5752	5166.02	11193.03	134316.42
		Step J	66.1700	5293.60	11469.47	137633.60
		Step K	67.8041	5424.33	11752.71	141032.53
		Step L	69.4786	5558.29	12042.96	144515.49
		Step M	71.1944	5695.55	12340.36	148084.35



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
4449B	Management Analyst-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	39.9684	3197.47	6927.86	83134.27
Step B	40.9549	3276.39	7098.85	85186.19
Step C	41.9662	3357.30	7274.14	87289.70
Step D	43.0027	3440.22	7453.80	89445.62
Step E	44.0648	3525.18	7637.90	91654.78
Step F	45.1529	3612.23	7826.50	93918.03
Step G	46.2680	3701.44	8019.79	96237.44
Step H	47.4107	3792.86	8217.85	98614.26
Step I	48.5815	3886.52	8420.79	101049.52
Step J	49.7814	3982.51	8628.78	103545.31
Step K	51.0107	4080.86	8841.85	106102.26
Step L	52.2705	4181.64	9060.22	108722.64
Step M	53.5613	4284.90	9283.96	111407.50



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5020B	Park Development Analyst I-B	Step A	34.6046	2768.37	5998.13	71977.57
		Step B	35.4588	2836.70	6146.19	73754.30
		Step C	36.3345	2906.76	6297.98	75575.76
		Step D	37.2318	2978.54	6453.51	77442.14
		Step E	38.1513	3052.10	6612.89	79354.70
		Step F	39.0935	3127.48	6776.21	81314.48
		Step G	40.0590	3204.72	6943.56	83322.72
		Step H	41.0482	3283.86	7115.02	85380.26
		Step I	42.0620	3364.96	7290.75	87488.96
		Step J	43.1007	3448.06	7470.79	89649.46
		Step K	44.1651	3533.21	7655.28	91863.41
		Step L	45.2559	3620.47	7844.36	94132.27
		Step M	46.3735	3709.88	8038.07	96456.88



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5022B	Park Development Analyst II-B	Step A	38.0652	3045.22	6597.97	79175.62
		Step B	39.0048	3120.38	6760.83	81129.98
		Step C	39.9679	3197.43	6927.77	83133.23
		Step D	40.9550	3276.40	7098.87	85186.40
		Step E	41.9664	3357.31	7274.18	87290.11
		Step F	43.0029	3440.23	7453.84	89446.03
		Step G	44.0649	3525.19	7637.92	91654.99
		Step H	45.1531	3612.25	7826.54	93918.45
		Step I	46.2682	3701.46	8019.82	96237.86
		Step J	47.4109	3792.87	8217.89	98614.67
		Step K	48.5816	3886.53	8420.81	101049.73
		Step L	49.7815	3982.52	8628.79	103545.52
		Step M	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5024B	Parks Planning and Development Superintendent-B	Step A	46.1363	3690.90	7996.96	95963.50
		Step B	47.2758	3782.06	8194.47	98333.66
		Step C	48.4433	3875.46	8396.84	100762.06
		Step D	49.6396	3971.17	8604.20	103250.37
		Step E	50.8655	4069.24	8816.69	105800.24
		Step F	52.1217	4169.74	9034.43	108413.14
		Step G	53.4089	4272.71	9257.54	111090.51
		Step H	54.7278	4378.22	9486.15	113833.82
		Step I	56.0794	4486.35	9720.43	116645.15
		Step J	57.4643	4597.14	9960.48	119525.74
		Step K	58.8836	4710.69	10206.49	122477.89
		Step L	60.3377	4827.02	10458.53	125502.42
		Step M	61.8279	4946.23	10716.84	128602.03



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5082B	Parks Recreation and Libraries Director-B	Step A	75.4652	6037.22	13080.63	156967.62
		Step B	77.3289	6186.31	13403.68	160844.11
		Step C	79.2386	6339.09	13734.69	164816.29
		Step D	81.1955	6495.64	14073.89	168886.64
		Step E	83.2006	6656.05	14421.44	173057.25
		Step F	85.2555	6820.44	14777.62	177331.44
		Step G	87.3609	6988.87	15142.56	181710.67
		Step H	89.5183	7161.46	15516.51	186198.06
		Step I	91.7290	7338.32	15899.69	190796.32
		Step J	93.9945	7519.56	16292.38	195508.56
		Step K	96.3157	7705.26	16694.72	200336.66
		Step L	98.6943	7895.54	17107.01	205284.14
		Step M	101.1317	8090.54	17529.49	210353.94



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9547B	Parks Recreation and Libraries Manager-B	Step A	48.2600	3860.80	8365.07	100380.80
		Step B	49.4519	3956.15	8571.66	102859.95
		Step C	50.6731	4053.85	8783.34	105400.05
		Step D	51.9246	4153.97	9000.26	108003.17
		Step E	53.2068	4256.54	9222.51	110670.14
		Step F	54.5209	4361.67	9450.29	113403.47
		Step G	55.8673	4469.38	9683.67	116203.98
		Step H	57.2470	4579.76	9922.81	119073.76
		Step I	58.6608	4692.86	10167.87	122014.46
		Step J	60.1095	4808.76	10418.98	125027.76
		Step K	61.5940	4927.52	10676.29	128115.52
		Step L	63.1151	5049.21	10939.95	131279.41
		Step M	64.6738	5173.90	11210.13	134521.50



City of Roseville

Salary Schedule: Management-B

Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9546B	Parks Recreation and Libraries Superintendent-B	Step A	41.9421	3355.37	7269.96	87239.57
		Step B	42.9780	3438.24	7449.52	89394.24
		Step C	44.0394	3523.15	7633.50	91601.95
		Step D	45.1269	3610.15	7822.00	93863.95
		Step E	46.2413	3699.30	8015.16	96181.90
		Step F	47.3834	3790.67	8213.12	98557.47
		Step G	48.5536	3884.29	8415.96	100991.49
		Step H	49.7526	3980.21	8623.78	103485.41
		Step I	50.9813	4078.50	8836.76	106041.10
		Step J	52.2403	4179.22	9054.99	108659.82
		Step K	53.5305	4282.44	9278.62	111343.44
		Step L	54.8524	4388.19	9507.75	114092.99
		Step M	56.2071	4496.57	9742.56	116910.77



City of Roseville

Salary Schedule: Management-B

Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5069B	Parks Supervisor-B	Step A	31.2209	2497.67	5411.62	64939.47
		Step B	31.9920	2559.36	5545.28	66543.36
		Step C	32.7820	2622.56	5682.21	68186.56
		Step D	33.5917	2687.34	5822.56	69870.74
		Step E	34.4213	2753.70	5966.36	71596.30
		Step F	35.2713	2821.70	6113.69	73364.30
		Step G	36.1424	2891.39	6264.68	75176.19
		Step H	37.0349	2962.79	6419.38	77032.59
		Step I	37.9496	3035.97	6577.93	78935.17
		Step J	38.8867	3110.94	6740.36	80884.34
		Step K	39.8472	3187.78	6906.85	82882.18
		Step L	40.8312	3266.50	7077.41	84928.90
		Step M	41.8395	3347.16	7252.18	87026.16



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9428B	Payroll Supervisor-B	Step A	42.5513	3404.10	7375.56	88506.70
		Step B	43.6021	3488.17	7557.70	90692.37
		Step C	44.6789	3574.31	7744.34	92932.11
		Step D	45.7823	3662.58	7935.60	95227.18
		Step E	46.9130	3753.04	8131.59	97579.04
		Step F	48.0715	3845.72	8332.39	99988.72
		Step G	49.2587	3940.70	8538.17	102458.10
		Step H	50.4752	4038.02	8749.03	104988.42
		Step I	51.7217	4137.74	8965.09	107581.14
		Step J	52.9991	4239.93	9186.51	110238.13
		Step K	54.3079	4344.63	9413.37	112960.43
		Step L	55.6491	4451.93	9645.84	115750.13
		Step M	57.0234	4561.87	9884.06	118608.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
1501B	Permits Supervisor-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	38.0652	3045.22	6597.97	79175.62
Step B	39.0048	3120.38	6760.83	81129.98
Step C	39.9679	3197.43	6927.77	83133.23
Step D	40.9550	3276.40	7098.87	85186.40
Step E	41.9664	3357.31	7274.18	87290.11
Step F	43.0029	3440.23	7453.84	89446.03
Step G	44.0649	3525.19	7637.92	91654.99
Step H	45.1531	3612.25	7826.54	93918.45
Step I	46.2682	3701.46	8019.82	96237.86
Step J	47.4109	3792.87	8217.89	98614.67
Step K	48.5816	3886.53	8420.81	101049.73
Step L	49.7815	3982.52	8628.79	103545.52
Step M	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5309B	Planning Manager-B	Step A	57.7618	4620.94	10012.05	120144.54
		Step B	59.1877	4735.02	10259.20	123110.42
		Step C	60.6495	4851.96	10512.58	126150.96
		Step D	62.1472	4971.78	10772.18	129266.18
		Step E	63.6820	5094.56	11038.21	132458.56
		Step F	65.2547	5220.38	11310.81	135729.78
		Step G	66.8663	5349.30	11590.16	139081.90
		Step H	68.5175	5481.40	11876.37	142516.40
		Step I	70.2097	5616.78	12169.68	146036.18
		Step J	71.9436	5755.49	12470.22	149642.69
		Step K	73.7203	5897.62	12778.19	153338.22
		Step L	75.5409	6043.27	13093.76	157125.07
		Step M	77.4064	6192.51	13417.11	161005.31



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
5400B	Police Captain-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	63.5101	5080.81	11008.42	132101.01
Step B	65.0786	5206.29	11280.29	135363.49
Step C	66.6858	5334.86	11558.87	138706.46
Step D	68.3326	5466.61	11844.32	142131.81
Step E	70.0202	5601.62	12136.83	145642.02
Step F	71.7494	5739.95	12436.56	149238.75
Step G	73.5213	5881.70	12743.69	152924.30
Step H	75.3370	6026.96	13058.41	156700.96
Step I	77.1975	6175.80	13380.90	160570.80
Step J	79.1040	6328.32	13711.36	164536.32
Step K	81.0576	6484.61	14049.98	168599.81
Step L	83.0594	6644.75	14396.96	172763.55
Step M	85.1106	6808.85	14752.50	177030.05



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code Grade Name

5410B	Police Chief-B	Step A	84.8565	6788.52	14708.46	176501.52
		Step B	86.9521	6956.17	15071.70	180860.37
		Step C	89.0995	7127.96	15443.91	185326.96
		Step D	91.2999	7303.99	15825.32	189903.79
		Step E	93.5547	7484.38	16216.15	194593.78
		Step F	95.8651	7669.21	16616.62	199399.41
		Step G	98.2326	7858.61	17026.98	204323.81
		Step H	100.6585	8052.68	17447.47	209369.68
		Step I	103.1444	8251.55	17878.36	214540.35
		Step J	105.6916	8455.33	18319.88	219838.53
		Step K	108.3018	8664.14	18772.31	225267.74
		Step L	110.9764	8878.11	19235.91	230830.91
		Step M	113.7171	9097.37	19710.96	236531.57



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5420B	Police Lieutenant-B	Step A	55.8477	4467.82	9680.27	116163.22
		Step B	57.2263	4578.10	9919.23	119030.70
		Step C	58.6396	4691.17	10164.20	121970.37
		Step D	60.0877	4807.02	10415.20	124982.42
		Step E	61.5717	4925.74	10672.43	128069.14
		Step F	63.0923	5047.38	10936.00	131231.98
		Step G	64.6504	5172.03	11206.07	134472.83
		Step H	66.2470	5299.76	11482.81	137793.76
		Step I	67.8831	5430.65	11766.40	141196.85
		Step J	69.5595	5564.76	12056.98	144683.76
		Step K	71.2773	5702.18	12354.73	148256.78
		Step L	73.0376	5843.01	12659.85	151918.21
		Step M	74.8413	5987.30	12972.49	155669.90



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5489B	Police Services Administrator-B	Step A	47.5664	3805.31	8244.84	98938.11
		Step B	48.7411	3899.29	8448.46	101381.49
		Step C	49.9449	3995.59	8657.12	103885.39
		Step D	51.1782	4094.26	8870.89	106450.66
		Step E	52.4421	4195.37	9089.96	109079.57
		Step F	53.7373	4298.98	9314.47	111773.58
		Step G	55.0643	4405.14	9544.48	114533.74
		Step H	56.4242	4513.94	9780.19	117362.34
		Step I	57.8177	4625.42	10021.73	120260.82
		Step J	59.2455	4739.64	10269.22	123230.64
		Step K	60.7086	4856.69	10522.82	126273.89
		Step L	62.2079	4976.63	10782.70	129392.43
		Step M	63.7443	5099.54	11049.01	132588.14



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1039B	Police Social Services Practitioner-B	Step A	31.2076	2496.61	5409.32	64911.81
		Step B	31.9779	2558.23	5542.84	66514.03
		Step C	32.7677	2621.42	5679.73	68156.82
		Step D	33.5769	2686.15	5820.00	69839.95
		Step E	34.4061	2752.49	5963.72	71564.69
		Step F	35.2558	2820.46	6111.01	73332.06
		Step G	36.1265	2890.12	6261.93	75143.12
		Step H	37.0187	2961.50	6416.57	76998.90
		Step I	37.9329	3034.63	6575.04	78900.43
		Step J	38.8697	3109.58	6737.41	80848.98
		Step K	39.8296	3186.37	6903.80	82845.57
		Step L	40.8132	3265.06	7074.29	84891.46
		Step M	41.8212	3345.70	7249.01	86988.10



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5505B	Power Engineering Manager-B	Step A	74.8525	5988.20	12974.43	155693.20
		Step B	76.7010	6136.08	13294.84	159538.08
		Step C	78.5952	6287.62	13623.17	163478.02
		Step D	80.5362	6442.90	13959.61	167515.30
		Step E	82.5252	6602.02	14304.37	171652.42
		Step F	84.5632	6765.06	14657.62	175891.46
		Step G	86.6516	6932.13	15019.61	180235.33
		Step H	88.7915	7103.32	15390.53	184686.32
		Step I	90.9842	7278.74	15770.59	189247.14
		Step J	93.2312	7458.50	16160.07	193920.90
		Step K	95.5337	7642.70	16559.17	198710.10
		Step L	97.8930	7831.44	16968.12	203617.44
		Step M	100.3105	8024.84	17387.15	208645.84



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5600B	Power Generation Superintendent-B	Step A	71.1470	5691.76	12332.15	147985.76
		Step B	72.9041	5832.33	12636.71	151640.53
		Step C	74.7046	5976.37	12948.80	155385.57
		Step D	76.5495	6123.96	13268.58	159222.96
		Step E	78.4399	6275.19	13596.25	163154.99
		Step F	80.3770	6430.16	13932.01	167184.16
		Step G	82.3620	6588.96	14276.08	171312.96
		Step H	84.3960	6751.68	14628.64	175543.68
		Step I	86.4803	6918.42	14989.92	179879.02
		Step J	88.6160	7089.28	15360.11	184321.28
		Step K	90.8045	7264.36	15739.45	188873.36
		Step L	93.0470	7443.76	16128.15	193537.76
		Step M	95.3449	7627.59	16526.45	198317.39



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5530B	Power Plant Operations and Maintenance Supervisor-B	Step A	67.7541	5420.33	11744.04	140928.53
		Step B	69.4273	5554.18	12034.07	144408.78
		Step C	71.1419	5691.35	12331.26	147975.15
		Step D	72.8989	5831.91	12635.81	151629.71
		Step E	74.6991	5975.93	12947.84	155374.13
		Step F	76.5439	6123.51	13267.61	159211.31
		Step G	78.4342	6274.74	13595.26	163143.14
		Step H	80.3712	6429.70	13931.01	167172.10
		Step I	82.3561	6588.49	14275.06	171300.69
		Step J	84.3899	6751.19	14627.58	175530.99
		Step K	86.4741	6917.93	14988.84	179866.13
		Step L	88.6096	7088.77	15359.00	184307.97
		Step M	90.7979	7263.83	15738.30	188859.63



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5535B	Power Supply and Portfolio Administrator-B	Step A	73.6034	5888.27	12757.92	153095.07
		Step B	75.4211	6033.69	13072.99	156875.89
		Step C	77.2837	6182.70	13395.84	160750.10
		Step D	79.1923	6335.38	13726.67	164719.98
		Step E	81.1480	6491.84	14065.65	168787.84
		Step F	83.1521	6652.17	14413.03	172956.37
		Step G	85.2056	6816.45	14768.97	177227.65
		Step H	87.3098	6984.78	15133.70	181604.38
		Step I	89.4660	7157.28	15507.44	186089.28
		Step J	91.6755	7334.04	15890.42	190685.04
		Step K	93.9395	7515.16	16282.85	195394.16
		Step L	96.2594	7700.75	16684.96	200219.55
		Step M	98.6367	7890.94	17097.03	205164.34



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5519B	Preventative Maintenance Supervisor-B	Step A	46.6815	3734.52	8091.46	97097.52
		Step B	47.8343	3826.74	8291.28	99495.34
		Step C	49.0156	3921.25	8496.04	101952.45
		Step D	50.2261	4018.09	8705.86	104470.29
		Step E	51.4665	4117.32	8920.86	107050.32
		Step F	52.7375	4219.00	9141.17	109694.00
		Step G	54.0400	4323.20	9366.93	112403.20
		Step H	55.3745	4429.96	9598.25	115178.96
		Step I	56.7420	4539.36	9835.28	118023.36
		Step J	58.1433	4651.46	10078.17	120938.06
		Step K	59.5792	4766.34	10327.06	123924.74
		Step L	61.0506	4884.05	10582.10	126985.25
		Step M	62.5583	5004.66	10843.44	130121.26



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5514B	Principal Engineer-B	Step A	52.2508	4180.06	9056.81	108681.66
		Step B	53.5405	4283.24	9280.35	111364.24
		Step C	54.8627	4389.02	9509.53	114114.42
		Step D	56.2177	4497.42	9744.40	116932.82
		Step E	57.6060	4608.48	9985.04	119820.48
		Step F	59.0286	4722.29	10231.62	122779.49
		Step G	60.4865	4838.92	10484.33	125811.92
		Step H	61.9803	4958.42	10743.25	128919.02
		Step I	63.5109	5080.87	11008.56	132102.67
		Step J	65.0792	5206.34	11280.39	135364.74
		Step K	66.6864	5334.91	11558.98	138707.71
		Step L	68.3334	5466.67	11844.46	142133.47
		Step M	70.0209	5601.67	12136.96	145643.47



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
5513B	Principal Planner-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	48.2529	3860.23	8363.84	100366.03
Step B	49.4440	3955.52	8570.29	102843.52
Step C	50.6651	4053.21	8781.95	105383.41
Step D	51.9163	4153.30	8998.83	107985.90
Step E	53.1985	4255.88	9221.07	110652.88
Step F	54.5122	4360.98	9448.78	113385.38
Step G	55.8585	4468.68	9682.14	116185.68
Step H	57.2380	4579.04	9921.25	119055.04
Step I	58.6515	4692.12	10166.26	121995.12
Step J	60.1000	4808.00	10417.33	125008.00
Step K	61.5842	4926.74	10674.59	128095.14
Step L	63.1051	5048.41	10938.22	131258.61
Step M	64.6636	5173.09	11208.36	134500.29



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
1004B	Process Engineer-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	52.2508	4180.06	9056.81	108681.66
Step B	53.5405	4283.24	9280.35	111364.24
Step C	54.8627	4389.02	9509.53	114114.42
Step D	56.2177	4497.42	9744.40	116932.82
Step E	57.6060	4608.48	9985.04	119820.48
Step F	59.0286	4722.29	10231.62	122779.49
Step G	60.4865	4838.92	10484.33	125811.92
Step H	61.9803	4958.42	10743.25	128919.02
Step I	63.5109	5080.87	11008.56	132102.67
Step J	65.0792	5206.34	11280.39	135364.74
Step K	66.6864	5334.91	11558.98	138707.71
Step L	68.3334	5466.67	11844.46	142133.47
Step M	70.0209	5601.67	12136.96	145643.47



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5565B	Public Information Officer-B	Step A	45.9355	3674.84	7962.15	95545.84
		Step B	47.0699	3765.59	8158.78	97905.39
		Step C	48.2323	3858.58	8360.27	100323.18
		Step D	49.4235	3953.88	8566.74	102800.88
		Step E	50.6441	4051.53	8778.31	105339.73
		Step F	51.8948	4151.58	8995.10	107941.18
		Step G	53.1764	4254.11	9217.24	110606.91
		Step H	54.4896	4359.17	9444.86	113338.37
		Step I	55.8353	4466.82	9678.12	116137.42
		Step J	57.2142	4577.14	9917.13	119005.54
		Step K	58.6272	4690.18	10162.05	121944.58
		Step L	60.0750	4806.00	10413.00	124956.00
		Step M	61.5586	4924.69	10670.16	128041.89



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5635B	Public Works Director-B	Step A	74.6012	5968.10	12930.87	155170.50
		Step B	76.4435	6115.48	13250.21	159002.48
		Step C	78.3315	6266.52	13577.46	162929.52
		Step D	80.2659	6421.27	13912.76	166953.07
		Step E	82.2482	6579.86	14256.35	171076.26
		Step F	84.2794	6742.35	14608.43	175301.15
		Step G	86.3607	6908.86	14969.19	179630.26
		Step H	88.4934	7079.47	15338.86	184066.27
		Step I	90.6789	7254.31	15717.68	188612.11
		Step J	92.9183	7433.46	16105.84	193270.06
		Step K	95.2130	7617.04	16503.59	198043.04
		Step L	97.5644	7805.15	16911.16	202933.95
		Step M	99.9738	7997.90	17328.79	207945.50



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5652B	Purchasing and Warehouse Manager-B	Step A	47.6403	3811.22	8257.65	99091.82
		Step B	48.8168	3905.34	8461.58	101538.94
		Step C	50.0224	4001.79	8670.55	104046.59
		Step D	51.2577	4100.62	8884.67	106616.02
		Step E	52.5236	4201.89	9104.09	109249.09
		Step F	53.8207	4305.66	9328.92	111947.06
		Step G	55.1499	4411.99	9559.32	114711.79
		Step H	56.5119	4520.95	9795.40	117544.75
		Step I	57.9075	4632.60	10037.30	120447.60
		Step J	59.3375	4747.00	10285.17	123422.00
		Step K	60.8030	4864.24	10539.19	126470.24
		Step L	62.3045	4984.36	10799.45	129593.36
		Step M	63.8432	5107.46	11066.15	132793.86



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9544B	Recreation and Library Supervisor-B	Step A	32.4924	2599.39	5632.02	67584.19
		Step B	33.2948	2663.58	5771.10	69253.18
		Step C	34.1170	2729.36	5913.61	70963.36
		Step D	34.9596	2796.77	6059.66	72715.97
		Step E	35.8230	2865.84	6209.32	74511.84
		Step F	36.7076	2936.61	6362.65	76351.81
		Step G	37.6143	3009.14	6519.81	78237.74
		Step H	38.5431	3083.45	6680.80	80169.65
		Step I	39.4950	3159.60	6845.80	82149.60
		Step J	40.4704	3237.63	7014.87	84178.43
		Step K	41.4699	3317.59	7188.12	86257.39
		Step L	42.4940	3399.52	7365.63	88387.52
		Step M	43.5434	3483.47	7547.52	90570.27



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6231B	Refuse Superintendent-B	Step A	44.4348	3554.78	7702.03	92424.38
		Step B	45.5316	3642.53	7892.14	94705.73
		Step C	46.6561	3732.49	8087.06	97044.69
		Step D	47.8083	3824.66	8286.77	99441.26
		Step E	48.9889	3919.11	8491.41	101896.91
		Step F	50.1988	4015.90	8701.13	104413.50
		Step G	51.4384	4115.07	8915.99	106991.87
		Step H	52.7088	4216.70	9136.19	109634.30
		Step I	54.0106	4320.85	9361.84	112342.05
		Step J	55.3443	4427.54	9593.01	115116.14
		Step K	56.7111	4536.89	9829.92	117959.09
		Step L	58.1117	4648.94	10072.69	120872.34
		Step M	59.5468	4763.74	10321.45	123857.34



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6235B	Refuse Supervisor-B	Step A	35.1230	2809.84	6087.99	73055.84
		Step B	35.9894	2879.15	6238.16	74857.95
		Step C	36.8783	2950.26	6392.24	76706.86
		Step D	37.7890	3023.12	6550.09	78601.12
		Step E	38.7223	3097.78	6711.87	80542.38
		Step F	39.6787	3174.30	6877.64	82531.70
		Step G	40.6585	3252.68	7047.47	84569.68
		Step H	41.6626	3333.01	7221.52	86658.21
		Step I	42.6915	3415.32	7399.86	88798.32
		Step J	43.7457	3499.66	7582.59	90991.06
		Step K	44.8261	3586.09	7769.86	93238.29
		Step L	45.9332	3674.66	7961.75	95541.06
		Step M	47.0675	3765.40	8158.37	97900.40



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6244B	Refuse and Stormwater Manager-B	Step A	58.7839	4702.71	10189.21	122270.51
		Step B	60.2347	4818.78	10440.68	125288.18
		Step C	61.7223	4937.78	10698.53	128382.38
		Step D	63.2466	5059.73	10962.74	131552.93
		Step E	64.8085	5184.68	11233.47	134801.68
		Step F	66.4091	5312.73	11510.91	138130.93
		Step G	68.0491	5443.93	11795.18	141542.13
		Step H	69.7296	5578.37	12086.46	145037.57
		Step I	71.4517	5716.14	12384.96	148619.54
		Step J	73.2164	5857.31	12690.84	152290.11
		Step K	75.0244	6001.95	13004.23	156050.75
		Step L	76.8772	6150.18	13325.38	159904.58
		Step M	78.7758	6302.06	13654.47	163853.66



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
6450B	Risk Manager-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	52.2551	4180.41	9057.55	108690.61
Step B	53.5451	4283.61	9281.15	111373.81
Step C	54.8674	4389.39	9510.35	114124.19
Step D	56.2225	4497.80	9745.23	116942.80
Step E	57.6109	4608.87	9985.89	119830.67
Step F	59.0336	4722.69	10232.49	122789.89
Step G	60.4916	4839.33	10485.21	125822.53
Step H	61.9855	4958.84	10744.15	128929.84
Step I	63.5162	5081.30	11009.47	132113.70
Step J	65.0847	5206.78	11281.35	135376.18
Step K	66.6920	5335.36	11559.95	138719.36
Step L	68.3391	5467.13	11845.44	142145.33
Step M	70.0269	5602.15	12138.00	145655.95



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6500B	Safety Coordinator-B	Step A	38.0651	3045.21	6597.95	79175.41
		Step B	39.0048	3120.38	6760.83	81129.98
		Step C	39.9679	3197.43	6927.77	83133.23
		Step D	40.9550	3276.40	7098.87	85186.40
		Step E	41.9664	3357.31	7274.18	87290.11
		Step F	43.0029	3440.23	7453.84	89446.03
		Step G	44.0649	3525.19	7637.92	91654.99
		Step H	45.1531	3612.25	7826.54	93918.45
		Step I	46.2682	3701.46	8019.82	96237.86
		Step J	47.4109	3792.87	8217.89	98614.67
		Step K	48.5816	3886.53	8420.81	101049.73
		Step L	49.7815	3982.52	8628.79	103545.52
		Step M	51.0109	4080.87	8841.89	106102.67



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7130B	Senior Business Systems Analyst-B	Step A	36.1708	2893.66	6269.61	75235.26
		Step B	37.0636	2965.09	6424.36	77092.29
		Step C	37.9789	3038.31	6583.01	78996.11
		Step D	38.9168	3113.34	6745.58	80946.94
		Step E	39.8779	3190.23	6912.17	82946.03
		Step F	40.8627	3269.02	7082.87	84994.42
		Step G	41.8719	3349.75	7257.80	87093.55
		Step H	42.9059	3432.47	7437.02	89244.27
		Step I	43.9656	3517.25	7620.70	91448.45
		Step J	45.0513	3604.10	7808.89	93706.70
		Step K	46.1638	3693.10	8001.73	96020.70
		Step L	47.3039	3784.31	8199.34	98392.11
		Step M	48.4722	3877.78	8401.85	100822.18



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7145B	Senior Database Analyst-B	Step A	37.4271	2994.17	6487.36	77848.37
		Step B	38.3513	3068.10	6647.56	79770.70
		Step C	39.2985	3143.88	6811.74	81740.88
		Step D	40.2690	3221.52	6979.96	83759.52
		Step E	41.2635	3301.08	7152.34	85828.08
		Step F	42.2825	3382.60	7328.97	87947.60
		Step G	43.3268	3466.14	7509.98	90119.74
		Step H	44.3968	3551.74	7695.45	92345.34
		Step I	45.4932	3639.46	7885.49	94625.86
		Step J	46.6167	3729.34	8080.23	96962.74
		Step K	47.7679	3821.43	8279.77	99357.23
		Step L	48.9476	3915.81	8484.25	101811.01
		Step M	50.1564	4012.51	8693.78	104325.31



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7123B	Senior Deputy City Attorney-B	Step A	72.3919	5791.35	12547.93	150575.15
		Step B	74.1796	5934.37	12857.80	154293.57
		Step C	76.0116	6080.93	13175.34	158104.13
		Step D	77.8888	6231.10	13500.73	162008.70
		Step E	79.8123	6384.98	13834.13	166009.58
		Step F	81.7834	6542.67	14175.79	170109.47
		Step G	83.8031	6704.25	14525.87	174310.45
		Step H	85.8728	6869.82	14884.62	178615.42
		Step I	87.9935	7039.48	15252.21	183026.48
		Step J	90.1666	7213.33	15628.88	187546.53
		Step K	92.3933	7391.46	16014.84	192178.06
		Step L	94.6751	7574.01	16410.35	196924.21
		Step M	97.0131	7761.05	16815.60	201787.25



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1281B	Senior Development Services Analyst-B	Step A	36.3253	2906.02	6296.39	75556.62
		Step B	37.2220	2977.76	6451.81	77421.76
		Step C	38.1412	3051.30	6611.14	79333.70
		Step D	39.0831	3126.65	6774.40	81292.85
		Step E	40.0483	3203.86	6941.71	83300.46
		Step F	41.0374	3282.99	7113.15	85357.79
		Step G	42.0508	3364.06	7288.81	87465.66
		Step H	43.0893	3447.14	7468.81	89625.74
		Step I	44.1534	3532.27	7653.26	91839.07
		Step J	45.2439	3619.51	7842.28	94107.31
		Step K	46.3612	3708.90	8035.94	96431.30
		Step L	47.5061	3800.49	8234.39	98812.69
		Step M	48.6793	3894.34	8437.75	101252.94



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7128B	Senior Electric Business Analyst-B	Step A	54.5599	4364.79	9457.05	113484.59
		Step B	55.9073	4472.58	9690.60	116287.18
		Step C	57.2881	4583.05	9929.94	119159.25
		Step D	58.7029	4696.23	10175.17	122102.03
		Step E	60.1526	4812.21	10426.45	125117.41
		Step F	61.6380	4931.04	10683.92	128207.04
		Step G	63.1602	5052.82	10947.77	131373.22
		Step H	64.7201	5177.61	11218.15	134617.81
		Step I	66.3184	5305.47	11495.19	137942.27
		Step J	67.9562	5436.50	11779.07	141348.90
		Step K	69.6344	5570.75	12069.96	144839.55
		Step L	71.3541	5708.33	12368.04	148416.53
		Step M	73.1164	5849.31	12673.51	152082.11



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Grade Code	Management Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1023B	Senior Electric Technology Systems Analyst-B	Step A	51.4809	4118.47	8923.36	107080.27
		Step B	52.7517	4220.14	9143.63	109723.54
		Step C	54.0544	4324.35	9369.43	112433.15
		Step D	55.3894	4431.15	9600.83	115209.95
		Step E	56.7573	4540.58	9837.93	118055.18
		Step F	58.1589	4652.71	10080.88	120970.51
		Step G	59.5952	4767.62	10329.83	123958.02
		Step H	61.0670	4885.36	10584.95	127019.36
		Step I	62.5751	5006.01	10846.35	130156.21
		Step J	64.1205	5129.64	11114.22	133370.64
		Step K	65.7040	5256.32	11388.69	136664.32
		Step L	67.3266	5386.13	11669.94	140039.33
		Step M	68.9893	5519.14	11958.15	143497.74



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7163B	Senior Energy Services Account Representative-B	Step A	53.1258	4250.06	9208.47	110501.66
		Step B	54.4378	4355.02	9435.89	113230.62
		Step C	55.7822	4462.58	9668.91	116026.98
		Step D	57.1598	4572.78	9907.70	118892.38
		Step E	58.5714	4685.71	10152.38	121828.51
		Step F	60.0179	4801.43	10403.10	124837.23
		Step G	61.5001	4920.01	10660.02	127920.21
		Step H	63.0189	5041.51	10923.28	131079.31
		Step I	64.5752	5166.02	11193.03	134316.42
		Step J	66.1700	5293.60	11469.47	137633.60
		Step K	67.8041	5424.33	11752.71	141032.53
		Step L	69.4786	5558.29	12042.96	144515.49
		Step M	71.1944	5695.55	12340.36	148084.35



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7142B	Senior Engineer-B	Step A	46.6732	3733.86	8090.02	97080.26
		Step B	47.8254	3826.03	8289.74	99476.83
		Step C	49.0064	3920.51	8494.44	101933.31
		Step D	50.2167	4017.34	8704.23	104450.74
		Step E	51.4569	4116.55	8919.20	107030.35
		Step F	52.7276	4218.21	9139.45	109673.41
		Step G	54.0299	4322.39	9365.18	112382.19
		Step H	55.3642	4429.14	9596.46	115157.54
		Step I	56.7314	4538.51	9833.44	118001.31
		Step J	58.1325	4650.60	10076.30	120915.60
		Step K	59.5682	4765.46	10325.15	123901.86
		Step L	61.0392	4883.14	10580.13	126961.54
		Step M	62.5467	5003.74	10841.43	130097.14



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7161B	Senior GIS Analyst-B	Step A	36.1680	2893.44	6269.12	75229.44
		Step B	37.0608	2964.86	6423.87	77086.46
		Step C	37.9761	3038.09	6582.52	78990.29
		Step D	38.9140	3113.12	6745.09	80941.12
		Step E	39.8749	3189.99	6911.65	82939.79
		Step F	40.8598	3268.78	7082.37	84988.38
		Step G	41.8689	3349.51	7257.28	87087.31
		Step H	42.9028	3432.22	7436.49	89237.82
		Step I	43.9624	3516.99	7620.15	91441.79
		Step J	45.0480	3603.84	7808.32	93699.84
		Step K	46.1606	3692.85	8001.17	96014.05
		Step L	47.3005	3784.04	8198.75	98385.04
		Step M	48.4686	3877.49	8401.22	100814.69



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7150B	Senior Human Resources Analyst-B	Step A	39.9684	3197.47	6927.86	83134.27
		Step B	40.9549	3276.39	7098.85	85186.19
		Step C	41.9662	3357.30	7274.14	87289.70
		Step D	43.0027	3440.22	7453.80	89445.62
		Step E	44.0648	3525.18	7637.90	91654.78
		Step F	45.1529	3612.23	7826.50	93918.03
		Step G	46.2680	3701.44	8019.79	96237.44
		Step H	47.4107	3792.86	8217.85	98614.26
		Step I	48.5815	3886.52	8420.79	101049.52
		Step J	49.7814	3982.51	8628.78	103545.31
		Step K	51.0107	4080.86	8841.85	106102.26
		Step L	52.2705	4181.64	9060.22	108722.64
		Step M	53.5613	4284.90	9283.96	111407.50



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7194B	Senior Information Technology Analyst-B	Step A	37.9824	3038.59	6583.62	79003.39
		Step B	38.9204	3113.63	6746.20	80954.43
		Step C	39.8815	3190.52	6912.79	82953.52
		Step D	40.8665	3269.32	7083.53	85002.32
		Step E	41.8757	3350.06	7258.45	87101.46
		Step F	42.9100	3432.80	7437.73	89252.80
		Step G	43.9696	3517.57	7621.40	91456.77
		Step H	45.0554	3604.43	7809.60	93715.23
		Step I	46.1682	3693.46	8002.49	96029.86
		Step J	47.3083	3784.66	8200.11	98401.26
		Step K	48.4767	3878.14	8402.63	100831.54
		Step L	49.6738	3973.90	8610.13	103321.50
		Step M	50.9006	4072.05	8822.77	105873.25



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7180B	Senior Planner-B	Step A	41.9600	3356.80	7273.07	87276.80
		Step B	42.9958	3439.66	7452.61	89431.26
		Step C	44.0576	3524.61	7636.65	91639.81
		Step D	45.1458	3611.66	7825.27	93903.26
		Step E	46.2606	3700.85	8018.50	96222.05
		Step F	47.4030	3792.24	8216.52	98598.24
		Step G	48.5738	3885.90	8419.46	101033.50
		Step H	49.7733	3981.86	8627.37	103528.46
		Step I	51.0024	4080.19	8840.42	106084.99
		Step J	52.2621	4180.97	9058.76	108705.17
		Step K	53.5527	4284.22	9282.47	111389.62
		Step L	54.8752	4390.02	9511.70	114140.42
		Step M	56.2304	4498.43	9746.60	116959.23



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7151B	Senior Power Engineer-B	Step A	66.2392	5299.14	11481.46	137777.54
		Step B	67.8751	5430.01	11765.02	141180.21
		Step C	69.5513	5564.10	12055.56	144666.70
		Step D	71.2690	5701.52	12353.29	148239.52
		Step E	73.0291	5842.33	12658.38	151900.53
		Step F	74.8326	5986.61	12970.98	155651.81
		Step G	76.6807	6134.46	13291.32	159495.86
		Step H	78.5744	6285.95	13619.56	163434.75
		Step I	80.5148	6441.18	13955.90	167470.78
		Step J	82.5032	6600.26	14300.55	171606.66
		Step K	84.5407	6763.26	14653.72	175844.66
		Step L	86.6286	6930.29	15015.62	180187.49
		Step M	88.7679	7101.43	15386.44	184637.23



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5555B	Senior Power Plant Engineer-B	Step A	66.2392	5299.14	11481.46	137777.54
		Step B	67.8751	5430.01	11765.02	141180.21
		Step C	69.5513	5564.10	12055.56	144666.70
		Step D	71.2690	5701.52	12353.29	148239.52
		Step E	73.0291	5842.33	12658.38	151900.53
		Step F	74.8326	5986.61	12970.98	155651.81
		Step G	76.6807	6134.46	13291.32	159495.86
		Step H	78.5744	6285.95	13619.56	163434.75
		Step I	80.5148	6441.18	13955.90	167470.78
		Step J	82.5032	6600.26	14300.55	171606.66
		Step K	84.5407	6763.26	14653.72	175844.66
		Step L	86.6286	6930.29	15015.62	180187.49
		Step M	88.7679	7101.43	15386.44	184637.23



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1029B	Senior Utility Billing Analyst-B	Step A	42.5475	3403.80	7374.90	88498.80
		Step B	43.5978	3487.82	7556.95	90683.42
		Step C	44.6745	3573.96	7743.58	92922.96
		Step D	45.7778	3662.22	7934.82	95217.82
		Step E	46.9083	3752.66	8130.77	97569.26
		Step F	48.0667	3845.34	8331.56	99978.74
		Step G	49.2538	3940.30	8537.33	102447.90
		Step H	50.4702	4037.62	8748.17	104978.02
		Step I	51.7166	4137.33	8964.21	107570.53
		Step J	52.9938	4239.50	9185.59	110227.10
		Step K	54.3025	4344.20	9412.43	112949.20
		Step L	55.6436	4451.49	9644.89	115738.69
		Step M	57.0177	4561.42	9883.07	118596.82



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7520B	Street Maintenance Superintendent-B	Step A	44.4419	3555.35	7703.26	92439.15
		Step B	45.5387	3643.10	7893.37	94720.50
		Step C	46.6633	3733.06	8088.31	97059.66
		Step D	47.8157	3825.26	8288.05	99456.66
		Step E	48.9966	3919.73	8492.74	101912.93
		Step F	50.2066	4016.53	8702.48	104429.73
		Step G	51.4465	4115.72	8917.39	107008.72
		Step H	52.7170	4217.36	9137.61	109651.36
		Step I	54.0189	4321.51	9363.28	112359.31
		Step J	55.3530	4428.24	9594.52	115134.24
		Step K	56.7199	4537.59	9831.45	117977.39
		Step L	58.1208	4649.66	10074.27	120891.26
		Step M	59.5561	4764.49	10323.06	123876.69



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7522B	Street Maintenance Supervisor-B	Step A	33.9502	2716.02	5884.70	70616.42
		Step B	34.7883	2783.06	6029.97	72359.66
		Step C	35.6474	2851.79	6178.88	74146.59
		Step D	36.5278	2922.22	6331.49	75977.82
		Step E	37.4299	2994.39	6487.85	77854.19
		Step F	38.3542	3068.34	6648.06	79776.74
		Step G	39.3014	3144.11	6812.24	81746.91
		Step H	40.2720	3221.76	6980.48	83765.76
		Step I	41.2666	3301.33	7152.88	85834.53
		Step J	42.2857	3382.86	7329.52	87954.26
		Step K	43.3300	3466.40	7510.53	90126.40
		Step L	44.4000	3552.00	7696.00	92352.00
		Step M	45.4965	3639.72	7886.06	94632.72



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name
8762B	Urban Forester-B

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	36.2522	2900.18	6283.71	75404.58
Step B	37.1470	2971.76	6438.81	77265.76
Step C	38.0643	3045.14	6597.81	79173.74
Step D	39.0044	3120.35	6760.76	81129.15
Step E	39.9676	3197.41	6927.72	83132.61
Step F	40.9547	3276.38	7098.81	85185.78
Step G	41.9661	3357.29	7274.12	87289.49
Step H	43.0025	3440.20	7453.77	89445.20
Step I	44.0646	3525.17	7637.86	91654.37
Step J	45.1528	3612.22	7826.49	93917.82
Step K	46.2679	3701.43	8019.77	96237.23
Step L	47.4105	3792.84	8217.82	98613.84
Step M	48.5813	3886.50	8420.76	101049.10



City of Roseville

Salary Schedule: Management-B

Appendix:J
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MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1646B	Utility Government Relations Administrator-B	Step A	46.0250	3682.00	7977.67	95732.00
		Step B	47.1611	3772.89	8174.59	98095.09
		Step C	48.3258	3866.06	8376.47	100517.66
		Step D	49.5193	3961.54	8583.35	103000.14
		Step E	50.7422	4059.38	8795.31	105543.78
		Step F	51.9954	4159.63	9012.54	108150.43
		Step G	53.2794	4262.35	9235.10	110821.15
		Step H	54.5952	4367.62	9463.17	113558.02
		Step I	55.9435	4475.48	9696.87	116362.48
		Step J	57.3251	4586.01	9936.35	119236.21
		Step K	58.7408	4699.26	10181.74	122180.86
		Step L	60.1915	4815.32	10433.19	125198.32
		Step M	61.6779	4934.23	10690.84	128290.03



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8980B	Wastewater Collection Superintendent-B	Step A	44.4348	3554.78	7702.03	92424.38
		Step B	45.5316	3642.53	7892.14	94705.73
		Step C	46.6561	3732.49	8087.06	97044.69
		Step D	47.8083	3824.66	8286.77	99441.26
		Step E	48.9889	3919.11	8491.41	101896.91
		Step F	50.1988	4015.90	8701.13	104413.50
		Step G	51.4384	4115.07	8915.99	106991.87
		Step H	52.7088	4216.70	9136.19	109634.30
		Step I	54.0106	4320.85	9361.84	112342.05
		Step J	55.3443	4427.54	9593.01	115116.14
		Step K	56.7111	4536.89	9829.92	117959.09
		Step L	58.1117	4648.94	10072.69	120872.34
		Step M	59.5468	4763.74	10321.45	123857.34



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8978B	Wastewater Collection Supervisor-B	Step A	36.2523	2900.18	6283.73	75404.78
		Step B	37.1470	2971.76	6438.81	77265.76
		Step C	38.0643	3045.14	6597.81	79173.74
		Step D	39.0044	3120.35	6760.76	81129.15
		Step E	39.9676	3197.41	6927.72	83132.61
		Step F	40.9547	3276.38	7098.81	85185.78
		Step G	41.9661	3357.29	7274.12	87289.49
		Step H	43.0025	3440.20	7453.77	89445.20
		Step I	44.0646	3525.17	7637.86	91654.37
		Step J	45.1528	3612.22	7826.49	93917.82
		Step K	46.2679	3701.43	8019.77	96237.23
		Step L	47.4105	3792.84	8217.82	98613.84
		Step M	48.5813	3886.50	8420.76	101049.10



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9040B	Wastewater Treatment Plant Chief Operator-B	Step A	47.8509	3828.07	8294.16	99529.87
		Step B	49.0320	3922.56	8498.88	101986.56
		Step C	50.2428	4019.42	8708.75	104505.02
		Step D	51.4836	4118.69	8923.82	107085.89
		Step E	52.7551	4220.41	9144.22	109730.61
		Step F	54.0579	4324.63	9370.04	112440.43
		Step G	55.3929	4431.43	9601.44	115217.23
		Step H	56.7609	4540.87	9838.56	118062.67
		Step I	58.1627	4653.02	10081.53	120978.42
		Step J	59.5991	4767.93	10330.51	123966.13
		Step K	61.0709	4885.67	10585.62	127027.47
		Step L	62.5792	5006.34	10847.06	130164.74
		Step M	64.1246	5129.97	11114.93	133379.17



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9045B	Wastewater Utility Manager-B	Step A	58.7839	4702.71	10189.21	122270.51
		Step B	60.2347	4818.78	10440.68	125288.18
		Step C	61.7223	4937.78	10698.53	128382.38
		Step D	63.2466	5059.73	10962.74	131552.93
		Step E	64.8085	5184.68	11233.47	134801.68
		Step F	66.4091	5312.73	11510.91	138130.93
		Step G	68.0491	5443.93	11795.18	141542.13
		Step H	69.7296	5578.37	12086.46	145037.57
		Step I	71.4517	5716.14	12384.96	148619.54
		Step J	73.2164	5857.31	12690.84	152290.11
		Step K	75.0244	6001.95	13004.23	156050.75
		Step L	76.8772	6150.18	13325.38	159904.58
		Step M	78.7758	6302.06	13654.47	163853.66



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9047B	Water Conservation Administrator-B	Step A	39.9910	3199.28	6931.77	83181.28
		Step B	40.9782	3278.26	7102.89	85234.66
		Step C	41.9903	3359.22	7278.32	87339.82
		Step D	43.0272	3442.18	7458.05	89496.58
		Step E	44.0899	3527.19	7642.25	91706.99
		Step F	45.1787	3614.30	7830.97	93971.70
		Step G	46.2944	3703.55	8024.36	96292.35
		Step H	47.4377	3795.02	8222.53	98670.42
		Step I	48.6092	3888.74	8425.59	101107.14
		Step J	49.8097	3984.78	8633.68	103604.18
		Step K	51.0398	4083.18	8846.90	106162.78
		Step L	52.3002	4184.02	9065.37	108784.42
		Step M	53.5919	4287.35	9289.26	111471.15



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9085B	Water Distribution Superintendent-B	Step A	43.7794	3502.35	7588.43	91061.15
		Step B	45.5316	3642.53	7892.14	94705.73
		Step C	46.6561	3732.49	8087.06	97044.69
		Step D	47.8083	3824.66	8286.77	99441.26
		Step E	48.9889	3919.11	8491.41	101896.91
		Step F	50.1987	4015.90	8701.11	104413.30
		Step G	51.4384	4115.07	8915.99	106991.87
		Step H	52.7088	4216.70	9136.19	109634.30
		Step I	54.0106	4320.85	9361.84	112342.05
		Step J	55.3443	4427.54	9593.01	115116.14
		Step K	56.7111	4536.89	9829.92	117959.09
		Step L	58.1117	4648.94	10072.69	120872.34
		Step M	59.5468	4763.74	10321.45	123857.34



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT	Management					
Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9084B	Water Distribution Supervisor-B	Step A	36.2522	2900.18	6283.71	75404.58
		Step B	37.1470	2971.76	6438.81	77265.76
		Step C	38.0643	3045.14	6597.81	79173.74
		Step D	39.0044	3120.35	6760.76	81129.15
		Step E	39.9676	3197.41	6927.72	83132.61
		Step F	40.9547	3276.38	7098.81	85185.78
		Step G	41.9661	3357.29	7274.12	87289.49
		Step H	43.0025	3440.20	7453.77	89445.20
		Step I	44.0646	3525.17	7637.86	91654.37
		Step J	45.1528	3612.22	7826.49	93917.82
		Step K	46.2679	3701.43	8019.77	96237.23
		Step L	47.4105	3792.84	8217.82	98613.84
		Step M	48.5813	3886.50	8420.76	101049.10



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9101B	Water Quality Lab Supervisor-B	Step A	38.0634	3045.07	6597.66	79171.87
		Step B	39.0028	3120.22	6760.49	81125.82
		Step C	39.9660	3197.28	6927.44	83129.28
		Step D	40.9531	3276.25	7098.54	85182.45
		Step E	41.9644	3357.15	7273.83	87285.95
		Step F	43.0007	3440.06	7453.45	89441.46
		Step G	44.0626	3525.01	7637.52	91650.21
		Step H	45.1510	3612.08	7826.17	93914.08
		Step I	46.2659	3701.27	8019.42	96233.07
		Step J	47.4085	3792.68	8217.47	98609.68
		Step K	48.5794	3886.35	8420.43	101045.15
		Step L	49.7790	3982.32	8628.36	103540.32
		Step M	51.0084	4080.67	8841.46	106097.47



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9175B	Water Treatment Plant Chief Operator-B	Step A	43.5007	3480.06	7540.12	90481.46
		Step B	44.5746	3565.97	7726.26	92715.17
		Step C	45.6753	3654.02	7917.05	95004.62
		Step D	46.8033	3744.26	8112.57	97350.86
		Step E	47.9591	3836.73	8312.91	99754.93
		Step F	49.1436	3931.49	8518.22	102218.69
		Step G	50.3572	4028.58	8728.58	104742.98
		Step H	51.6008	4128.06	8944.14	107329.66
		Step I	52.8751	4230.01	9165.02	109980.21
		Step J	54.1809	4334.47	9391.36	112696.27
		Step K	55.5191	4441.53	9623.31	115479.73
		Step L	56.8901	4551.21	9860.95	118331.41
		Step M	58.2951	4663.61	10104.48	121253.81



City of Roseville

Salary Schedule: Management-B

Appendix:J
Effective Date:05/09/2020

MGMT Management

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9244B	Water Utility Manager-B	Step A	58.7839	4702.71	10189.21	122270.51
		Step B	60.2347	4818.78	10440.68	125288.18
		Step C	61.7223	4937.78	10698.53	128382.38
		Step D	63.2466	5059.73	10962.74	131552.93
		Step E	64.8085	5184.68	11233.47	134801.68
		Step F	66.4091	5312.73	11510.91	138130.93
		Step G	68.0491	5443.93	11795.18	141542.13
		Step H	69.7296	5578.37	12086.46	145037.57
		Step I	71.4517	5716.14	12384.96	148619.54
		Step J	73.2164	5857.31	12690.84	152290.11
		Step K	75.0244	6001.95	13004.23	156050.75
		Step L	76.8772	6150.18	13325.38	159904.58
		Step M	78.7758	6302.06	13654.47	163853.66

ORDINANCE NO. 6217

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING
ORDINANCE NO. 6182, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED
BY THE INTERNATIONAL UNION OF OPERATING ENGINEERS, STATIONARY
ENGINEERS, LOCAL 39, AS AMENDED BY APPENDIX "F" TO BE EFFECTIVE
MAY 9, 2020, AS AN URGENCY MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Title and Purpose.

Ordinance No. 6182, the Salary Ordinance for employees represented by Local 39, is hereby amended as shown on Appendix "F" for salary schedules A & B attached hereto.

RECLASSIFICATION

<u>Classification No.</u>	<u>Position Title</u>	<u>Salary Range</u>
1028A/1028B	Organics Truck Driver	3329

SECTION 2. Salary Schedule Effective Date.

This Ordinance shall be effective May 9, 2020 as an urgency measure.

SECTION 3. Urgency Ordinance.

This ordinance is hereby declared to be an urgency measure, immediately necessary for the public peace, health and safety and shall take effect May 9, 2020. A statement of urgency is as follows:

It is necessary to amend the Salary Ordinance to comply with recently approved changes for the orderly and necessary continuance of operations of the City.

SECTION 4. Posting.

The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three conspicuous locations in the City and she shall immediately after such posting enter in the Ordinance Book under the record of the ordinance a certificate under her hand stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20_, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

ATTEST:

MAYOR

City Clerk



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name					
		Step Name	Hourly	Bi-Weekly	Monthly	Annual
0035A	Accountant I-A	Step A	28.9971	2319.77	5026.16	60313.97
		Step B	30.4470	2435.76	5277.48	63329.76
		Step C	31.9693	2557.54	5541.35	66496.14
		Step D	33.5677	2685.42	5818.40	69820.82
		Step E	35.2462	2819.70	6109.34	73312.10
		Step F	37.0084	2960.67	6414.79	76977.47
		Step G	38.8589	3108.71	6735.54	80826.51
		Step H	40.8018	3264.14	7072.31	84867.74
0040A	Accountant II-A	Step A	31.8968	2551.74	5528.78	66345.34
		Step B	33.4917	2679.34	5805.23	69662.74
		Step C	35.1662	2813.30	6095.47	73145.70
		Step D	36.9246	2953.97	6400.26	76803.17
		Step E	38.7708	3101.66	6720.27	80643.26
		Step F	40.7093	3256.74	7056.28	84675.34
		Step G	42.7448	3419.58	7409.10	88909.18
		Step H	44.8820	3590.56	7779.55	93354.56



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1003A	Administrative Supervisor-A	Step A	28.2888	2263.10	4903.39	58840.70
		Step B	29.7033	2376.26	5148.57	61782.86
		Step C	31.1885	2495.08	5406.01	64872.08
		Step D	32.7479	2619.83	5676.30	68115.63
		Step E	34.3853	2750.82	5960.12	71521.42
		Step F	36.1046	2888.37	6258.13	75097.57
		Step G	37.9098	3032.78	6571.03	78852.38
		Step H	39.8052	3184.42	6899.57	82794.82
0084A	Administrative Technician-A	Step A	24.5991	1967.93	4263.84	51166.13
		Step B	25.8290	2066.32	4477.03	53724.32
		Step C	27.1205	2169.64	4700.89	56410.64
		Step D	28.4765	2278.12	4935.93	59231.12
		Step E	29.9003	2392.02	5182.72	62192.62
		Step F	31.3953	2511.62	5441.85	65302.22
		Step G	32.9651	2637.21	5713.95	68567.41
		Step H	34.6133	2769.06	5999.64	71995.66



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8302A	Aquatics Maintenance Technician-A	Step A	25.2065	2016.52	4369.13	52429.52
		Step B	26.4668	2117.34	4587.58	55050.94
		Step C	27.7901	2223.21	4816.95	57803.41
		Step D	29.1795	2334.36	5057.78	60693.36
		Step E	30.6386	2451.09	5310.69	63728.29
		Step F	32.1704	2573.63	5576.20	66914.43
		Step G	33.7790	2702.32	5855.03	70260.32
		Step H	35.4679	2837.43	6147.77	73773.23
8300A	Arborist Technician-A	Step A	25.2065	2016.52	4369.13	52429.52
		Step B	26.4668	2117.34	4587.58	55050.94
		Step C	27.7901	2223.21	4816.95	57803.41
		Step D	29.1795	2334.36	5057.78	60693.36
		Step E	30.6386	2451.09	5310.69	63728.29
		Step F	32.1704	2573.63	5576.20	66914.43
		Step G	33.7790	2702.32	5855.03	70260.32
		Step H	35.4679	2837.43	6147.77	73773.23



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
0376A	Assistant Child Care Site Coordinator-A	Step A	19.3664	1549.31	3356.84	40282.11
		Step B	20.3347	1626.78	3524.68	42296.18
		Step C	21.3514	1708.11	3700.91	44410.91
		Step D	22.4190	1793.52	3885.96	46631.52
		Step E	23.5400	1883.20	4080.27	48963.20
		Step F	24.7170	1977.36	4284.28	51411.36
		Step G	25.9528	2076.22	4498.49	53981.82
		Step H	27.2505	2180.04	4723.42	56681.04
0338A	Assistant Engineer-A	Step A	32.8716	2629.73	5697.74	68372.93
		Step B	34.5151	2761.21	5982.62	71791.41
		Step C	36.2409	2899.27	6281.76	75381.07
		Step D	38.0529	3044.23	6595.84	79150.03
		Step E	39.9556	3196.45	6925.64	83107.65
		Step F	41.9534	3356.27	7271.92	87263.07
		Step G	44.0510	3524.08	7635.51	91626.08
		Step H	46.2536	3700.29	8017.29	96207.49



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
0650A	Assistant Planner-A	Step A	27.5672	2205.38	4778.31	57339.78
		Step B	28.9455	2315.64	5017.22	60206.64
		Step C	30.3928	2431.42	5268.09	63217.02
		Step D	31.9124	2552.99	5531.48	66377.79
		Step E	33.5081	2680.65	5808.07	69696.85
		Step F	35.1834	2814.67	6098.46	73181.47
		Step G	36.9426	2955.41	6403.38	76840.61
		Step H	38.7897	3103.18	6723.55	80682.58
1005A	Associate Engineer (PE)-A	Step A	37.9611	3036.89	6579.92	78959.09
		Step B	39.8591	3188.73	6908.91	82906.93
		Step C	41.8521	3348.17	7254.36	87052.37
		Step D	43.9446	3515.57	7617.06	91404.77
		Step E	46.1419	3691.35	7997.93	95975.15
		Step F	48.4490	3875.92	8397.83	100773.92
		Step G	50.8714	4069.71	8817.71	105812.51
		Step H	53.4151	4273.21	9258.62	111103.41



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
0820A	Associate Engineer-A	Step A	36.1534	2892.27	6266.59	75199.07
		Step B	37.9611	3036.89	6579.92	78959.09
		Step C	39.8592	3188.74	6908.93	82907.14
		Step D	41.8521	3348.17	7254.36	87052.37
		Step E	43.9447	3515.58	7617.08	91404.98
		Step F	46.1420	3691.36	7997.95	95975.36
		Step G	48.4490	3875.92	8397.83	100773.92
		Step H	50.8715	4069.72	8817.73	105812.72
0900A	Associate Planner-A	Step A	31.7023	2536.18	5495.07	65940.78
		Step B	33.2873	2662.98	5769.80	69237.58
		Step C	34.9517	2796.14	6058.29	72699.54
		Step D	36.6992	2935.94	6361.19	76334.34
		Step E	38.5342	3082.74	6679.26	80151.14
		Step F	40.4610	3236.88	7013.24	84158.88
		Step G	42.4840	3398.72	7363.89	88366.72
		Step H	44.6082	3568.66	7732.09	92785.06



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1018A	Building Inspector I-A	Step A	27.0905	2167.24	4695.69	56348.24
		Step B	28.4450	2275.60	4930.47	59165.60
		Step C	29.8673	2389.38	5177.00	62123.98
		Step D	31.3607	2508.86	5435.85	65230.26
		Step E	32.9287	2634.30	5707.64	68491.70
		Step F	34.5751	2766.01	5993.02	71916.21
		Step G	36.3039	2904.31	6292.68	75512.11
		Step H	38.1191	3049.53	6607.31	79287.73
1019A	Building Inspector II-A	Step A	29.7996	2383.97	5165.26	61983.17
		Step B	31.2896	2503.17	5423.53	65082.37
		Step C	32.8540	2628.32	5694.69	68336.32
		Step D	34.4968	2759.74	5979.45	71753.34
		Step E	36.2216	2897.73	6278.41	75340.93
		Step F	38.0326	3042.61	6592.32	79107.81
		Step G	39.9343	3194.74	6921.95	83063.34
		Step H	41.9310	3354.48	7268.04	87216.48



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9425A	Building Maintenance Aide-A	Step A	18.6900	1495.20	3239.60	38875.20
		Step B	19.6245	1569.96	3401.58	40818.96
		Step C	20.6058	1648.46	3571.67	42860.06
		Step D	21.6361	1730.89	3750.26	45003.09
		Step E	22.7179	1817.43	3937.77	47253.23
		Step F	23.8538	1908.30	4134.66	49615.90
		Step G	25.0465	2003.72	4341.39	52096.72
		Step H	26.2988	2103.90	4558.46	54701.50
1030A	Building Maintenance Worker I-A	Step A	22.4280	1794.24	3887.52	46650.24
		Step B	23.5495	1883.96	4081.91	48982.96
		Step C	24.7270	1978.16	4286.01	51432.16
		Step D	25.9633	2077.06	4500.31	54003.66
		Step E	27.2615	2180.92	4725.33	56703.92
		Step F	28.6245	2289.96	4961.58	59538.96
		Step G	30.0558	2404.46	5209.67	62516.06
		Step H	31.5585	2524.68	5470.14	65641.68



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1032A	Building Maintenance Worker II-A	Step A	24.6709	1973.67	4276.29	51315.47
		Step B	25.9044	2072.35	4490.10	53881.15
		Step C	27.1997	2175.98	4714.61	56575.38
		Step D	28.5596	2284.77	4950.33	59403.97
		Step E	29.9876	2399.01	5197.85	62374.21
		Step F	31.4870	2518.96	5457.75	65492.96
		Step G	33.0613	2644.90	5730.63	68767.50
		Step H	34.7144	2777.15	6017.16	72205.95
1045A	Building Plans Examiner I-A	Step A	26.3841	2110.73	4573.24	54878.93
		Step B	27.7033	2216.26	4801.91	57622.86
		Step C	29.0884	2327.07	5041.99	60503.87
		Step D	30.5428	2443.42	5294.09	63529.02
		Step E	32.0700	2565.60	5558.80	66705.60
		Step F	33.6735	2693.88	5836.74	70040.88
		Step G	35.3571	2828.57	6128.56	73542.77
		Step H	37.1250	2970.00	6435.00	77220.00



City of Roseville

Salary Schedule: Stationary Engineers Local 39-A

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1047A	Building Plans Examiner II-A	Step A	29.0224	2321.79	5030.55	60366.59
		Step B	30.4736	2437.89	5282.09	63385.09
		Step C	31.9972	2559.78	5546.18	66554.18
		Step D	33.5971	2687.77	5823.50	69881.97
		Step E	35.2770	2822.16	6114.68	73376.16
		Step F	37.0408	2963.26	6420.41	77044.86
		Step G	38.8929	3111.43	6741.44	80897.23
		Step H	40.8376	3267.01	7078.52	84942.21
1361A	Business Systems Analyst I-A	Step A	28.4689	2277.51	4934.61	59215.31
		Step B	29.8922	2391.38	5181.31	62175.78
		Step C	31.3868	2510.94	5440.38	65284.54
		Step D	32.9562	2636.50	5712.41	68548.90
		Step E	34.6041	2768.33	5998.04	71976.53
		Step F	36.3343	2906.74	6297.95	75575.34
		Step G	38.1509	3052.07	6612.82	79353.87
		Step H	40.0585	3204.68	6943.47	83321.68



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1362A	Business Systems Analyst II-A	Step A	31.3159	2505.27	5428.09	65137.07
		Step B	32.8816	2630.53	5699.48	68393.73
		Step C	34.5256	2762.05	5984.44	71813.25
		Step D	36.2519	2900.15	6283.66	75403.95
		Step E	38.0645	3045.16	6597.85	79174.16
		Step F	39.9679	3197.43	6927.77	83133.23
		Step G	41.9661	3357.29	7274.12	87289.49
		Step H	44.0644	3525.15	7637.83	91653.95
1055A	Buyer I-A	Step A	23.7854	1902.83	4122.80	49473.63
		Step B	24.9747	1997.98	4328.95	51947.38
		Step C	26.2234	2097.87	4545.39	54544.67
		Step D	27.5346	2202.77	4772.66	57271.97
		Step E	28.9113	2312.90	5011.29	60135.50
		Step F	30.3569	2428.55	5261.86	63142.35
		Step G	31.8747	2549.98	5524.95	66299.38
		Step H	33.4685	2677.48	5801.21	69614.48



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Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1060A	Buyer II-A	Step A	26.1640	2093.12	4535.09	54421.12
		Step B	27.4721	2197.77	4761.83	57141.97
		Step C	28.8458	2307.66	4999.94	59999.26
		Step D	30.2880	2423.04	5249.92	62999.04
		Step E	31.8024	2544.19	5512.42	66148.99
		Step F	33.3926	2671.41	5788.05	69456.61
		Step G	35.0622	2804.98	6077.45	72929.38
		Step H	36.8153	2945.22	6381.32	76575.82
1225A	Child Care Site Coordinator-A	Step A	22.2713	1781.70	3860.36	46324.30
		Step B	23.3850	1870.80	4053.40	48640.80
		Step C	24.5542	1964.34	4256.06	51072.74
		Step D	25.7819	2062.55	4468.86	53626.35
		Step E	27.0710	2165.68	4692.31	56307.68
		Step F	28.4245	2273.96	4926.91	59122.96
		Step G	29.8458	2387.66	5173.27	62079.26
		Step H	31.3380	2507.04	5431.92	65183.04



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Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1226A	City Clerk Technician I-A	Step A	23.0365	1842.92	3992.99	47915.92
		Step B	24.1883	1935.06	4192.64	50311.66
		Step C	25.3977	2031.82	4402.27	52827.22
		Step D	26.6676	2133.41	4622.38	55468.61
		Step E	28.0010	2240.08	4853.51	58242.08
		Step F	29.4010	2352.08	5096.17	61154.08
		Step G	30.8712	2469.70	5351.01	64212.10
		Step H	32.4147	2593.18	5618.55	67422.58
1227A	City Clerk Technician II-A	Step A	25.3401	2027.21	4392.28	52707.41
		Step B	26.6072	2128.58	4611.91	55342.98
		Step C	27.9375	2235.00	4842.50	58110.00
		Step D	29.3344	2346.75	5084.63	61015.55
		Step E	30.8011	2464.09	5338.86	64066.29
		Step F	32.3412	2587.30	5605.81	67269.70
		Step G	33.9583	2716.66	5886.11	70633.26
		Step H	35.6562	2852.50	6180.41	74164.90



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1364A	Code Enforcement Inspector I-A	Step A	23.9712	1917.70	4155.01	49860.10
		Step B	25.1698	2013.58	4362.77	52353.18
		Step C	26.4283	2114.26	4580.91	54970.86
		Step D	27.7497	2219.98	4809.95	57719.38
		Step E	29.1372	2330.98	5050.45	60605.38
		Step F	30.5939	2447.51	5302.94	63635.31
		Step G	32.1236	2569.89	5568.09	66817.09
		Step H	33.7298	2698.38	5846.50	70157.98
1369A	Code Enforcement Inspector II-A	Step A	26.3683	2109.46	4570.51	54846.06
		Step B	27.6867	2214.94	4799.03	57588.34
		Step C	29.0711	2325.69	5038.99	60467.89
		Step D	30.5246	2441.97	5290.93	63491.17
		Step E	32.0508	2564.06	5555.47	66665.66
		Step F	33.6534	2692.27	5833.26	69999.07
		Step G	35.3360	2826.88	6124.91	73498.88
		Step H	37.1029	2968.23	6431.17	77174.03



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LO39 Stationary Engineers Local 39

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1401A	Community Relations Analyst-A	Step A	31.7526	2540.21	5503.78	66045.41
		Step B	33.3402	2667.22	5778.97	69347.62
		Step C	35.0072	2800.58	6067.91	72814.98
		Step D	36.7576	2940.61	6371.32	76455.81
		Step E	38.5954	3087.63	6689.87	80278.43
		Step F	40.5253	3242.02	7024.39	84292.62
		Step G	42.5515	3404.12	7375.59	88507.12
		Step H	44.6791	3574.33	7744.38	92932.53
1248A	Construction Inspection Supervisor-A	Step A	36.2164	2897.31	6277.51	75330.11
		Step B	38.0272	3042.18	6591.38	79096.58
		Step C	39.9286	3194.29	6920.96	83051.49
		Step D	41.9250	3354.00	7267.00	87204.00
		Step E	44.0212	3521.70	7630.34	91564.10
		Step F	46.2223	3697.78	8011.87	96142.38
		Step G	48.5334	3882.67	8412.46	100949.47
		Step H	50.9601	4076.81	8833.08	105997.01



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1432A	Construction Inspector I-A	Step A	26.0269	2082.15	4511.33	54135.95
		Step B	27.3282	2186.26	4736.89	56842.66
		Step C	28.6946	2295.57	4973.73	59684.77
		Step D	30.1293	2410.34	5222.41	62668.94
		Step E	31.6358	2530.86	5483.54	65802.46
		Step F	33.2176	2657.41	5757.72	69092.61
		Step G	34.8784	2790.27	6045.59	72547.07
		Step H	36.6224	2929.79	6347.88	76174.59
1434A	Construction Inspector II-A	Step A	28.6295	2290.36	4962.45	59549.36
		Step B	30.0610	2404.88	5210.57	62526.88
		Step C	31.5641	2525.13	5471.11	65653.33
		Step D	33.1423	2651.38	5744.67	68935.98
		Step E	34.7994	2783.95	6031.90	72382.75
		Step F	36.5394	2923.15	6333.50	76001.95
		Step G	38.3663	3069.30	6650.16	79801.90
		Step H	40.2846	3222.77	6982.66	83791.97



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1450A	Courier-A	Step A	16.0379	1283.03	2779.90	33358.83
		Step B	16.8399	1347.19	2918.92	35026.99
		Step C	17.6818	1414.54	3064.85	36778.14
		Step D	18.5659	1485.27	3218.09	38617.07
		Step E	19.4944	1559.55	3379.03	40548.35
		Step F	20.4689	1637.51	3547.94	42575.31
		Step G	21.4926	1719.41	3725.38	44704.61
		Step H	22.5669	1805.35	3911.60	46939.15
1485A	Custodian-A	Step A	17.7681	1421.45	3079.80	36957.65
		Step B	18.6565	1492.52	3233.79	38805.52
		Step C	19.5894	1567.15	3395.50	40745.95
		Step D	20.5687	1645.50	3565.24	42782.90
		Step E	21.5971	1727.77	3743.50	44921.97
		Step F	22.6769	1814.15	3930.66	47167.95
		Step G	23.8110	1904.88	4127.24	49526.88
		Step H	25.0015	2000.12	4333.59	52003.12



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1546A	Data Management Specialist I-A	Step A	29.8872	2390.98	5180.45	62165.38
		Step B	31.3816	2510.53	5439.48	65273.73
		Step C	32.9506	2636.05	5711.44	68537.25
		Step D	34.5981	2767.85	5997.00	71964.05
		Step E	36.3281	2906.25	6296.87	75562.45
		Step F	38.1445	3051.56	6611.71	79340.56
		Step G	40.0517	3204.14	6942.29	83307.54
		Step H	42.0543	3364.34	7289.41	87472.94
1548A	Data Management Specialist II-A	Step A	32.8759	2630.07	5698.49	68381.87
		Step B	34.5197	2761.58	5983.41	71800.98
		Step C	36.2458	2899.66	6282.61	75391.26
		Step D	38.0580	3044.64	6596.72	79160.64
		Step E	39.9609	3196.87	6926.56	83118.67
		Step F	41.9590	3356.72	7272.89	87274.72
		Step G	44.0569	3524.55	7636.53	91638.35
		Step H	46.2597	3700.78	8018.35	96220.18



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1551A	Database Analyst I-A	Step A	31.2666	2501.33	5419.54	65034.53
		Step B	32.8298	2626.38	5690.50	68285.98
		Step C	34.4715	2757.72	5975.06	71700.72
		Step D	36.1949	2895.59	6273.78	75285.39
		Step E	38.0047	3040.38	6587.48	79049.78
		Step F	39.9049	3192.39	6916.85	83002.19
		Step G	41.9002	3352.02	7262.70	87152.42
		Step H	43.9952	3519.62	7625.83	91510.02
1552A	Database Analyst II-A	Step A	34.3933	2751.46	5961.51	71538.06
		Step B	36.1129	2889.03	6259.57	75114.83
		Step C	37.9188	3033.50	6572.59	78871.10
		Step D	39.8146	3185.17	6901.20	82814.37
		Step E	41.8054	3344.43	7246.27	86955.23
		Step F	43.8957	3511.66	7608.59	91303.06
		Step G	46.0904	3687.23	7989.00	95868.03
		Step H	48.3947	3871.58	8388.41	100660.98



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1660A	Deputy City Clerk I-A	Step A	16.2783	1302.26	2821.57	33858.86
		Step B	17.0925	1367.40	2962.70	35552.40
		Step C	17.9470	1435.76	3110.81	37329.76
		Step D	18.8443	1507.54	3266.35	39196.14
		Step E	19.7866	1582.93	3429.68	41156.13
		Step F	20.7761	1662.09	3601.19	43214.29
		Step G	21.8148	1745.18	3781.23	45374.78
		Step H	22.9056	1832.45	3970.30	47643.65
1665A	Deputy City Clerk II-A	Step A	17.9062	1432.50	3103.74	37244.90
		Step B	18.8015	1504.12	3258.93	39107.12
		Step C	19.7415	1579.32	3421.86	41062.32
		Step D	20.7288	1658.30	3592.99	43115.90
		Step E	21.7651	1741.21	3772.62	45271.41
		Step F	22.8534	1828.27	3961.26	47535.07
		Step G	23.9961	1919.69	4159.32	49911.89
		Step H	25.1960	2015.68	4367.31	52407.68



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1282A	Development Services Analyst-A	Step A	31.4504	2516.03	5451.40	65416.83
		Step B	33.0230	2641.84	5723.99	68687.84
		Step C	34.6741	2773.93	6010.18	72122.13
		Step D	36.4078	2912.62	6310.69	75728.22
		Step E	38.2282	3058.26	6626.22	79514.66
		Step F	40.1397	3211.18	6957.55	83490.58
		Step G	42.1467	3371.74	7305.43	87665.14
		Step H	44.2540	3540.32	7670.69	92048.32
1670A	Development Technician I-A	Step A	22.4073	1792.58	3883.93	46607.18
		Step B	23.5278	1882.22	4078.15	48937.82
		Step C	24.7040	1976.32	4282.03	51384.32
		Step D	25.9394	2075.15	4496.16	53953.95
		Step E	27.2364	2178.91	4720.98	56651.71
		Step F	28.5983	2287.86	4957.04	59484.46
		Step G	30.0280	2402.24	5204.85	62458.24
		Step H	31.5295	2522.36	5465.11	65581.36



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1672A	Development Technician II-A	Step A	24.6480	1971.84	4272.32	51267.84
		Step B	25.8806	2070.45	4485.97	53831.65
		Step C	27.1745	2173.96	4710.25	56522.96
		Step D	28.5333	2282.66	4945.77	59349.26
		Step E	29.9599	2396.79	5193.05	62316.59
		Step F	31.4581	2516.65	5452.74	65432.85
		Step G	33.0309	2642.47	5725.36	68704.27
		Step H	34.6824	2774.59	6011.62	72139.39
9549A	ERP Business Analyst I-A	Step A	33.4888	2679.10	5804.73	69656.70
		Step B	35.1632	2813.06	6094.95	73139.46
		Step C	36.9214	2953.71	6399.71	76796.51
		Step D	38.7675	3101.40	6719.70	80636.40
		Step E	40.7058	3256.46	7055.67	84668.06
		Step F	42.7411	3419.29	7408.46	88901.49
		Step G	44.8782	3590.26	7778.89	93346.66
		Step H	47.1221	3769.77	8167.83	98013.97



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9550A	ERP Business Analyst II-A	Step A	36.8377	2947.02	6385.20	76622.42
		Step B	38.6796	3094.37	6704.46	80453.57
		Step C	40.6135	3249.08	7039.67	84476.08
		Step D	42.6442	3411.54	7391.66	88699.94
		Step E	44.7764	3582.11	7761.24	93134.91
		Step F	47.0152	3761.22	8149.30	97791.62
		Step G	49.3660	3949.28	8556.77	102681.28
		Step H	51.8343	4146.74	8984.61	107815.34
2466A	Energy Program Technician-A	Step A	24.5991	1967.93	4263.84	51166.13
		Step B	25.8290	2066.32	4477.03	53724.32
		Step C	27.1205	2169.64	4700.89	56410.64
		Step D	28.4765	2278.12	4935.93	59231.12
		Step E	29.9003	2392.02	5182.72	62192.62
		Step F	31.3953	2511.62	5441.85	65302.22
		Step G	32.9651	2637.21	5713.95	68567.41
		Step H	34.6133	2769.06	5999.64	71995.66



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1300A	Engineering Technician I-A	Step A	22.2711	1781.69	3860.32	46323.89
		Step B	23.3848	1870.78	4053.37	48640.38
		Step C	24.5540	1964.32	4256.03	51072.32
		Step D	25.7817	2062.54	4468.83	53625.94
		Step E	27.0708	2165.66	4692.27	56307.26
		Step F	28.4243	2273.94	4926.88	59122.54
		Step G	29.8456	2387.65	5173.24	62078.85
		Step H	31.3378	2507.02	5431.89	65182.62
1350A	Engineering Technician II-A	Step A	24.4983	1959.86	4246.37	50956.46
		Step B	25.7232	2057.86	4458.69	53504.26
		Step C	27.0093	2160.74	4681.61	56179.34
		Step D	28.3598	2268.78	4915.70	58988.38
		Step E	29.7778	2382.22	5161.49	61937.82
		Step F	31.2667	2501.34	5419.56	65034.74
		Step G	32.8301	2626.41	5690.55	68286.61
		Step H	34.4716	2757.73	5975.08	71700.93



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2542A	Environmental Compliance Specialist I-A	Step A	25.2853	2022.82	4382.79	52593.42
		Step B	26.5496	2123.97	4601.93	55223.17
		Step C	27.8771	2230.17	4832.03	57984.37
		Step D	29.2709	2341.67	5073.62	60883.47
		Step E	30.7345	2458.76	5327.31	63927.76
		Step F	32.2712	2581.70	5593.67	67124.10
		Step G	33.8848	2710.78	5873.37	70480.38
		Step H	35.5790	2846.32	6167.03	74004.32
2544A	Environmental Compliance Specialist II-A	Step A	27.8138	2225.10	4821.06	57852.70
		Step B	29.2046	2336.37	5062.13	60745.57
		Step C	30.6648	2453.18	5315.23	63782.78
		Step D	32.1980	2575.84	5580.99	66971.84
		Step E	33.8080	2704.64	5860.05	70320.64
		Step F	35.4983	2839.86	6153.04	73836.46
		Step G	37.2732	2981.86	6460.69	77528.26
		Step H	39.1369	3130.95	6783.73	81404.75



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
2560A	Equipment Serviceworker-A	Step A	20.5023	1640.18	3553.73	42644.78
		Step B	21.5274	1722.19	3731.42	44776.99
		Step C	22.6038	1808.30	3917.99	47015.90
		Step D	23.7339	1898.71	4113.88	49366.51
		Step E	24.9207	1993.66	4319.59	51835.06
		Step F	26.1667	2093.34	4535.56	54426.74
		Step G	27.4750	2198.00	4762.33	57148.00
		Step H	28.8488	2307.90	5000.46	60005.50
3334A	Finance Clerk I-A	Step A	17.0210	1361.68	2950.31	35403.68
		Step B	17.8720	1429.76	3097.81	37173.76
		Step C	18.7656	1501.25	3252.70	39032.45
		Step D	19.7039	1576.31	3415.34	40984.11
		Step E	20.6891	1655.13	3586.11	43033.33
		Step F	21.7236	1737.89	3765.42	45185.09
		Step G	22.8098	1824.78	3953.70	47444.38
		Step H	23.9503	1916.02	4151.39	49816.62



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3335A	Finance Clerk II-A	Step A	18.7231	1497.85	3245.34	38944.05
		Step B	19.6592	1572.74	3407.59	40891.14
		Step C	20.6422	1651.38	3577.98	42935.78
		Step D	21.6743	1733.94	3756.88	45082.54
		Step E	22.7580	1820.64	3944.72	47336.64
		Step F	23.8959	1911.67	4141.96	49703.47
		Step G	25.0907	2007.26	4349.05	52188.66
		Step H	26.3452	2107.62	4566.50	54798.02
3325A	Finance Technician I-A	Step A	19.5226	1561.81	3383.92	40607.01
		Step B	20.4987	1639.90	3553.11	42637.30
		Step C	21.5237	1721.90	3730.77	44769.30
		Step D	22.5999	1807.99	3917.32	47007.79
		Step E	23.7298	1898.38	4113.17	49357.98
		Step F	24.9163	1993.30	4318.83	51825.90
		Step G	26.1621	2092.97	4534.76	54417.17
		Step H	27.4703	2197.62	4761.52	57138.22



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
3326A	Finance Technician II-A	Step A	21.4748	1717.98	3722.30	44667.58
		Step B	22.5486	1803.89	3908.42	46901.09
		Step C	23.6761	1894.09	4103.86	49246.29
		Step D	24.8599	1988.79	4309.05	51708.59
		Step E	26.1029	2088.23	4524.50	54294.03
		Step F	27.4080	2192.64	4750.72	57008.64
		Step G	28.7784	2302.27	4988.26	59859.07
		Step H	30.2173	2417.38	5237.67	62851.98
3314A	Finance Utility Billing Analyst I-A	Step A	33.4888	2679.10	5804.73	69656.70
		Step B	35.1632	2813.06	6094.95	73139.46
		Step C	36.9214	2953.71	6399.71	76796.51
		Step D	38.7675	3101.40	6719.70	80636.40
		Step E	40.7058	3256.46	7055.67	84668.06
		Step F	42.7411	3419.29	7408.46	88901.49
		Step G	44.8782	3590.26	7778.89	93346.66
		Step H	47.1221	3769.77	8167.83	98013.97



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
3315A	Finance Utility Billing Analyst II-A	Step A	36.8377	2947.02	6385.20	76622.42
		Step B	38.6796	3094.37	6704.46	80453.57
		Step C	40.6135	3249.08	7039.67	84476.08
		Step D	42.6442	3411.54	7391.66	88699.94
		Step E	44.7764	3582.11	7761.24	93134.91
		Step F	47.0152	3761.22	8149.30	97791.62
		Step G	49.3660	3949.28	8556.77	102681.28
		Step H	51.8343	4146.74	8984.61	107815.34
3316A	Financial Analyst I-A	Step A	33.4888	2679.10	5804.73	69656.70
		Step B	35.1632	2813.06	6094.95	73139.46
		Step C	36.9214	2953.71	6399.71	76796.51
		Step D	38.7675	3101.40	6719.70	80636.40
		Step E	40.7058	3256.46	7055.67	84668.06
		Step F	42.7411	3419.29	7408.46	88901.49
		Step G	44.8782	3590.26	7778.89	93346.66
		Step H	47.1221	3769.77	8167.83	98013.97



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3318A	Financial Analyst II-A	Step A	36.8377	2947.02	6385.20	76622.42
		Step B	38.6796	3094.37	6704.46	80453.57
		Step C	40.6135	3249.08	7039.67	84476.08
		Step D	42.6442	3411.54	7391.66	88699.94
		Step E	44.7764	3582.11	7761.24	93134.91
		Step F	47.0152	3761.22	8149.30	97791.62
		Step G	49.3660	3949.28	8556.77	102681.28
		Step H	51.8343	4146.74	8984.61	107815.34
3319A	Fleet Management Technician-A	Step A	28.5289	2282.31	4945.01	59340.11
		Step B	29.9554	2396.43	5192.27	62307.23
		Step C	31.4532	2516.26	5451.89	65422.66
		Step D	33.0258	2642.06	5724.47	68693.66
		Step E	34.6771	2774.17	6010.70	72128.37
		Step F	36.4110	2912.88	6311.24	75734.88
		Step G	38.2315	3058.52	6626.79	79521.52
		Step H	40.1431	3211.45	6958.14	83497.65



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3410A	GIS Analyst I-A	Step A	27.0292	2162.34	4685.06	56220.74
		Step B	28.3807	2270.46	4919.32	59031.86
		Step C	29.7999	2383.99	5165.32	61983.79
		Step D	31.2898	2503.18	5423.57	65082.78
		Step E	32.8544	2628.35	5694.76	68337.15
		Step F	34.4969	2759.75	5979.46	71753.55
		Step G	36.2219	2897.75	6278.46	75341.55
		Step H	38.0328	3042.62	6592.35	79108.22
3412A	GIS Analyst II-A	Step A	29.9530	2396.24	5191.85	62302.24
		Step B	31.4506	2516.05	5451.44	65417.25
		Step C	33.0231	2641.85	5724.00	68688.05
		Step D	34.6741	2773.93	6010.18	72122.13
		Step E	36.4079	2912.63	6310.70	75728.43
		Step F	38.2284	3058.27	6626.26	79515.07
		Step G	40.1397	3211.18	6957.55	83490.58
		Step H	42.1467	3371.74	7305.43	87665.14



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2213A	GIS Technician I-A	Step A	21.5783	1726.26	3740.24	44882.86
		Step B	22.6571	1812.57	3927.23	47126.77
		Step C	23.7900	1903.20	4123.60	49483.20
		Step D	24.9795	1998.36	4329.78	51957.36
		Step E	26.2284	2098.27	4546.26	54555.07
		Step F	27.5400	2203.20	4773.60	57283.20
		Step G	28.9170	2313.36	5012.28	60147.36
		Step H	30.3628	2429.02	5262.89	63154.62
2214A	GIS Technician II-A	Step A	23.7361	1898.89	4114.26	49371.09
		Step B	24.9228	1993.82	4319.95	51839.42
		Step C	26.1690	2093.52	4535.96	54431.52
		Step D	27.4774	2198.19	4762.75	57152.99
		Step E	28.8514	2308.11	5000.91	60010.91
		Step F	30.2940	2423.52	5250.96	63011.52
		Step G	31.8087	2544.70	5513.51	66162.10
		Step H	33.3990	2671.92	5789.16	69469.92



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
3401A	Housing Analyst I-A	Step A	27.2019	2176.15	4715.00	56579.95
		Step B	28.5621	2284.97	4950.76	59409.17
		Step C	29.9901	2399.21	5198.28	62379.41
		Step D	31.4895	2519.16	5458.18	65498.16
		Step E	33.0640	2645.12	5731.09	68773.12
		Step F	34.7174	2777.39	6017.68	72212.19
		Step G	36.4532	2916.26	6318.55	75822.66
		Step H	38.2759	3062.07	6634.49	79613.87
3402A	Housing Analyst II-A	Step A	29.9221	2393.77	5186.50	62237.97
		Step B	31.4183	2513.46	5445.84	65350.06
		Step C	32.9893	2639.14	5718.15	68617.74
		Step D	34.6386	2771.09	6004.02	72048.29
		Step E	36.3709	2909.67	6304.29	75651.47
		Step F	38.1893	3055.14	6619.48	79433.74
		Step G	40.0990	3207.92	6950.49	83405.92
		Step H	42.1036	3368.29	7297.96	87575.49



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3591A	Housing Technician I-A	Step A	22.3628	1789.02	3876.22	46514.62
		Step B	23.4810	1878.48	4070.04	48840.48
		Step C	24.6550	1972.40	4273.53	51282.40
		Step D	25.8878	2071.02	4487.22	53846.62
		Step E	27.1821	2174.57	4711.56	56538.77
		Step F	28.5413	2283.30	4947.16	59365.90
		Step G	29.9683	2397.46	5194.51	62334.06
		Step H	31.4667	2517.34	5454.23	65450.74
3592A	Housing Technician II-A	Step A	24.5991	1967.93	4263.84	51166.13
		Step B	25.8290	2066.32	4477.03	53724.32
		Step C	27.1205	2169.64	4700.89	56410.64
		Step D	28.4765	2278.12	4935.93	59231.12
		Step E	29.9003	2392.02	5182.72	62192.62
		Step F	31.3953	2511.62	5441.85	65302.22
		Step G	32.9651	2637.21	5713.95	68567.41
		Step H	34.6133	2769.06	5999.64	71995.66



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3604A	Industrial Waste Specialist-A	Step A	28.6881	2295.05	4972.60	59671.25
		Step B	30.1224	2409.79	5221.22	62654.59
		Step C	31.6285	2530.28	5482.27	65787.28
		Step D	33.2100	2656.80	5756.40	69076.80
		Step E	34.8705	2789.64	6044.22	72530.64
		Step F	36.6140	2929.12	6346.43	76157.12
		Step G	38.4448	3075.58	6663.77	79965.18
		Step H	40.3670	3229.36	6996.95	83963.36
3610A	Industrial Waste Technician-A	Step A	24.9436	1995.49	4323.56	51882.69
		Step B	26.1908	2095.26	4539.74	54476.86
		Step C	27.5004	2200.03	4766.74	57200.83
		Step D	28.8754	2310.03	5005.07	60060.83
		Step E	30.3191	2425.53	5255.31	63063.73
		Step F	31.8352	2546.82	5518.10	66217.22
		Step G	33.4269	2674.15	5794.00	69527.95
		Step H	35.0983	2807.86	6083.71	73004.46



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
3793A	Information Technology Analyst I-A	Step A	29.8872	2390.98	5180.45	62165.38
		Step B	31.3816	2510.53	5439.48	65273.73
		Step C	32.9506	2636.05	5711.44	68537.25
		Step D	34.5981	2767.85	5997.00	71964.05
		Step E	36.3281	2906.25	6296.87	75562.45
		Step F	38.1445	3051.56	6611.71	79340.56
		Step G	40.0517	3204.14	6942.29	83307.54
		Step H	42.0543	3364.34	7289.41	87472.94
3794A	Information Technology Analyst II-A	Step A	32.8759	2630.07	5698.49	68381.87
		Step B	34.5197	2761.58	5983.41	71800.98
		Step C	36.2458	2899.66	6282.61	75391.26
		Step D	38.0580	3044.64	6596.72	79160.64
		Step E	39.9609	3196.87	6926.56	83118.67
		Step F	41.9590	3356.72	7272.89	87274.72
		Step G	44.0569	3524.55	7636.53	91638.35
		Step H	46.2597	3700.78	8018.35	96220.18



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3617A	Information Technology Technician I-A	Step A	22.1637	1773.10	3841.71	46100.50
		Step B	23.2720	1861.76	4033.81	48405.76
		Step C	24.4356	1954.85	4235.50	50826.05
		Step D	25.6573	2052.58	4447.27	53367.18
		Step E	26.9402	2155.22	4669.63	56035.62
		Step F	28.2872	2262.98	4903.11	58837.38
		Step G	29.7015	2376.12	5148.26	61779.12
		Step H	31.1867	2494.94	5405.69	64868.34
3618A	Information Technology Technician II-A	Step A	24.3801	1950.41	4225.88	50710.61
		Step B	25.5991	2047.93	4437.18	53246.13
		Step C	26.8790	2150.32	4659.03	55908.32
		Step D	28.2229	2257.83	4891.97	58703.63
		Step E	29.6341	2370.73	5136.58	61638.93
		Step F	31.1159	2489.27	5393.42	64721.07
		Step G	32.6716	2613.73	5663.08	67956.93
		Step H	34.3052	2744.42	5946.23	71354.82



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3730A	Interpretive Services Specialist I-A	Step A	22.2713	1781.70	3860.36	46324.30
		Step B	23.3850	1870.80	4053.40	48640.80
		Step C	24.5542	1964.34	4256.06	51072.74
		Step D	25.7819	2062.55	4468.86	53626.35
		Step E	27.0710	2165.68	4692.31	56307.68
		Step F	28.4245	2273.96	4926.91	59122.96
		Step G	29.8458	2387.66	5173.27	62079.26
		Step H	31.3380	2507.04	5431.92	65183.04
3732A	Interpretive Services Specialist II-A	Step A	24.4985	1959.88	4246.41	50956.88
		Step B	25.7234	2057.87	4458.72	53504.67
		Step C	27.0097	2160.78	4681.68	56180.18
		Step D	28.3601	2268.81	4915.75	58989.01
		Step E	29.7781	2382.25	5161.54	61938.45
		Step F	31.2670	2501.36	5419.61	65035.36
		Step G	32.8304	2626.43	5690.60	68287.23
		Step H	34.4719	2757.75	5975.13	71701.55



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5075A	Irrigation Technician-A	Step A	25.2065	2016.52	4369.13	52429.52
		Step B	26.4668	2117.34	4587.58	55050.94
		Step C	27.7901	2223.21	4816.95	57803.41
		Step D	29.1795	2334.36	5057.78	60693.36
		Step E	30.6386	2451.09	5310.69	63728.29
		Step F	32.1704	2573.63	5576.20	66914.43
		Step G	33.7790	2702.32	5855.03	70260.32
		Step H	35.4679	2837.43	6147.77	73773.23
3792A	Junior Engineer-A	Step A	29.8849	2390.79	5180.05	62160.59
		Step B	31.3792	2510.34	5439.06	65268.74
		Step C	32.9482	2635.86	5711.02	68532.26
		Step D	34.5956	2767.65	5996.57	71958.85
		Step E	36.3254	2906.03	6296.40	75556.83
		Step F	38.1416	3051.33	6611.21	79334.53
		Step G	40.0487	3203.90	6941.77	83301.30
		Step H	42.0512	3364.10	7288.87	87466.50



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4010A	Laboratory Technician I-A	Step A	20.6308	1650.46	3576.01	42912.06
		Step B	21.6624	1732.99	3754.82	45057.79
		Step C	22.7454	1819.63	3942.54	47310.43
		Step D	23.8827	1910.62	4139.67	49676.02
		Step E	25.0769	2006.15	4346.66	52159.95
		Step F	26.3307	2106.46	4563.99	54767.86
		Step G	27.6473	2211.78	4792.20	57506.38
		Step H	29.0297	2322.38	5031.81	60381.78
4020A	Laboratory Technician II-A	Step A	22.6761	1814.09	3930.52	47166.29
		Step B	23.8099	1904.79	4127.05	49524.59
		Step C	25.0005	2000.04	4333.42	52001.04
		Step D	26.2505	2100.04	4550.09	54601.04
		Step E	27.5630	2205.04	4777.59	57331.04
		Step F	28.9411	2315.29	5016.46	60197.49
		Step G	30.3882	2431.06	5267.29	63207.46
		Step H	31.9076	2552.61	5530.65	66367.81



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4151A	Librarian I-A	Step A	24.9189	1993.51	4319.28	51831.31
		Step B	26.1648	2093.18	4535.23	54422.78
		Step C	27.4730	2197.84	4761.99	57143.84
		Step D	28.8467	2307.74	5000.09	60001.14
		Step E	30.2891	2423.13	5250.11	63001.33
		Step F	31.8036	2544.29	5512.62	66151.49
		Step G	33.3937	2671.50	5788.24	69458.90
		Step H	35.0634	2805.07	6077.66	72931.87
4152A	Librarian II-A	Step A	27.4107	2192.86	4751.19	57014.26
		Step B	28.7813	2302.50	4988.76	59865.10
		Step C	30.2204	2417.63	5238.20	62858.43
		Step D	31.7314	2538.51	5500.11	66001.31
		Step E	33.3179	2665.43	5775.10	69301.23
		Step F	34.9839	2798.71	6063.88	72766.51
		Step G	36.7331	2938.65	6367.07	76404.85
		Step H	38.5697	3085.58	6685.41	80224.98



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4200A	Library Assistant I-A	Step A	16.7201	1337.61	2898.15	34777.81
		Step B	17.5563	1404.50	3043.09	36517.10
		Step C	18.4340	1474.72	3195.23	38342.72
		Step D	19.3558	1548.46	3355.01	40260.06
		Step E	20.3235	1625.88	3522.74	42272.88
		Step F	21.3397	1707.18	3698.88	44386.58
		Step G	22.4066	1792.53	3883.81	46605.73
		Step H	23.5270	1882.16	4078.01	48936.16
4210A	Library Assistant II-A	Step A	18.3922	1471.38	3187.98	38255.78
		Step B	19.3119	1544.95	3347.40	40168.75
		Step C	20.2774	1622.19	3514.75	42176.99
		Step D	21.2912	1703.30	3690.47	44285.70
		Step E	22.3559	1788.47	3875.02	46500.27
		Step F	23.4736	1877.89	4068.76	48825.09
		Step G	24.6473	1971.78	4272.20	51266.38
		Step H	25.8797	2070.38	4485.81	53829.78



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
4250A	Library Technician-A	Step A	22.4804	1798.43	3896.60	46759.23
		Step B	23.6045	1888.36	4091.45	49097.36
		Step C	24.7847	1982.78	4296.01	51552.18
		Step D	26.0239	2081.91	4510.81	54129.71
		Step E	27.3251	2186.01	4736.35	56836.21
		Step F	28.6913	2295.30	4973.16	59677.90
		Step G	30.1260	2410.08	5221.84	62662.08
		Step H	31.6323	2530.58	5482.93	65795.18
4516A	Marketing and Communication Analyst I-A	Step A	28.8660	2309.28	5003.44	60041.28
		Step B	30.3093	2424.74	5253.61	63043.34
		Step C	31.8248	2545.98	5516.30	66195.58
		Step D	33.4160	2673.28	5792.11	69505.28
		Step E	35.0867	2806.94	6081.69	72980.34
		Step F	36.8411	2947.29	6385.79	76629.49
		Step G	38.6831	3094.65	6705.07	80460.85
		Step H	40.6174	3249.39	7040.35	84484.19



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
4517A	Marketing and Communication Analyst II-A	Step A	31.7526	2540.21	5503.78	66045.41
		Step B	33.3402	2667.22	5778.97	69347.62
		Step C	35.0072	2800.58	6067.91	72814.98
		Step D	36.7576	2940.61	6371.32	76455.81
		Step E	38.5954	3087.63	6689.87	80278.43
		Step F	40.5253	3242.02	7024.39	84292.62
		Step G	42.5515	3404.12	7375.59	88507.12
		Step H	44.6791	3574.33	7744.38	92932.53
4500A	Mechanic I-A	Step A	23.5777	1886.22	4086.80	49041.62
		Step B	24.7565	1980.52	4291.13	51493.52
		Step C	25.9943	2079.54	4505.68	54068.14
		Step D	27.2940	2183.52	4730.96	56771.52
		Step E	28.6588	2292.70	4967.53	59610.30
		Step F	30.0917	2407.34	5215.89	62590.74
		Step G	31.5963	2527.70	5476.69	65720.30
		Step H	33.1761	2654.09	5750.52	69006.29



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
4501A	Mechanic II-A	Step A	25.9354	2074.83	4495.47	53945.63
		Step B	27.2321	2178.57	4720.23	56642.77
		Step C	28.5938	2287.50	4956.26	59475.10
		Step D	30.0234	2401.87	5204.06	62448.67
		Step E	31.5246	2521.97	5464.26	65571.17
		Step F	33.1009	2648.07	5737.49	68849.87
		Step G	34.7559	2780.47	6024.36	72292.27
		Step H	36.4937	2919.50	6325.57	75906.90
4540A	Meter Reader-A	Step A	19.8807	1590.46	3445.99	41351.86
		Step B	20.8748	1669.98	3618.30	43419.58
		Step C	21.9183	1753.46	3799.17	45590.06
		Step D	23.0143	1841.14	3989.15	47869.74
		Step E	24.1650	1933.20	4188.60	50263.20
		Step F	25.3734	2029.87	4398.06	52776.67
		Step G	26.6421	2131.37	4617.96	55415.57
		Step H	27.9743	2237.94	4848.88	58186.54



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
4534A	Meter Service Worker-A	Step A	20.8746	1669.97	3618.26	43419.17
		Step B	21.9180	1753.44	3799.12	45589.44
		Step C	23.0141	1841.13	3989.11	47869.33
		Step D	24.1648	1933.18	4188.57	50262.78
		Step E	25.3731	2029.85	4398.00	52776.05
		Step F	26.6416	2131.33	4617.88	55414.53
		Step G	27.9736	2237.89	4848.76	58185.09
		Step H	29.3724	2349.79	5091.22	61094.59
9555A	Natural Resources Specialist I-A	Step A	24.0584	1924.67	4170.12	50041.47
		Step B	25.2613	2020.90	4378.63	52543.50
		Step C	26.5243	2121.94	4597.55	55170.54
		Step D	27.8505	2228.04	4827.42	57929.04
		Step E	29.2430	2339.44	5068.79	60825.44
		Step F	30.7052	2456.42	5322.23	63866.82
		Step G	32.2405	2579.24	5588.35	67060.24
		Step H	33.8525	2708.20	5867.77	70413.20



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9545A	Natural Resources Specialist II-A	Step A	26.4642	2117.14	4587.13	55045.54
		Step B	27.7874	2222.99	4816.48	57797.79
		Step C	29.1767	2334.14	5057.29	60687.54
		Step D	30.6357	2450.86	5310.19	63722.26
		Step E	32.1674	2573.39	5575.68	66908.19
		Step F	33.7758	2702.06	5854.47	70253.66
		Step G	35.4645	2837.16	6147.18	73766.16
		Step H	37.2378	2979.02	6454.55	77454.62
4870A	Natural Resources Worker I-A	Step A	18.9768	1518.14	3289.31	39471.74
		Step B	19.9258	1594.06	3453.81	41445.66
		Step C	20.9221	1673.77	3626.50	43517.97
		Step D	21.9682	1757.46	3807.82	45693.86
		Step E	23.0665	1845.32	3998.19	47978.32
		Step F	24.2200	1937.60	4198.13	50377.60
		Step G	25.4310	2034.48	4408.04	52896.48
		Step H	26.7024	2136.19	4628.42	55540.99



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
4872A	Natural Resources Worker II-A	Step A	20.8748	1669.98	3618.30	43419.58
		Step B	21.9185	1753.48	3799.21	45590.48
		Step C	23.0144	1841.15	3989.16	47869.95
		Step D	24.1651	1933.21	4188.62	50263.41
		Step E	25.3735	2029.88	4398.07	52776.88
		Step F	26.6421	2131.37	4617.96	55415.57
		Step G	27.9743	2237.94	4848.88	58186.54
		Step H	29.3729	2349.83	5091.30	61095.63
4956A	Office Assistant I-A	Step A	16.0379	1283.03	2779.90	33358.83
		Step B	16.8399	1347.19	2918.92	35026.99
		Step C	17.6818	1414.54	3064.85	36778.14
		Step D	18.5659	1485.27	3218.09	38617.07
		Step E	19.4944	1559.55	3379.03	40548.35
		Step F	20.4689	1637.51	3547.94	42575.31
		Step G	21.4926	1719.41	3725.38	44704.61
		Step H	22.5669	1805.35	3911.60	46939.15



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
4957A	Office Assistant II-A	Step A	17.6416	1411.33	3057.88	36694.53
		Step B	18.5238	1481.90	3210.79	38529.50
		Step C	19.4500	1556.00	3371.33	40456.00
		Step D	20.4225	1633.80	3539.90	42478.80
		Step E	21.4434	1715.47	3716.86	44602.27
		Step F	22.5157	1801.26	3902.72	46832.66
		Step G	23.6416	1891.33	4097.88	49174.53
		Step H	24.8236	1985.89	4302.76	51633.09
1028A	Organics Truck Driver-A	Step A	23.6603	1892.82	4101.12	49213.42
		Step B	24.8433	1987.46	4306.17	51674.06
		Step C	26.0855	2086.84	4521.49	54257.84
		Step D	27.3898	2191.18	4747.57	56970.78
		Step E	28.7593	2300.74	4984.95	59819.34
		Step F	30.1972	2415.78	5234.18	62810.18
		Step G	31.7071	2536.57	5495.90	65950.77
		Step H	33.2925	2663.40	5770.70	69248.40



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
5070A	Parks Maintenance Worker I-A	Step A	18.0732	1445.86	3132.69	37592.26
		Step B	18.9771	1518.17	3289.36	39472.37
		Step C	19.9258	1594.06	3453.81	41445.66
		Step D	20.9222	1673.78	3626.51	43518.18
		Step E	21.9681	1757.45	3807.80	45693.65
		Step F	23.0664	1845.31	3998.18	47978.11
		Step G	24.2200	1937.60	4198.13	50377.60
		Step H	25.4310	2034.48	4408.04	52896.48
5080A	Parks Maintenance Worker II-A	Step A	19.8807	1590.46	3445.99	41351.86
		Step B	20.8748	1669.98	3618.30	43419.58
		Step C	21.9183	1753.46	3799.17	45590.06
		Step D	23.0143	1841.14	3989.15	47869.74
		Step E	24.1650	1933.20	4188.60	50263.20
		Step F	25.3737	2029.90	4398.11	52777.30
		Step G	26.6421	2131.37	4617.96	55415.57
		Step H	27.9743	2237.94	4848.88	58186.54



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1278A	Parks Project Technician-A	Step A	25.2065	2016.52	4369.13	52429.52
		Step B	26.4668	2117.34	4587.58	55050.94
		Step C	27.7902	2223.22	4816.97	57803.62
		Step D	29.1797	2334.38	5057.81	60693.78
		Step E	30.6387	2451.10	5310.71	63728.50
		Step F	32.1706	2573.65	5576.24	66914.85
		Step G	33.7792	2702.34	5855.06	70260.74
		Step H	35.4681	2837.45	6147.80	73773.65
9556A	Parks Recreation and Libraries Coordinator I-A	Step A	22.2713	1781.70	3860.36	46324.30
		Step B	23.3850	1870.80	4053.40	48640.80
		Step C	24.5542	1964.34	4256.06	51072.74
		Step D	25.7819	2062.55	4468.86	53626.35
		Step E	27.0710	2165.68	4692.31	56307.68
		Step F	28.4246	2273.97	4926.93	59123.17
		Step G	29.8458	2387.66	5173.27	62079.26
		Step H	31.3380	2507.04	5431.92	65183.04



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9543A	Parks Recreation and Libraries Coordinator II-A	Step A	24.4985	1959.88	4246.41	50956.88
		Step B	25.7234	2057.87	4458.72	53504.67
		Step C	27.0096	2160.77	4681.66	56179.97
		Step D	28.3601	2268.81	4915.75	58989.01
		Step E	29.7781	2382.25	5161.54	61938.45
		Step F	31.2670	2501.36	5419.61	65035.36
		Step G	32.8304	2626.43	5690.60	68287.23
		Step H	34.4719	2757.75	5975.13	71701.55
5045A	Parks Recreation and Libraries Technician-A	Step A	24.0929	1927.43	4176.10	50113.23
		Step B	25.2975	2023.80	4384.90	52618.80
		Step C	26.5624	2124.99	4604.15	55249.79
		Step D	27.8905	2231.24	4834.35	58012.24
		Step E	29.2851	2342.81	5076.08	60913.01
		Step F	30.7493	2459.94	5329.88	63958.54
		Step G	32.2867	2582.94	5596.36	67156.34
		Step H	33.9011	2712.09	5876.19	70514.29



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9548A	Passport/Livescan Agent-A	Step A	16.0379	1283.03	2779.90	33358.83
		Step B	16.8397	1347.18	2918.88	35026.58
		Step C	17.6818	1414.54	3064.85	36778.14
		Step D	18.5659	1485.27	3218.09	38617.07
		Step E	19.4942	1559.54	3378.99	40547.94
		Step F	20.4689	1637.51	3547.94	42575.31
		Step G	21.4923	1719.38	3725.33	44703.98
		Step H	22.5669	1805.35	3911.60	46939.15
5277A	Permit Technician I-A	Step A	22.4073	1792.58	3883.93	46607.18
		Step B	23.5278	1882.22	4078.15	48937.82
		Step C	24.7040	1976.32	4282.03	51384.32
		Step D	25.9394	2075.15	4496.16	53953.95
		Step E	27.2364	2178.91	4720.98	56651.71
		Step F	28.5983	2287.86	4957.04	59484.46
		Step G	30.0280	2402.24	5204.85	62458.24
		Step H	31.5295	2522.36	5465.11	65581.36



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5279A	Permit Technician II-A	Step A	24.6480	1971.84	4272.32	51267.84
		Step B	25.8806	2070.45	4485.97	53831.65
		Step C	27.1745	2173.96	4710.25	56522.96
		Step D	28.5333	2282.66	4945.77	59349.26
		Step E	29.9599	2396.79	5193.05	62316.59
		Step F	31.4581	2516.65	5452.74	65432.85
		Step G	33.0309	2642.47	5725.36	68704.27
		Step H	34.6824	2774.59	6011.62	72139.39
5560A	Project Coordinator-A	Step A	31.4925	2519.40	5458.70	65504.40
		Step B	33.0671	2645.37	5731.63	68779.57
		Step C	34.7204	2777.63	6018.20	72218.43
		Step D	36.4565	2916.52	6319.13	75829.52
		Step E	38.2793	3062.34	6635.08	79620.94
		Step F	40.1933	3215.46	6966.84	83602.06
		Step G	42.2030	3376.24	7315.19	87782.24
		Step H	44.3131	3545.05	7680.94	92171.25



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
8304A	Recreation Leader-A	Step A	17.6416	1411.33	3057.88	36694.53
		Step B	18.5238	1481.90	3210.79	38529.50
		Step C	19.4500	1556.00	3371.33	40456.00
		Step D	20.4225	1633.80	3539.90	42478.80
		Step E	21.4434	1715.47	3716.86	44602.27
		Step F	22.5157	1801.26	3902.72	46832.66
		Step G	23.6416	1891.33	4097.88	49174.53
		Step H	24.8236	1985.89	4302.76	51633.09
6150A	Recycling and Organics Coordinator-A	Step A	29.2046	2336.37	5062.13	60745.57
		Step B	30.6648	2453.18	5315.23	63782.78
		Step C	32.1980	2575.84	5580.99	66971.84
		Step D	33.8080	2704.64	5860.05	70320.64
		Step E	35.4983	2839.86	6153.04	73836.46
		Step F	37.2732	2981.86	6460.69	77528.26
		Step G	39.1369	3130.95	6783.73	81404.75
		Step H	41.0937	3287.50	7122.91	85474.90



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
6225A	Refuse Maintenance Worker I-A	Step A	17.6939	1415.51	3066.94	36803.31
		Step B	18.5785	1486.28	3220.27	38643.28
		Step C	19.5076	1560.61	3381.32	40575.81
		Step D	20.4829	1638.63	3550.37	42604.43
		Step E	21.5071	1720.57	3727.90	44734.77
		Step F	22.5823	1806.58	3914.27	46971.18
		Step G	23.7115	1896.92	4109.99	49319.92
		Step H	24.8971	1991.77	4315.50	51785.97
6226A	Refuse Maintenance Worker II-A	Step A	20.8746	1669.97	3618.26	43419.17
		Step B	21.9180	1753.44	3799.12	45589.44
		Step C	23.0141	1841.13	3989.11	47869.33
		Step D	24.1648	1933.18	4188.57	50262.78
		Step E	25.3731	2029.85	4398.00	52776.05
		Step F	26.6416	2131.33	4617.88	55414.53
		Step G	27.9736	2237.89	4848.76	58185.09
		Step H	29.3724	2349.79	5091.22	61094.59



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
6302A	Refuse Truck Driver I-A	Step A	20.5638	1645.10	3564.39	42772.70
		Step B	21.5919	1727.35	3742.60	44911.15
		Step C	22.6716	1813.73	3929.74	47156.93
		Step D	23.8051	1904.41	4126.22	49514.61
		Step E	24.9954	1999.63	4332.54	51990.43
		Step F	26.2452	2099.62	4549.17	54590.02
		Step G	27.5574	2204.59	4776.62	57319.39
		Step H	28.9353	2314.82	5015.45	60185.42
6304A	Refuse Truck Driver II-A	Step A	22.5336	1802.69	3905.82	46869.89
		Step B	23.6603	1892.82	4101.12	49213.42
		Step C	24.8433	1987.46	4306.17	51674.06
		Step D	26.0855	2086.84	4521.49	54257.84
		Step E	27.3898	2191.18	4747.57	56970.78
		Step F	28.7593	2300.74	4984.95	59819.34
		Step G	30.1973	2415.78	5234.20	62810.38
		Step H	31.7071	2536.57	5495.90	65950.77



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7117A	Senior Building Inspector-A	Step A	32.7795	2622.36	5681.78	68181.36
		Step B	34.4185	2753.48	5965.87	71590.48
		Step C	36.1395	2891.16	6264.18	75170.16
		Step D	37.9464	3035.71	6577.38	78928.51
		Step E	39.8437	3187.50	6906.24	82874.90
		Step F	41.8359	3346.87	7251.56	87018.67
		Step G	43.9277	3514.22	7614.13	91369.62
		Step H	46.1240	3689.92	7994.83	95937.92
7119A	Senior Building Maintenance Worker-A	Step A	27.1380	2171.04	4703.92	56447.04
		Step B	28.4949	2279.59	4939.12	59269.39
		Step C	29.9196	2393.57	5186.06	62232.77
		Step D	31.4156	2513.25	5445.37	65344.45
		Step E	32.9863	2638.90	5717.63	68611.50
		Step F	34.6357	2770.86	6003.52	72042.26
		Step G	36.3674	2909.39	6303.68	75644.19
		Step H	38.1859	3054.87	6618.89	79426.67



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7195A	Senior Building Plans Examiner-A	Step A	31.9247	2553.98	5533.61	66403.38
		Step B	33.5209	2681.67	5810.29	69723.47
		Step C	35.1970	2815.76	6100.81	73209.76
		Step D	36.9569	2956.55	6405.86	76870.35
		Step E	38.8047	3104.38	6726.15	80713.78
		Step F	40.7450	3259.60	7062.47	84749.60
		Step G	42.7822	3422.58	7415.58	88986.98
		Step H	44.9213	3593.70	7786.36	93436.30
7139A	Senior Buyer-A	Step A	28.7804	2302.43	4988.60	59863.23
		Step B	30.2194	2417.55	5238.03	62856.35
		Step C	31.7303	2538.42	5499.92	65999.02
		Step D	33.3169	2665.35	5774.93	69299.15
		Step E	34.9827	2798.62	6063.67	72764.02
		Step F	36.7319	2938.55	6366.86	76402.35
		Step G	38.5685	3085.48	6685.21	80222.48
		Step H	40.4969	3239.75	7019.46	84233.55



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7134A	Senior Code Enforcement Inspector-A	Step A	30.7018	2456.14	5321.65	63859.74
		Step B	32.2369	2578.95	5587.73	67052.75
		Step C	33.8489	2707.91	5867.14	70405.71
		Step D	35.5412	2843.30	6160.47	73925.70
		Step E	37.3183	2985.46	6468.51	77622.06
		Step F	39.1843	3134.74	6791.95	81503.34
		Step G	41.1435	3291.48	7131.54	85578.48
		Step H	43.2006	3456.05	7488.10	89857.25
7121A	Senior Construction Inspector-A	Step A	31.4925	2519.40	5458.70	65504.40
		Step B	33.0671	2645.37	5731.63	68779.57
		Step C	34.7204	2777.63	6018.20	72218.43
		Step D	36.4565	2916.52	6319.13	75829.52
		Step E	38.2793	3062.34	6635.08	79620.94
		Step F	40.1933	3215.46	6966.84	83602.06
		Step G	42.2030	3376.24	7315.19	87782.24
		Step H	44.3131	3545.05	7680.94	92171.25



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Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7144A	Senior Custodian-A	Step A	19.5449	1563.59	3387.78	40653.39
		Step B	20.5221	1641.77	3557.16	42685.97
		Step C	21.5481	1723.85	3735.00	44820.05
		Step D	22.6255	1810.04	3921.75	47061.04
		Step E	23.7567	1900.54	4117.83	49413.94
		Step F	24.9447	1995.58	4323.75	51884.98
		Step G	26.1919	2095.35	4539.93	54479.15
		Step H	27.5015	2200.12	4766.93	57203.12
7162A	Senior Engineering Technician-A	Step A	26.9481	2155.85	4671.00	56052.05
		Step B	28.2956	2263.65	4904.57	58854.85
		Step C	29.7103	2376.82	5149.79	61797.42
		Step D	31.1958	2495.66	5407.27	64887.26
		Step E	32.7556	2620.45	5677.64	68131.65
		Step F	34.3934	2751.47	5961.52	71538.27
		Step G	36.1131	2889.05	6259.60	75115.25
		Step H	37.9188	3033.50	6572.59	78871.10



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Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7146A	Senior Finance Clerk-A	Step A	20.5954	1647.63	3569.87	42838.43
		Step B	21.6252	1730.02	3748.37	44980.42
		Step C	22.7064	1816.51	3935.78	47229.31
		Step D	23.8417	1907.34	4132.56	49590.74
		Step E	25.0338	2002.70	4339.19	52070.30
		Step F	26.2856	2102.85	4556.17	54674.05
		Step G	27.5998	2207.98	4783.97	57407.58
		Step H	28.9798	2318.38	5023.17	60277.98
7147A	Senior Finance Technician-A	Step A	23.6223	1889.78	4094.53	49134.38
		Step B	24.8035	1984.28	4299.27	51591.28
		Step C	26.0436	2083.49	4514.22	54170.69
		Step D	27.3458	2187.66	4739.94	56879.26
		Step E	28.7132	2297.06	4976.95	59723.46
		Step F	30.1488	2411.90	5225.79	62709.50
		Step G	31.6563	2532.50	5487.09	65845.10
		Step H	33.2391	2659.13	5761.44	69137.33



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7148A	Senior Housing Technician-A	Step A	27.0590	2164.72	4690.23	56282.72
		Step B	28.4119	2272.95	4924.73	59096.75
		Step C	29.8325	2386.60	5170.97	62051.60
		Step D	31.3242	2505.94	5429.53	65154.34
		Step E	32.8904	2631.23	5701.00	68412.03
		Step F	34.5349	2762.79	5986.05	71832.59
		Step G	36.2617	2900.94	6285.36	75424.34
		Step H	38.0747	3045.98	6599.61	79195.38
7149A	Senior Information Technology Technician-A	Step A	26.8180	2145.44	4648.45	55781.44
		Step B	28.1589	2252.71	4880.88	58570.51
		Step C	29.5669	2365.35	5124.93	61499.15
		Step D	31.0452	2483.62	5381.17	64574.02
		Step E	32.5975	2607.80	5650.23	67802.80
		Step F	34.2274	2738.19	5932.75	71192.99
		Step G	35.9387	2875.10	6229.37	74752.50
		Step H	37.7357	3018.86	6540.85	78490.26



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
3733A	Senior Interpretive Services Specialist-A	Step A	26.9492	2155.94	4671.19	56054.34
		Step B	28.2966	2263.73	4904.74	58856.93
		Step C	29.7114	2376.91	5149.98	61799.71
		Step D	31.1971	2495.77	5407.50	64889.97
		Step E	32.7569	2620.55	5677.86	68134.35
		Step F	34.3948	2751.58	5961.77	71541.18
		Step G	36.1145	2889.16	6259.85	75118.16
		Step H	37.9202	3033.62	6572.83	78874.02
7189A	Senior Mechanic-A	Step A	28.5289	2282.31	4945.01	59340.11
		Step B	29.9554	2396.43	5192.27	62307.23
		Step C	31.4532	2516.26	5451.89	65422.66
		Step D	33.0258	2642.06	5724.47	68693.66
		Step E	34.6771	2774.17	6010.70	72128.37
		Step F	36.4110	2912.88	6311.24	75734.88
		Step G	38.2315	3058.52	6626.79	79521.52
		Step H	40.1431	3211.45	6958.14	83497.65



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7200A	Senior Meter Service Worker-A	Step A	22.9620	1836.96	3980.08	47760.96
		Step B	24.1101	1928.81	4179.08	50149.01
		Step C	25.3153	2025.22	4387.99	52655.82
		Step D	26.5815	2126.52	4607.46	55289.52
		Step E	27.9104	2232.83	4837.80	58053.63
		Step F	29.3060	2344.48	5079.71	60956.48
		Step G	30.7712	2461.70	5333.67	64004.10
		Step H	32.3098	2584.78	5600.37	67204.38
7154A	Senior Natural Resources Worker-A	Step A	23.0144	1841.15	3989.16	47869.95
		Step B	24.1652	1933.22	4188.63	50263.62
		Step C	25.3736	2029.89	4398.09	52777.09
		Step D	26.6422	2131.38	4617.98	55415.78
		Step E	27.9744	2237.95	4848.90	58186.75
		Step F	29.3731	2349.85	5091.34	61096.05
		Step G	30.8417	2467.34	5345.89	64150.74
		Step H	32.3837	2590.70	5613.17	67358.10



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7192A	Senior Parks Maintenance Worker-A	Step A	21.9184	1753.47	3799.19	45590.27
		Step B	23.0144	1841.15	3989.16	47869.95
		Step C	24.1652	1933.22	4188.63	50263.62
		Step D	25.3738	2029.90	4398.13	52777.50
		Step E	26.6422	2131.38	4617.98	55415.78
		Step F	27.9744	2237.95	4848.90	58186.75
		Step G	29.3729	2349.83	5091.30	61095.63
		Step H	30.8418	2467.34	5345.91	64150.94
1502A	Senior Permits Technician-A	Step A	27.1129	2169.03	4699.57	56394.83
		Step B	28.4686	2277.49	4934.56	59214.69
		Step C	29.8920	2391.36	5181.28	62175.36
		Step D	31.3866	2510.93	5440.34	65284.13
		Step E	32.9559	2636.47	5712.36	68548.27
		Step F	34.6037	2768.30	5997.97	71975.70
		Step G	36.3339	2906.71	6297.88	75574.51
		Step H	38.1506	3052.05	6612.77	79353.25



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7129A	Senior Refuse Truck Driver-A	Step A	24.7807	1982.46	4295.32	51543.86
		Step B	26.0197	2081.58	4510.08	54120.98
		Step C	27.3208	2185.66	4735.61	56827.26
		Step D	28.6868	2294.94	4972.38	59668.54
		Step E	30.1212	2409.70	5221.01	62652.10
		Step F	31.6272	2530.18	5482.05	65784.58
		Step G	33.2086	2656.69	5756.16	69073.89
		Step H	34.8690	2789.52	6043.96	72527.52
1279A	Senior Solid Waste Billing Technician-A	Step A	24.6961	1975.69	4280.66	51367.89
		Step B	25.9309	2074.47	4494.69	53936.27
		Step C	27.2274	2178.19	4719.42	56632.99
		Step D	28.5888	2287.10	4955.39	59464.70
		Step E	30.0182	2401.46	5203.15	62437.86
		Step F	31.5192	2521.54	5463.33	65559.94
		Step G	33.0952	2647.62	5736.50	68838.02
		Step H	34.7499	2779.99	6023.32	72279.79



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7187A	Senior Street Maintenance Worker-A	Step A	25.5534	2044.27	4429.26	53151.07
		Step B	26.8311	2146.49	4650.72	55808.69
		Step C	28.1727	2253.82	4883.27	58599.22
		Step D	29.5813	2366.50	5127.43	61529.10
		Step E	31.0604	2484.83	5383.80	64605.63
		Step F	32.6134	2609.07	5652.99	67835.87
		Step G	34.2440	2739.52	5935.63	71227.52
		Step H	35.9563	2876.50	6232.43	74789.10
7201A	Senior Tree Trimmer-A	Step A	22.9622	1836.98	3980.11	47761.38
		Step B	24.1103	1928.82	4179.12	50149.42
		Step C	25.3157	2025.26	4388.05	52656.66
		Step D	26.5817	2126.54	4607.49	55289.94
		Step E	27.9107	2232.86	4837.85	58054.26
		Step F	29.3063	2344.50	5079.76	60957.10
		Step G	30.7714	2461.71	5333.71	64004.51
		Step H	32.3102	2584.82	5600.43	67205.22



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7203A	Senior Warehouse Worker-A	Step A	23.1108	1848.86	4005.87	48070.46
		Step B	24.2664	1941.31	4206.18	50474.11
		Step C	25.4797	2038.38	4416.48	52997.78
		Step D	26.7537	2140.30	4637.31	55647.70
		Step E	28.0914	2247.31	4869.18	58430.11
		Step F	29.4959	2359.67	5112.62	61351.47
		Step G	30.9707	2477.66	5368.25	64419.06
		Step H	32.5193	2601.54	5636.68	67640.14
7324A	Solid Waste Billing Technician-A	Step A	21.4748	1717.98	3722.30	44667.58
		Step B	22.5486	1803.89	3908.42	46901.09
		Step C	23.6761	1894.09	4103.86	49246.29
		Step D	24.8599	1988.79	4309.05	51708.59
		Step E	26.1029	2088.23	4524.50	54294.03
		Step F	27.4080	2192.64	4750.72	57008.64
		Step G	28.7784	2302.27	4988.26	59859.07
		Step H	30.2173	2417.38	5237.67	62851.98



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7525A	Street Maintenance Worker I-A	Step A	21.1185	1689.48	3660.54	43926.48
		Step B	22.1744	1773.95	3843.56	46122.75
		Step C	23.2832	1862.66	4035.75	48429.06
		Step D	24.4473	1955.78	4237.53	50850.38
		Step E	25.6697	2053.58	4449.41	53392.98
		Step F	26.9532	2156.26	4671.89	56062.66
		Step G	28.3009	2264.07	4905.49	58865.87
		Step H	29.7159	2377.27	5150.76	61809.07
7530A	Street Maintenance Worker II-A	Step A	23.2303	1858.42	4026.59	48319.02
		Step B	24.3919	1951.35	4227.93	50735.15
		Step C	25.6115	2048.92	4439.33	53271.92
		Step D	26.8920	2151.36	4661.28	55935.36
		Step E	28.2367	2258.94	4894.36	58732.34
		Step F	29.6485	2371.88	5139.07	61668.88
		Step G	31.1310	2490.48	5396.04	64752.48
		Step H	32.6875	2615.00	5665.83	67990.00



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7540A	Street Sweeper Operator-A	Step A	24.3919	1951.35	4227.93	50735.15
		Step B	25.6115	2048.92	4439.33	53271.92
		Step C	26.8920	2151.36	4661.28	55935.36
		Step D	28.2367	2258.94	4894.36	58732.34
		Step E	29.6485	2371.88	5139.07	61668.88
		Step F	31.1310	2490.48	5396.04	64752.48
		Step G	32.6875	2615.00	5665.83	67990.00
		Step H	34.3218	2745.74	5949.11	71389.34
1503A	Tree Trimmer I-A	Step A	18.9768	1518.14	3289.31	39471.74
		Step B	19.9257	1594.06	3453.79	41445.46
		Step C	20.9220	1673.76	3626.48	43517.76
		Step D	21.9681	1757.45	3807.80	45693.65
		Step E	23.0664	1845.31	3998.18	47978.11
		Step F	24.2199	1937.59	4198.12	50377.39
		Step G	25.4308	2034.46	4408.01	52896.06
		Step H	26.7023	2136.18	4628.40	55540.78



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1504A	Tree Trimmer II-A	Step A	20.8747	1669.98	3618.28	43419.38
		Step B	21.9182	1753.46	3799.15	45589.86
		Step C	23.0143	1841.14	3989.15	47869.74
		Step D	24.1649	1933.19	4188.58	50262.99
		Step E	25.3733	2029.86	4398.04	52776.46
		Step F	26.6420	2131.36	4617.95	55415.36
		Step G	27.9742	2237.94	4848.86	58186.34
		Step H	29.3726	2349.81	5091.25	61095.01
8938A	Vehicle Maintenance Parts Buyer-A	Step A	23.1108	1848.86	4005.87	48070.46
		Step B	24.2664	1941.31	4206.18	50474.11
		Step C	25.4797	2038.38	4416.48	52997.78
		Step D	26.7537	2140.30	4637.31	55647.70
		Step E	28.0914	2247.31	4869.18	58430.11
		Step F	29.4959	2359.67	5112.62	61351.47
		Step G	30.9707	2477.66	5368.25	64419.06
		Step H	32.5193	2601.54	5636.68	67640.14



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
8940A	Vehicle Maintenance Servicewriter-A	Step A	28.5289	2282.31	4945.01	59340.11
		Step B	29.9554	2396.43	5192.27	62307.23
		Step C	31.4532	2516.26	5451.89	65422.66
		Step D	33.0258	2642.06	5724.47	68693.66
		Step E	34.6771	2774.17	6010.70	72128.37
		Step F	36.4110	2912.88	6311.24	75734.88
		Step G	38.2315	3058.52	6626.79	79521.52
		Step H	40.1431	3211.45	6958.14	83497.65
8426A	Video and Multimedia Technician-A	Step A	26.2425	2099.40	4548.70	54584.40
		Step B	27.5546	2204.37	4776.13	57313.57
		Step C	28.9325	2314.60	5014.97	60179.60
		Step D	30.3790	2430.32	5265.69	63188.32
		Step E	31.8980	2551.84	5528.99	66347.84
		Step F	33.4929	2679.43	5805.44	69665.23
		Step G	35.1675	2813.40	6095.70	73148.40
		Step H	36.9259	2954.07	6400.49	76805.87



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8951A	Warehouse Worker I-A	Step A	19.0999	1527.99	3310.65	39727.79
		Step B	20.0549	1604.39	3476.18	41714.19
		Step C	21.0575	1684.60	3649.97	43799.60
		Step D	22.1105	1768.84	3832.49	45989.84
		Step E	23.2160	1857.28	4024.11	48289.28
		Step F	24.3768	1950.14	4225.31	50703.74
		Step G	25.5956	2047.65	4436.57	53238.85
		Step H	26.8754	2150.03	4658.40	55900.83
8952A	Warehouse Worker II-A	Step A	21.0098	1680.78	3641.70	43700.38
		Step B	22.0603	1764.82	3823.79	45885.42
		Step C	23.1633	1853.06	4014.97	48179.66
		Step D	24.3215	1945.72	4215.73	50588.72
		Step E	25.5376	2043.01	4426.52	53118.21
		Step F	26.8145	2145.16	4647.85	55774.16
		Step G	28.1552	2252.42	4880.23	58562.82
		Step H	29.5630	2365.04	5124.25	61491.04



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9000A	Wastewater Treatment Plant Operator Grade I-A	Step A	22.2770	1782.16	3861.35	46336.16
		Step B	23.3908	1871.26	4054.41	48652.86
		Step C	24.5603	1964.82	4257.12	51085.42
		Step D	25.7883	2063.06	4469.97	53639.66
		Step E	27.0777	2166.22	4693.47	56321.62
		Step F	28.4316	2274.53	4928.14	59137.73
		Step G	29.8532	2388.26	5174.55	62094.66
		Step H	31.3459	2507.67	5433.29	65199.47
9010A	Wastewater Treatment Plant Operator Grade II-A	Step A	24.5820	1966.56	4260.88	51130.56
		Step B	25.8111	2064.89	4473.92	53687.09
		Step C	27.1016	2168.13	4697.61	56371.33
		Step D	28.4566	2276.53	4932.48	59189.73
		Step E	29.8795	2390.36	5179.11	62149.36
		Step F	31.3735	2509.88	5438.07	65256.88
		Step G	32.9422	2635.38	5709.98	68519.78
		Step H	34.5893	2767.14	5995.48	71945.74



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9020A	Wastewater Treatment Plant Operator Grade III 24Hr-A	Step A	22.9238	2567.47	5562.84	66754.11
		Step B	24.0700	2695.84	5840.99	70091.84
		Step C	25.2735	2830.63	6133.04	73596.43
		Step D	26.5372	2972.17	6439.69	77276.33
		Step E	27.8641	3120.78	6761.69	81140.26
		Step F	29.2573	3276.82	7099.77	85197.26
		Step G	30.7201	3440.65	7454.74	89456.93
		Step H	32.2561	3612.68	7827.48	93929.76
9025A	Wastewater Treatment Plant Operator Grade III 8Hr-A	Step A	29.8543	2388.34	5174.75	62096.94
		Step B	31.3470	2507.76	5433.48	65201.76
		Step C	32.9144	2633.15	5705.16	68461.95
		Step D	34.5601	2764.81	5990.42	71885.01
		Step E	36.2881	2903.05	6289.94	75479.25
		Step F	38.1026	3048.21	6604.45	79253.41
		Step G	40.0076	3200.61	6934.65	83215.81
		Step H	42.0080	3360.64	7281.39	87376.64



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9020ZA	Wastewater Treatment Plant Operator Grade III 8Hr-ZA	Step A	32.0933	2567.46	5562.84	66754.06
		Step B	33.6979	2695.83	5840.97	70091.63
		Step C	35.3828	2830.62	6133.02	73596.22
		Step D	37.1520	2972.16	6439.68	77276.16
		Step E	39.0096	3120.77	6761.66	81139.97
		Step F	40.9601	3276.81	7099.75	85197.01
		Step G	43.0081	3440.65	7454.74	89456.85
		Step H	45.1585	3612.68	7827.47	93929.68
9030A	Wastewater Treatment Plant Operator Grade IV-A	Step A	35.9446	2875.57	6230.40	74764.77
		Step B	37.7418	3019.34	6541.91	78502.94
		Step C	39.6289	3170.31	6869.01	82428.11
		Step D	41.6103	3328.82	7212.45	86549.42
		Step E	43.6909	3495.27	7573.09	90877.07
		Step F	45.8755	3670.04	7951.75	95421.04
		Step G	48.1692	3853.54	8349.33	100191.94
		Step H	50.5777	4046.22	8766.80	105201.62



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9200A	Water Treatment Plant Operator Grade I 24Hr-A	Step A	15.9121	1782.16	3861.34	46336.04
		Step B	16.7077	1871.26	4054.40	48652.82
		Step C	17.5430	1964.82	4257.10	51085.22
		Step D	18.4202	2063.06	4469.97	53639.62
		Step E	19.3412	2166.21	4693.46	56321.57
		Step F	20.3083	2274.53	4928.15	59137.77
		Step G	21.3237	2388.25	5174.55	62094.61
		Step H	22.3899	2507.67	5433.28	65199.39
9232A	Water Treatment Plant Operator Grade I 8Hr-A	Step A	22.2770	1782.16	3861.35	46336.16
		Step B	23.3908	1871.26	4054.41	48652.86
		Step C	24.5603	1964.82	4257.12	51085.42
		Step D	25.7883	2063.06	4469.97	53639.66
		Step E	27.0777	2166.22	4693.47	56321.62
		Step F	28.4316	2274.53	4928.14	59137.73
		Step G	29.8532	2388.26	5174.55	62094.66
		Step H	31.3459	2507.67	5433.29	65199.47



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9200ZA	Water Treatment Plant Operator Grade I 8Hr-ZA	Step A	22.2770	1782.16	3861.35	46336.16
		Step B	23.3908	1871.26	4054.41	48652.86
		Step C	24.5603	1964.82	4257.12	51085.42
		Step D	25.7883	2063.06	4469.97	53639.66
		Step E	27.0777	2166.22	4693.47	56321.62
		Step F	28.4316	2274.53	4928.14	59137.73
		Step G	29.8532	2388.26	5174.55	62094.66
		Step H	31.3459	2507.67	5433.29	65199.47
9210A	Water Treatment Plant Operator Grade II 24Hr-A	Step A	17.5586	1966.56	4260.89	51130.64
		Step B	18.4367	2064.91	4473.97	53687.67
		Step C	19.3584	2168.14	4697.64	56371.66
		Step D	20.3264	2276.56	4932.54	59190.48
		Step E	21.3426	2390.37	5179.14	62149.65
		Step F	22.4099	2509.91	5438.14	65257.63
		Step G	23.5303	2635.39	5710.02	68520.23
		Step H	24.7068	2767.16	5995.52	71946.20



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9234A	Water Treatment Plant Operator Grade II 8Hr-A	Step A	24.5822	1966.58	4260.91	51130.98
		Step B	25.8113	2064.90	4473.96	53687.50
		Step C	27.1019	2168.15	4697.66	56371.95
		Step D	28.4569	2276.55	4932.53	59190.35
		Step E	29.8797	2390.38	5179.15	62149.78
		Step F	31.3737	2509.90	5438.11	65257.30
		Step G	32.9425	2635.40	5710.03	68520.40
		Step H	34.5896	2767.17	5995.53	71946.37
9210ZA	Water Treatment Plant Operator Grade II 8Hr-ZA	Step A	24.5822	1966.58	4260.91	51130.98
		Step B	25.8113	2064.90	4473.96	53687.50
		Step C	27.1019	2168.15	4697.66	56371.95
		Step D	28.4569	2276.55	4932.53	59190.35
		Step E	29.8797	2390.38	5179.15	62149.78
		Step F	31.3737	2509.90	5438.11	65257.30
		Step G	32.9425	2635.40	5710.03	68520.40
		Step H	34.5896	2767.17	5995.53	71946.37



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9230A	Water Treatment Plant Operator Grade III 24Hr-A	Step A	22.3907	2507.76	5433.48	65201.72
		Step B	23.5102	2633.14	5705.14	68461.70
		Step C	24.6858	2764.81	5990.42	71885.05
		Step D	25.9201	2903.05	6289.94	75479.33
		Step E	27.2161	3048.20	6604.44	79253.28
		Step F	28.5769	3200.61	6934.66	83215.93
		Step G	30.0057	3360.64	7281.38	87376.60
		Step H	31.5060	3528.67	7645.46	91745.47
9229A	Water Treatment Plant Operator Grade III 8Hr-A	Step A	29.8543	2388.34	5174.75	62096.94
		Step B	31.3470	2507.76	5433.48	65201.76
		Step C	32.9144	2633.15	5705.16	68461.95
		Step D	34.5601	2764.81	5990.42	71885.01
		Step E	36.2881	2903.05	6289.94	75479.25
		Step F	38.1026	3048.21	6604.45	79253.41
		Step G	40.0076	3200.61	6934.65	83215.81
		Step H	42.0080	3360.64	7281.39	87376.64



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9230ZA	Water Treatment Plant Operator Grade III 8Hr-ZA	Step A	31.3470	2507.76	5433.48	65201.76
		Step B	32.9143	2633.14	5705.15	68461.74
		Step C	34.5600	2764.80	5990.40	71884.80
		Step D	36.2880	2903.04	6289.92	75479.04
		Step E	38.1024	3048.19	6604.42	79252.99
		Step F	40.0076	3200.61	6934.65	83215.81
		Step G	42.0080	3360.64	7281.39	87376.64
		Step H	44.1084	3528.67	7645.46	91745.47
1641A	Youth Development Program Coordinator-A	Step A	24.4985	1959.88	4246.41	50956.88
		Step B	25.7234	2057.87	4458.72	53504.67
		Step C	27.0096	2160.77	4681.66	56179.97
		Step D	28.3601	2268.81	4915.75	58989.01
		Step E	29.7781	2382.25	5161.54	61938.45
		Step F	31.2670	2501.36	5419.61	65035.36
		Step G	32.8304	2626.43	5690.60	68287.23
		Step H	34.4719	2757.75	5975.13	71701.55



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0035B	Accountant I-B	Step A	28.9969	2319.75	5026.13	60313.55
		Step B	29.7131	2377.05	5150.27	61803.25
		Step C	30.4468	2435.74	5277.45	63329.34
		Step D	31.1987	2495.90	5407.77	64893.30
		Step E	31.9692	2557.54	5541.33	66495.94
		Step F	32.7587	2620.70	5678.17	68138.10
		Step G	33.5676	2685.41	5818.38	69820.61
		Step H	34.3966	2751.73	5962.08	71544.93
		Step I	35.2461	2819.69	6109.32	73311.89
		Step J	36.1165	2889.32	6260.19	75122.32
		Step K	37.0084	2960.67	6414.79	76977.47
		Step L	37.9223	3033.78	6573.20	78878.38
		Step M	38.8589	3108.71	6735.54	80826.51
		Step N	39.8185	3185.48	6901.87	82822.48
		Step O	40.8018	3264.14	7072.31	84867.74



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0040B	Accountant II-B	Step A	31.8967	2551.74	5528.76	66345.14
		Step B	32.6843	2614.74	5665.28	67983.34
		Step C	33.4915	2679.32	5805.19	69662.32
		Step D	34.3186	2745.49	5948.56	71382.69
		Step E	35.1661	2813.29	6095.46	73145.49
		Step F	36.0345	2882.76	6245.98	74951.76
		Step G	36.9245	2953.96	6400.25	76802.96
		Step H	37.8363	3026.90	6558.29	78699.50
		Step I	38.7707	3101.66	6720.25	80643.06
		Step J	39.7281	3178.25	6886.20	82634.45
		Step K	40.7093	3256.74	7056.28	84675.34
		Step L	41.7146	3337.17	7230.53	86766.37
		Step M	42.7448	3419.58	7409.10	88909.18
		Step N	43.8004	3504.03	7592.07	91104.83
		Step O	44.8820	3590.56	7779.55	93354.56



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1003B	Administrative Supervisor-B	Step A	28.2888	2263.10	4903.39	58840.70
		Step B	28.9873	2318.98	5024.47	60293.58
		Step C	29.7032	2376.26	5148.55	61782.66
		Step D	30.4368	2434.94	5275.71	63308.54
		Step E	31.1884	2495.07	5405.99	64871.87
		Step F	31.9586	2556.69	5539.49	66473.89
		Step G	32.7478	2619.82	5676.29	68115.42
		Step H	33.5565	2684.52	5816.46	69797.52
		Step I	34.3852	2750.82	5960.10	71521.22
		Step J	35.2343	2818.74	6107.28	73287.34
		Step K	36.1045	2888.36	6258.11	75097.36
		Step L	36.9962	2959.70	6412.67	76952.10
		Step M	37.9098	3032.78	6571.03	78852.38
		Step N	38.8459	3107.67	6733.29	80799.47
		Step O	39.8052	3184.42	6899.57	82794.82



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0084B	Administrative Technician-B	Step A	24.5990	1967.92	4263.83	51165.92
		Step B	25.2065	2016.52	4369.13	52429.52
		Step C	25.8289	2066.31	4477.01	53724.11
		Step D	26.4668	2117.34	4587.58	55050.94
		Step E	27.1204	2169.63	4700.87	56410.43
		Step F	27.7902	2223.22	4816.97	57803.62
		Step G	28.4764	2278.11	4935.91	59230.91
		Step H	29.1797	2334.38	5057.81	60693.78
		Step I	29.9003	2392.02	5182.72	62192.62
		Step J	30.6387	2451.10	5310.71	63728.50
		Step K	31.3953	2511.62	5441.85	65302.22
		Step L	32.1706	2573.65	5576.24	66914.85
		Step M	32.9651	2637.21	5713.95	68567.41
		Step N	33.7792	2702.34	5855.06	70260.74
		Step O	34.6133	2769.06	5999.64	71995.66



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8302B	Aquatics Maintenance Technician-B	Step A	25.2065	2016.52	4369.13	52429.52
		Step B	25.8287	2066.30	4476.97	53723.70
		Step C	26.4666	2117.33	4587.54	55050.53
		Step D	27.1201	2169.61	4700.82	56409.81
		Step E	27.7900	2223.20	4816.93	57803.20
		Step F	28.4762	2278.10	4935.87	59230.50
		Step G	29.1794	2334.35	5057.76	60693.15
		Step H	29.9001	2392.01	5182.68	62192.21
		Step I	30.6385	2451.08	5310.67	63728.08
		Step J	31.3950	2511.60	5441.80	65301.60
		Step K	32.1703	2573.62	5576.19	66914.22
		Step L	32.9648	2637.18	5713.90	68566.78
		Step M	33.7789	2702.31	5855.01	70260.11
		Step N	34.6131	2769.05	5999.60	71995.25
		Step O	35.4679	2837.43	6147.77	73773.23



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8300B	Arborist Technician-B	Step A	25.2065	2016.52	4369.13	52429.52
		Step B	25.8287	2066.30	4476.97	53723.70
		Step C	26.4666	2117.33	4587.54	55050.53
		Step D	27.1201	2169.61	4700.82	56409.81
		Step E	27.7900	2223.20	4816.93	57803.20
		Step F	28.4762	2278.10	4935.87	59230.50
		Step G	29.1794	2334.35	5057.76	60693.15
		Step H	29.9001	2392.01	5182.68	62192.21
		Step I	30.6385	2451.08	5310.67	63728.08
		Step J	31.3950	2511.60	5441.80	65301.60
		Step K	32.1703	2573.62	5576.19	66914.22
		Step L	32.9648	2637.18	5713.90	68566.78
		Step M	33.7789	2702.31	5855.01	70260.11
		Step N	34.6131	2769.05	5999.60	71995.25
		Step O	35.4679	2837.43	6147.77	73773.23



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0376B	Assistant Child Care Site Coordinator-B	Step A	19.3663	1549.30	3356.83	40281.90
		Step B	19.8446	1587.57	3439.73	41276.77
		Step C	20.3347	1626.78	3524.68	42296.18
		Step D	20.8368	1666.94	3611.71	43340.54
		Step E	21.3514	1708.11	3700.91	44410.91
		Step F	21.8786	1750.29	3792.29	45507.49
		Step G	22.4189	1793.51	3885.94	46631.31
		Step H	22.9726	1837.81	3981.92	47783.01
		Step I	23.5399	1883.19	4080.25	48962.99
		Step J	24.1213	1929.70	4181.03	50172.30
		Step K	24.7170	1977.36	4284.28	51411.36
		Step L	25.3274	2026.19	4390.08	52680.99
		Step M	25.9528	2076.22	4498.49	53981.82
		Step N	26.5937	2127.50	4609.57	55314.90
		Step O	27.2505	2180.04	4723.42	56681.04



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0338B	Assistant Engineer-B	Step A	32.8716	2629.73	5697.74	68372.93
		Step B	33.6832	2694.66	5838.42	70061.06
		Step C	34.5150	2761.20	5982.60	71791.20
		Step D	35.3673	2829.38	6130.33	73563.98
		Step E	36.2408	2899.26	6281.74	75380.86
		Step F	37.1357	2970.86	6436.85	77242.26
		Step G	38.0528	3044.22	6595.82	79149.82
		Step H	38.9926	3119.41	6758.72	81104.61
		Step I	39.9555	3196.44	6925.62	83107.44
		Step J	40.9422	3275.38	7096.65	85159.78
		Step K	41.9533	3356.26	7271.91	87262.86
		Step L	42.9894	3439.15	7451.50	89417.95
		Step M	44.0510	3524.08	7635.51	91626.08
		Step N	45.1388	3611.10	7824.06	93888.70
		Step O	46.2536	3700.29	8017.29	96207.49



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0650B	Assistant Planner-B	Step A	27.5670	2205.36	4778.28	57339.36
		Step B	28.2478	2259.82	4896.29	58755.42
		Step C	28.9454	2315.63	5017.20	60206.43
		Step D	29.6602	2372.82	5141.10	61693.22
		Step E	30.3927	2431.42	5268.07	63216.82
		Step F	31.1432	2491.46	5398.15	64777.86
		Step G	31.9124	2552.99	5531.48	66377.79
		Step H	32.7004	2616.03	5668.07	68016.83
		Step I	33.5080	2680.64	5808.05	69696.64
		Step J	34.3355	2746.84	5951.49	71417.84
		Step K	35.1834	2814.67	6098.46	73181.47
		Step L	36.0523	2884.18	6249.07	74988.78
		Step M	36.9426	2955.41	6403.38	76840.61
		Step N	37.8549	3028.39	6561.52	78738.19
		Step O	38.7897	3103.18	6723.55	80682.58



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1005B	Associate Engineer (PE)-B	Step A	37.9611	3036.89	6579.92	78959.09
		Step B	38.8983	3111.86	6742.37	80908.46
		Step C	39.8590	3188.72	6908.89	82906.72
		Step D	40.8433	3267.46	7079.51	84954.06
		Step E	41.8519	3348.15	7254.33	87051.95
		Step F	42.8855	3430.84	7433.49	89201.84
		Step G	43.9445	3515.56	7617.05	91404.56
		Step H	45.0298	3602.38	7805.17	93661.98
		Step I	46.1418	3691.34	7997.91	95974.94
		Step J	47.2813	3782.50	8195.43	98345.10
		Step K	48.4489	3875.91	8397.81	100773.71
		Step L	49.6455	3971.64	8605.22	103262.64
		Step M	50.8714	4069.71	8817.71	105812.51
		Step N	52.1278	4170.22	9035.49	108425.82
		Step O	53.4151	4273.21	9258.62	111103.41



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0820B	Associate Engineer-B	Step A	36.1534	2892.27	6266.59	75199.07
		Step B	37.0460	2963.68	6421.31	77055.68
		Step C	37.9610	3036.88	6579.91	78958.88
		Step D	38.8985	3111.88	6742.41	80908.88
		Step E	39.8590	3188.72	6908.89	82906.72
		Step F	40.8434	3267.47	7079.52	84954.27
		Step G	41.8520	3348.16	7254.35	87052.16
		Step H	42.8855	3430.84	7433.49	89201.84
		Step I	43.9446	3515.57	7617.06	91404.77
		Step J	45.0299	3602.39	7805.18	93662.19
		Step K	46.1419	3691.35	7997.93	95975.15
		Step L	47.2814	3782.51	8195.44	98345.31
		Step M	48.4490	3875.92	8397.83	100773.92
		Step N	49.6455	3971.64	8605.22	103262.64
		Step O	50.8715	4069.72	8817.73	105812.72



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
0900B	Associate Planner-B	Step A	31.7021	2536.17	5495.03	65940.37
		Step B	32.4850	2598.80	5630.73	67568.80
		Step C	33.2872	2662.98	5769.78	69237.38
		Step D	34.1093	2728.74	5912.28	70947.34
		Step E	34.9516	2796.13	6058.28	72699.33
		Step F	35.8147	2865.18	6207.88	74494.58
		Step G	36.6991	2935.93	6361.18	76334.13
		Step H	37.6055	3008.44	6518.29	78219.44
		Step I	38.5342	3082.74	6679.26	80151.14
		Step J	39.4858	3158.86	6844.21	82130.46
		Step K	40.4609	3236.87	7013.22	84158.67
		Step L	41.4601	3316.81	7186.42	86237.01
		Step M	42.4840	3398.72	7363.89	88366.72
		Step N	43.5331	3482.65	7545.74	90548.85
		Step O	44.6082	3568.66	7732.09	92785.06



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1018B	Building Inspector I-B	Step A	27.0903	2167.22	4695.65	56347.82
		Step B	27.7594	2220.75	4811.63	57739.55
		Step C	28.4449	2275.59	4930.45	59165.39
		Step D	29.1474	2331.79	5052.22	60626.59
		Step E	29.8672	2389.38	5176.98	62123.78
		Step F	30.6047	2448.38	5304.81	63657.78
		Step G	31.3606	2508.85	5435.84	65230.05
		Step H	32.1351	2570.81	5570.08	66841.01
		Step I	32.9286	2634.29	5707.62	68491.49
		Step J	33.7418	2699.34	5848.58	70182.94
		Step K	34.5751	2766.01	5993.02	71916.21
		Step L	35.4289	2834.31	6141.01	73692.11
		Step M	36.3039	2904.31	6292.68	75512.11
		Step N	37.2004	2976.03	6448.07	77376.83
		Step O	38.1191	3049.53	6607.31	79287.73



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1019B	Building Inspector II-B	Step A	29.7995	2383.96	5165.25	61982.96
		Step B	30.5353	2442.82	5292.79	63513.42
		Step C	31.2894	2503.15	5423.50	65081.95
		Step D	32.0621	2564.97	5557.43	66689.17
		Step E	32.8539	2628.31	5694.68	68336.11
		Step F	33.6653	2693.22	5835.32	70023.82
		Step G	34.4967	2759.74	5979.43	71753.14
		Step H	35.3486	2827.89	6127.09	73525.09
		Step I	36.2215	2897.72	6278.39	75340.72
		Step J	37.1160	2969.28	6433.44	77201.28
		Step K	38.0326	3042.61	6592.32	79107.81
		Step L	38.9718	3117.74	6755.11	81061.34
		Step M	39.9343	3194.74	6921.95	83063.34
		Step N	40.9204	3273.63	7092.87	85114.43
		Step O	41.9310	3354.48	7268.04	87216.48



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9425B	Building Maintenance Aide-B	Step A	18.6899	1495.19	3239.58	38874.99
		Step B	19.1515	1532.12	3319.59	39835.12
		Step C	19.6244	1569.95	3401.56	40818.75
		Step D	20.1091	1608.73	3485.58	41826.93
		Step E	20.6057	1648.46	3571.65	42859.86
		Step F	21.1146	1689.17	3659.86	43918.37
		Step G	21.6360	1730.88	3750.24	45002.88
		Step H	22.1704	1773.63	3842.87	46114.43
		Step I	22.7178	1817.42	3937.75	47253.02
		Step J	23.2789	1862.31	4035.01	48420.11
		Step K	23.8538	1908.30	4134.66	49615.90
		Step L	24.4428	1955.42	4236.75	50841.02
		Step M	25.0465	2003.72	4341.39	52096.72
		Step N	25.6650	2053.20	4448.60	53383.20
		Step O	26.2988	2103.90	4558.46	54701.50



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Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1030B	Building Maintenance Worker I-B	Step A	22.4279	1794.23	3887.50	46650.03
		Step B	22.9819	1838.55	3983.53	47802.35
		Step C	23.5494	1883.95	4081.90	48982.75
		Step D	24.1309	1930.47	4182.69	50192.27
		Step E	24.7269	1978.15	4286.00	51431.95
		Step F	25.3375	2027.00	4391.83	52702.00
		Step G	25.9632	2077.06	4500.29	54003.46
		Step H	26.6044	2128.35	4611.43	55337.15
		Step I	27.2614	2180.91	4725.31	56703.71
		Step J	27.9347	2234.78	4842.01	58104.18
		Step K	28.6245	2289.96	4961.58	59538.96
		Step L	29.3314	2346.51	5084.11	61009.31
		Step M	30.0558	2404.46	5209.67	62516.06
		Step N	30.7980	2463.84	5338.32	64059.84
		Step O	31.5585	2524.68	5470.14	65641.68



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1032B	Building Maintenance Worker II-B	Step A	24.6708	1973.66	4276.27	51315.26
		Step B	25.2800	2022.40	4381.87	52582.40
		Step C	25.9043	2072.34	4490.08	53880.94
		Step D	26.5440	2123.52	4600.96	55211.52
		Step E	27.1996	2175.97	4714.60	56575.17
		Step F	27.8712	2229.70	4831.01	57972.10
		Step G	28.5595	2284.76	4950.31	59403.76
		Step H	29.2649	2341.19	5072.58	60870.99
		Step I	29.9875	2399.00	5197.83	62374.00
		Step J	30.7281	2458.25	5326.20	63914.45
		Step K	31.4869	2518.95	5457.73	65492.75
		Step L	32.2646	2581.17	5592.53	67110.37
		Step M	33.0613	2644.90	5730.63	68767.50
		Step N	33.8778	2710.22	5872.15	70465.82
		Step O	34.7144	2777.15	6017.16	72205.95



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1045B	Building Plans Examiner I-B	Step A	26.3840	2110.72	4573.23	54878.72
		Step B	27.0355	2162.84	4686.15	56233.84
		Step C	27.7032	2216.26	4801.89	57622.66
		Step D	28.3873	2270.98	4920.47	59045.58
		Step E	29.0883	2327.06	5041.97	60503.66
		Step F	29.8067	2384.54	5166.49	61997.94
		Step G	30.5427	2443.42	5294.07	63528.82
		Step H	31.2970	2503.76	5424.81	65097.76
		Step I	32.0700	2565.60	5558.80	66705.60
		Step J	32.8619	2628.95	5696.06	68352.75
		Step K	33.6734	2693.87	5836.72	70040.67
		Step L	34.5050	2760.40	5980.87	71770.40
		Step M	35.3571	2828.57	6128.56	73542.77
		Step N	36.2304	2898.43	6279.94	75359.23
		Step O	37.1250	2970.00	6435.00	77220.00



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1047B	Building Plans Examiner II-B	Step A	29.0223	2321.78	5030.53	60366.38
		Step B	29.7391	2379.13	5154.78	61857.33
		Step C	30.4735	2437.88	5282.07	63384.88
		Step D	31.2260	2498.08	5412.51	64950.08
		Step E	31.9971	2559.77	5546.16	66553.97
		Step F	32.7873	2622.98	5683.13	68197.58
		Step G	33.5970	2687.76	5823.48	69881.76
		Step H	34.4268	2754.14	5967.31	71607.74
		Step I	35.2770	2822.16	6114.68	73376.16
		Step J	36.1481	2891.85	6265.67	75188.05
		Step K	37.0408	2963.26	6420.41	77044.86
		Step L	37.9556	3036.45	6578.97	78947.65
		Step M	38.8929	3111.43	6741.44	80897.23
		Step N	39.8534	3188.27	6907.92	82895.07
		Step O	40.8376	3267.01	7078.52	84942.21



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1361B	Business Systems Analyst I-B	Step A	28.4689	2277.51	4934.61	59215.31
		Step B	29.1717	2333.74	5056.43	60677.14
		Step C	29.8921	2391.37	5181.30	62175.57
		Step D	30.6303	2450.42	5309.25	63711.02
		Step E	31.3868	2510.94	5440.38	65284.54
		Step F	32.1619	2572.95	5574.73	66896.75
		Step G	32.9560	2636.48	5712.37	68548.48
		Step H	33.7700	2701.60	5853.47	70241.60
		Step I	34.6040	2768.32	5998.03	71976.32
		Step J	35.4585	2836.68	6146.14	73753.68
		Step K	36.3342	2906.74	6297.93	75575.14
		Step L	37.2315	2978.52	6453.46	77441.52
		Step M	38.1509	3052.07	6612.82	79353.87
		Step N	39.0931	3127.45	6776.14	81313.65
		Step O	40.0585	3204.68	6943.47	83321.68



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1362B	Business Systems Analyst II-B	Step A	31.3159	2505.27	5428.09	65137.07
		Step B	32.0889	2567.11	5562.08	66744.91
		Step C	32.8814	2630.51	5699.44	68393.31
		Step D	33.6934	2695.47	5840.19	70082.27
		Step E	34.5254	2762.03	5984.40	71812.83
		Step F	35.3780	2830.24	6132.19	73586.24
		Step G	36.2518	2900.14	6283.65	75403.74
		Step H	37.1470	2971.76	6438.81	77265.76
		Step I	38.0643	3045.14	6597.81	79173.74
		Step J	39.0043	3120.34	6760.75	81128.94
		Step K	39.9675	3197.40	6927.70	83132.40
		Step L	40.9546	3276.37	7098.80	85185.57
		Step M	41.9660	3357.28	7274.11	87289.28
		Step N	43.0024	3440.19	7453.75	89444.99
		Step O	44.0644	3525.15	7637.83	91653.95



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1055B	Buyer I-B	Step A	23.7853	1902.82	4122.79	49473.42
		Step B	24.3727	1949.82	4224.60	50695.22
		Step C	24.9745	1997.96	4328.91	51946.96
		Step D	25.5913	2047.30	4435.83	53229.90
		Step E	26.2233	2097.86	4545.37	54544.46
		Step F	26.8709	2149.67	4657.62	55891.47
		Step G	27.5345	2202.76	4772.65	57271.76
		Step H	28.2145	2257.16	4890.51	58686.16
		Step I	28.9112	2312.90	5011.27	60135.30
		Step J	29.6252	2370.02	5135.03	61620.42
		Step K	30.3569	2428.55	5261.86	63142.35
		Step L	31.1066	2488.53	5391.81	64701.73
		Step M	31.8747	2549.98	5524.95	66299.38
		Step N	32.6619	2612.95	5661.40	67936.75
		Step O	33.4685	2677.48	5801.21	69614.48



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1060B	Buyer II-B	Step A	26.1639	2093.11	4535.08	54420.91
		Step B	26.8099	2144.79	4647.05	55764.59
		Step C	27.4720	2197.76	4761.81	57141.76
		Step D	28.1505	2252.04	4879.42	58553.04
		Step E	28.8457	2307.66	4999.92	59999.06
		Step F	29.5580	2364.64	5123.39	61480.64
		Step G	30.2880	2423.04	5249.92	62999.04
		Step H	31.0360	2482.88	5379.57	64554.88
		Step I	31.8024	2544.19	5512.42	66148.99
		Step J	32.5878	2607.02	5648.55	67782.62
		Step K	33.3926	2671.41	5788.05	69456.61
		Step L	34.2172	2737.38	5930.98	71171.78
		Step M	35.0622	2804.98	6077.45	72929.38
		Step N	35.9281	2874.25	6227.54	74730.45
		Step O	36.8153	2945.22	6381.32	76575.82



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1225B	Child Care Site Coordinator-B	Step A	22.2712	1781.70	3860.34	46324.10
		Step B	22.8212	1825.70	3955.67	47468.10
		Step C	23.3849	1870.79	4053.38	48640.59
		Step D	23.9623	1916.98	4153.47	49841.58
		Step E	24.5541	1964.33	4256.04	51072.53
		Step F	25.1605	2012.84	4361.15	52333.84
		Step G	25.7819	2062.55	4468.86	53626.35
		Step H	26.4186	2113.49	4579.22	54950.69
		Step I	27.0710	2165.68	4692.31	56307.68
		Step J	27.7395	2219.16	4808.18	57698.16
		Step K	28.4245	2273.96	4926.91	59122.96
		Step L	29.1265	2330.12	5048.59	60583.12
		Step M	29.8458	2387.66	5173.27	62079.26
		Step N	30.5828	2446.62	5301.02	63612.22
		Step O	31.3380	2507.04	5431.92	65183.04



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1226B	City Clerk Technician I-B	Step A	23.0364	1842.91	3992.98	47915.71
		Step B	23.6053	1888.42	4091.59	49099.02
		Step C	24.1882	1935.06	4192.62	50311.46
		Step D	24.7855	1982.84	4296.15	51553.84
		Step E	25.3976	2031.81	4402.25	52827.01
		Step F	26.0248	2081.98	4510.97	54131.58
		Step G	26.6675	2133.40	4622.37	55468.40
		Step H	27.3262	2186.10	4736.54	56838.50
		Step I	28.0010	2240.08	4853.51	58242.08
		Step J	28.6924	2295.39	4973.35	59680.19
		Step K	29.4010	2352.08	5096.17	61154.08
		Step L	30.1271	2410.17	5222.03	62664.37
		Step M	30.8712	2469.70	5351.01	64212.10
		Step N	31.6335	2530.68	5483.14	65797.68
		Step O	32.4147	2593.18	5618.55	67422.58



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1227B	City Clerk Technician II-B	Step A	25.3400	2027.20	4392.27	52707.20
		Step B	25.9659	2077.27	4500.76	54009.07
		Step C	26.6071	2128.57	4611.90	55342.77
		Step D	27.2641	2181.13	4725.78	56709.33
		Step E	27.9374	2234.99	4842.48	58109.79
		Step F	28.6274	2290.19	4962.08	59544.99
		Step G	29.3343	2346.74	5084.61	61015.34
		Step H	30.0587	2404.70	5210.17	62522.10
		Step I	30.8011	2464.09	5338.86	64066.29
		Step J	31.5617	2524.94	5470.69	65648.34
		Step K	32.3412	2587.30	5605.81	67269.70
		Step L	33.1399	2651.19	5744.25	68930.99
		Step M	33.9582	2716.66	5886.09	70633.06
		Step N	34.7968	2783.74	6031.45	72377.34
		Step O	35.6562	2852.50	6180.41	74164.90



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Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1364B	Code Enforcement Inspector I-B	Step A	23.9711	1917.69	4154.99	49859.89
		Step B	24.5631	1965.05	4257.60	51091.25
		Step C	25.1697	2013.58	4362.75	52352.98
		Step D	25.7912	2063.30	4470.47	53645.70
		Step E	26.4282	2114.26	4580.89	54970.66
		Step F	27.0807	2166.46	4693.99	56327.86
		Step G	27.7496	2219.97	4809.93	57719.17
		Step H	28.4349	2274.79	4928.72	59144.59
		Step I	29.1371	2330.97	5050.43	60605.17
		Step J	29.8566	2388.53	5175.14	62101.73
		Step K	30.5939	2447.51	5302.94	63635.31
		Step L	31.3494	2507.95	5433.90	65206.75
		Step M	32.1236	2569.89	5568.09	66817.09
		Step N	32.9170	2633.36	5705.61	68467.36
		Step O	33.7298	2698.38	5846.50	70157.98



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1369B	Code Enforcement Inspector II-B	Step A	26.3682	2109.46	4570.49	54845.86
		Step B	27.0193	2161.54	4683.35	56200.14
		Step C	27.6866	2214.93	4799.01	57588.13
		Step D	28.3703	2269.62	4917.52	59010.22
		Step E	29.0710	2325.68	5038.97	60467.68
		Step F	29.7888	2383.10	5163.39	61960.70
		Step G	30.5246	2441.97	5290.93	63491.17
		Step H	31.2784	2502.27	5421.59	65059.07
		Step I	32.0508	2564.06	5555.47	66665.66
		Step J	32.8423	2627.38	5692.67	68311.98
		Step K	33.6533	2692.26	5833.24	69998.86
		Step L	34.4844	2758.75	5977.30	71727.55
		Step M	35.3360	2826.88	6124.91	73498.88
		Step N	36.2086	2896.69	6276.16	75313.89
		Step O	37.1029	2968.23	6431.17	77174.03



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1401B	Community Relations Analyst-B	Step A	31.7524	2540.19	5503.75	66044.99
		Step B	32.5365	2602.92	5639.66	67675.92
		Step C	33.3401	2667.21	5778.95	69347.41
		Step D	34.1634	2733.07	5921.66	71059.87
		Step E	35.0071	2800.57	6067.90	72814.77
		Step F	35.8716	2869.73	6217.74	74612.93
		Step G	36.7575	2940.60	6371.30	76455.60
		Step H	37.6652	3013.22	6528.63	78343.62
		Step I	38.5954	3087.63	6689.87	80278.43
		Step J	39.5485	3163.88	6855.07	82260.88
		Step K	40.5252	3242.02	7024.37	84292.42
		Step L	41.5260	3322.08	7197.84	86374.08
		Step M	42.5515	3404.12	7375.59	88507.12
		Step N	43.6023	3488.18	7557.73	90692.78
		Step O	44.6791	3574.33	7744.38	92932.53



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1248B	Construction Inspection Supervisor-B	Step A	36.2162	2897.30	6277.47	75329.70
		Step B	37.1106	2968.85	6432.50	77190.05
		Step C	38.0271	3042.17	6591.36	79096.37
		Step D	38.9662	3117.30	6754.14	81049.70
		Step E	39.9285	3194.28	6920.94	83051.28
		Step F	40.9145	3273.16	7091.85	85102.16
		Step G	41.9249	3353.99	7266.98	87203.79
		Step H	42.9602	3436.82	7446.43	89357.22
		Step I	44.0211	3521.69	7630.32	91563.89
		Step J	45.1083	3608.66	7818.77	93825.26
		Step K	46.2223	3697.78	8011.87	96142.38
		Step L	47.3638	3789.10	8209.73	98516.70
		Step M	48.5334	3882.67	8412.46	100949.47
		Step N	49.7320	3978.56	8620.21	103442.56
		Step O	50.9601	4076.81	8833.08	105997.01



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1432B	Construction Inspector I-B	Step A	26.0268	2082.14	4511.31	54135.74
		Step B	26.6695	2133.56	4622.71	55472.56
		Step C	27.3281	2186.25	4736.87	56842.45
		Step D	28.0029	2240.23	4853.84	58246.03
		Step E	28.6945	2295.56	4973.71	59684.56
		Step F	29.4032	2352.26	5096.55	61158.66
		Step G	30.1292	2410.34	5222.39	62668.74
		Step H	30.8733	2469.86	5351.37	64216.46
		Step I	31.6358	2530.86	5483.54	65802.46
		Step J	32.4170	2593.36	5618.95	67427.36
		Step K	33.2176	2657.41	5757.72	69092.61
		Step L	34.0379	2723.03	5899.90	70798.83
		Step M	34.8784	2790.27	6045.59	72547.07
		Step N	35.7398	2859.18	6194.90	74338.78
		Step O	36.6224	2929.79	6347.88	76174.59



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1434B	Construction Inspector II-B	Step A	28.6294	2290.35	4962.43	59549.15
		Step B	29.3365	2346.92	5084.99	61019.92
		Step C	30.0609	2404.87	5210.56	62526.67
		Step D	30.8032	2464.26	5339.22	64070.66
		Step E	31.5640	2525.12	5471.09	65653.12
		Step F	32.3434	2587.47	5606.19	67274.27
		Step G	33.1422	2651.38	5744.65	68935.78
		Step H	33.9606	2716.85	5886.50	70638.05
		Step I	34.7993	2783.94	6031.88	72382.54
		Step J	35.6587	2852.70	6180.84	74170.10
		Step K	36.5393	2923.14	6333.48	76001.74
		Step L	37.4417	2995.34	6489.89	77878.74
		Step M	38.3663	3069.30	6650.16	79801.90
		Step N	39.3138	3145.10	6814.39	81772.70
		Step O	40.2846	3222.77	6982.66	83791.97



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1450B	Courier-B	Step A	13.5414	1083.31	2347.18	28166.11
		Step B	13.8758	1110.06	2405.14	28861.66
		Step C	14.2184	1137.47	2464.52	29574.27
		Step D	14.5696	1165.57	2525.40	30304.77
		Step E	14.9295	1194.36	2587.78	31053.36
		Step F	15.2981	1223.85	2651.67	31820.05
		Step G	15.6759	1254.07	2717.16	32605.87
		Step H	16.0631	1285.05	2784.27	33411.25
		Step I	16.4597	1316.78	2853.01	34236.18
		Step J	16.8662	1349.30	2923.47	35081.70
		Step K	17.2827	1382.62	2995.67	35948.02
		Step L	17.7095	1416.76	3069.65	36835.76
		Step M	18.1469	1451.75	3145.46	37745.55
		Step N	18.5951	1487.61	3223.15	38677.81
		Step O	19.0543	1524.34	3302.75	39632.94



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1485B	Custodian-B	Step A	16.6886	1335.09	2892.69	34712.29
		Step B	17.1007	1368.06	2964.12	35569.46
		Step C	17.5229	1401.83	3037.30	36447.63
		Step D	17.9557	1436.46	3112.32	37347.86
		Step E	18.3991	1471.93	3189.18	38270.13
		Step F	18.8535	1508.28	3267.94	39215.28
		Step G	19.3191	1545.53	3348.64	40183.73
		Step H	19.7962	1583.70	3431.34	41176.10
		Step I	20.2851	1622.81	3516.08	42193.01
		Step J	20.7860	1662.88	3602.91	43234.88
		Step K	21.2994	1703.95	3691.90	44302.75
		Step L	21.8253	1746.02	3783.05	45396.62
		Step M	22.3644	1789.15	3876.50	46517.95
		Step N	22.9166	1833.33	3972.21	47666.53
		Step O	23.4826	1878.61	4070.32	48843.81



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1546B	Data Management Specialist I-B	Step A	29.8871	2390.97	5180.43	62165.17
		Step B	30.6251	2450.01	5308.35	63700.21
		Step C	31.3815	2510.52	5439.46	65273.52
		Step D	32.1564	2572.51	5573.78	66885.31
		Step E	32.9505	2636.04	5711.42	68537.04
		Step F	33.7643	2701.14	5852.48	70229.74
		Step G	34.5980	2767.84	5996.99	71963.84
		Step H	35.4525	2836.20	6145.10	73741.20
		Step I	36.3281	2906.25	6296.87	75562.45
		Step J	37.2252	2978.02	6452.37	77428.42
		Step K	38.1445	3051.56	6611.71	79340.56
		Step L	39.0865	3126.92	6774.99	81299.92
		Step M	40.0517	3204.14	6942.29	83307.54
		Step N	41.0408	3283.26	7113.74	85364.86
		Step O	42.0543	3364.34	7289.41	87472.94



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1548B	Data Management Specialist II-B	Step A	32.8758	2630.06	5698.47	68381.66
		Step B	33.6877	2695.02	5839.20	70070.42
		Step C	34.5196	2761.57	5983.40	71800.77
		Step D	35.3720	2829.76	6131.15	73573.76
		Step E	36.2455	2899.64	6282.55	75390.64
		Step F	37.1407	2971.26	6437.72	77252.66
		Step G	38.0579	3044.63	6596.70	79160.43
		Step H	38.9977	3119.82	6759.60	81115.22
		Step I	39.9608	3196.86	6926.54	83118.46
		Step J	40.9476	3275.81	7097.58	85171.01
		Step K	41.9589	3356.71	7272.88	87274.51
		Step L	42.9951	3439.61	7452.48	89429.81
		Step M	44.0569	3524.55	7636.53	91638.35
		Step N	45.1448	3611.58	7825.10	93901.18
		Step O	46.2597	3700.78	8018.35	96220.18



City of Roseville

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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1551B	Database Analyst I-B	Step A	29.4587	2356.70	5106.17	61274.10
		Step B	30.1862	2414.90	5232.27	62787.30
		Step C	30.9317	2474.54	5361.49	64337.94
		Step D	31.6955	2535.64	5493.89	65926.64
		Step E	32.4783	2598.26	5629.57	67554.86
		Step F	33.2803	2662.42	5768.59	69223.02
		Step G	34.1022	2728.18	5911.05	70932.58
		Step H	34.9443	2795.54	6057.01	72684.14
		Step I	35.8074	2864.59	6206.62	74479.39
		Step J	36.6916	2935.33	6359.88	76318.53
		Step K	37.5978	3007.82	6516.95	78203.42
		Step L	38.5263	3082.10	6677.89	80134.70
		Step M	39.4776	3158.21	6842.78	82113.41
		Step N	40.4525	3236.20	7011.77	84141.20
		Step O	41.4515	3316.12	7184.93	86219.12



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1552B	Database Analyst II-B	Step A	32.4046	2592.37	5616.80	67401.57
		Step B	33.2048	2656.38	5755.50	69065.98
		Step C	34.0248	2721.98	5897.63	70771.58
		Step D	34.8651	2789.21	6043.28	72519.41
		Step E	35.7261	2858.09	6192.52	74310.29
		Step F	36.6084	2928.67	6345.46	76145.47
		Step G	37.5125	3001.00	6502.17	78026.00
		Step H	38.4389	3075.11	6662.74	79952.91
		Step I	39.3881	3151.05	6827.27	81927.25
		Step J	40.3608	3228.86	6995.87	83950.46
		Step K	41.3575	3308.60	7168.63	86023.60
		Step L	42.3789	3390.31	7345.68	88148.11
		Step M	43.4254	3474.03	7527.07	90324.83
		Step N	44.4979	3559.83	7712.97	92555.63
		Step O	45.5967	3647.74	7903.43	94841.14



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1660B	Deputy City Clerk I-B	Step A	16.0379	1283.03	2779.90	33358.83
		Step B	16.4339	1314.71	2848.54	34182.51
		Step C	16.8397	1347.18	2918.88	35026.58
		Step D	17.2556	1380.45	2990.97	35891.65
		Step E	17.6818	1414.54	3064.85	36778.14
		Step F	18.1184	1449.47	3140.52	37686.27
		Step G	18.5658	1485.26	3218.07	38616.86
		Step H	19.0243	1521.94	3297.55	39570.54
		Step I	19.4941	1559.53	3378.98	40547.73
		Step J	19.9755	1598.04	3462.42	41549.04
		Step K	20.4689	1637.51	3547.94	42575.31
		Step L	20.9743	1677.94	3635.55	43626.54
		Step M	21.4924	1719.39	3725.35	44704.19
		Step N	22.0231	1761.85	3817.34	45808.05
		Step O	22.5669	1805.35	3911.60	46939.15



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1665B	Deputy City Clerk II-B	Step A	17.6416	1411.33	3057.88	36694.53
		Step B	18.0772	1446.18	3133.38	37600.58
		Step C	18.5237	1481.90	3210.77	38529.30
		Step D	18.9811	1518.49	3290.06	39480.69
		Step E	19.4498	1555.98	3371.30	40455.58
		Step F	19.9301	1594.41	3454.55	41454.61
		Step G	20.4224	1633.79	3539.88	42478.59
		Step H	20.9267	1674.14	3627.29	43527.54
		Step I	21.4435	1715.48	3716.87	44602.48
		Step J	21.9731	1757.85	3808.67	45704.05
		Step K	22.5156	1801.25	3902.70	46832.45
		Step L	23.0717	1845.74	3999.09	47989.14
		Step M	23.6415	1891.32	4097.86	49174.32
		Step N	24.2254	1938.03	4199.07	50388.83
		Step O	24.8236	1985.89	4302.76	51633.09



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1282B	Development Services Analyst-B	Step A	31.4504	2516.03	5451.40	65416.83
		Step B	32.2270	2578.16	5586.01	67032.16
		Step C	33.0229	2641.83	5723.97	68687.63
		Step D	33.8383	2707.06	5865.31	70383.66
		Step E	34.6740	2773.92	6010.16	72121.92
		Step F	35.5303	2842.42	6158.59	73903.02
		Step G	36.4077	2912.62	6310.67	75728.02
		Step H	37.3069	2984.55	6466.53	77598.35
		Step I	38.2281	3058.25	6626.20	79514.45
		Step J	39.1722	3133.78	6789.85	81478.18
		Step K	40.1396	3211.17	6957.53	83490.37
		Step L	41.1308	3290.46	7129.34	85552.06
		Step M	42.1467	3371.74	7305.43	87665.14
		Step N	43.1875	3455.00	7485.83	89830.00
		Step O	44.2540	3540.32	7670.69	92048.32



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1670B	Development Technician I-B	Step A	21.9025	1752.20	3796.43	45557.20
		Step B	22.4434	1795.47	3890.19	46682.27
		Step C	22.9977	1839.82	3986.27	47835.22
		Step D	23.5656	1885.25	4084.70	49016.45
		Step E	24.1475	1931.80	4185.57	50226.80
		Step F	24.7439	1979.51	4288.94	51467.31
		Step G	25.3549	2028.39	4394.85	52738.19
		Step H	25.9811	2078.49	4503.39	54040.69
		Step I	26.6227	2129.82	4614.60	55375.22
		Step J	27.2802	2182.42	4728.57	56742.82
		Step K	27.9539	2236.31	4845.34	58144.11
		Step L	28.6442	2291.54	4964.99	59579.94
		Step M	29.3516	2348.13	5087.61	61051.33
		Step N	30.0764	2406.11	5213.24	62558.91
		Step O	30.8191	2465.53	5341.98	64103.73



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1672B	Development Technician II-B	Step A	24.0928	1927.42	4176.09	50113.02
		Step B	24.6877	1975.02	4279.20	51350.42
		Step C	25.2974	2023.79	4384.88	52618.59
		Step D	25.9221	2073.77	4493.16	53917.97
		Step E	26.5623	2124.98	4604.13	55249.58
		Step F	27.2182	2177.46	4717.82	56613.86
		Step G	27.8904	2231.23	4834.34	58012.03
		Step H	28.5792	2286.34	4953.73	59444.74
		Step I	29.2850	2342.80	5076.07	60912.80
		Step J	30.0081	2400.65	5201.40	62416.85
		Step K	30.7493	2459.94	5329.88	63958.54
		Step L	31.5087	2520.70	5461.51	65538.10
		Step M	32.2867	2582.94	5596.36	67156.34
		Step N	33.0841	2646.73	5734.58	68814.93
		Step O	33.9011	2712.09	5876.19	70514.29



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9549B	ERP Business Analyst I-B	Step A	33.4887	2679.10	5804.71	69656.50
		Step B	34.3157	2745.26	5948.05	71376.66
		Step C	35.1631	2813.05	6094.94	73139.25
		Step D	36.0315	2882.52	6245.46	74945.52
		Step E	36.9213	2953.70	6399.69	76796.30
		Step F	37.8331	3026.65	6557.74	78692.85
		Step G	38.7674	3101.39	6719.68	80636.19
		Step H	39.7248	3177.98	6885.63	82627.58
		Step I	40.7058	3256.46	7055.67	84668.06
		Step J	41.7110	3336.88	7229.91	86758.88
		Step K	42.7411	3419.29	7408.46	88901.49
		Step L	43.7966	3503.73	7591.41	91096.93
		Step M	44.8782	3590.26	7778.89	93346.66
		Step N	45.9864	3678.91	7970.98	95651.71
		Step O	47.1221	3769.77	8167.83	98013.97



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9550B	ERP Business Analyst II-B	Step A	36.8375	2947.00	6385.17	76622.00
		Step B	37.7472	3019.78	6542.85	78514.18
		Step C	38.6794	3094.35	6704.43	80453.15
		Step D	39.6346	3170.77	6870.00	82439.97
		Step E	40.6134	3249.07	7039.66	84475.87
		Step F	41.6164	3329.31	7213.51	86562.11
		Step G	42.6441	3411.53	7391.64	88699.73
		Step H	43.6973	3495.78	7574.20	90890.38
		Step I	44.7763	3582.10	7761.23	93134.70
		Step J	45.8821	3670.57	7952.90	95434.77
		Step K	47.0152	3761.22	8149.30	97791.62
		Step L	48.1763	3854.10	8350.56	100206.70
		Step M	49.3660	3949.28	8556.77	102681.28
		Step N	50.5851	4046.81	8768.08	105217.01
		Step O	51.8343	4146.74	8984.61	107815.34



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2466B	Energy Program Technician-B	Step A	24.5990	1967.92	4263.83	51165.92
		Step B	25.2065	2016.52	4369.13	52429.52
		Step C	25.8289	2066.31	4477.01	53724.11
		Step D	26.4668	2117.34	4587.58	55050.94
		Step E	27.1204	2169.63	4700.87	56410.43
		Step F	27.7902	2223.22	4816.97	57803.62
		Step G	28.4764	2278.11	4935.91	59230.91
		Step H	29.1797	2334.38	5057.81	60693.78
		Step I	29.9003	2392.02	5182.72	62192.62
		Step J	30.6387	2451.10	5310.71	63728.50
		Step K	31.3953	2511.62	5441.85	65302.22
		Step L	32.1706	2573.65	5576.24	66914.85
		Step M	32.9651	2637.21	5713.95	68567.41
		Step N	33.7792	2702.34	5855.06	70260.74
		Step O	34.6133	2769.06	5999.64	71995.66



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1300B	Engineering Technician I-B	Step A	22.2710	1781.68	3860.31	46323.68
		Step B	22.8211	1825.69	3955.66	47467.89
		Step C	23.3847	1870.78	4053.35	48640.18
		Step D	23.9622	1916.98	4153.45	49841.38
		Step E	24.5539	1964.31	4256.01	51072.11
		Step F	25.1603	2012.82	4361.12	52333.42
		Step G	25.7816	2062.53	4468.81	53625.73
		Step H	26.4183	2113.46	4579.17	54950.06
		Step I	27.0708	2165.66	4692.27	56307.26
		Step J	27.7393	2219.14	4808.15	57697.74
		Step K	28.4243	2273.94	4926.88	59122.54
		Step L	29.1263	2330.10	5048.56	60582.70
		Step M	29.8456	2387.65	5173.24	62078.85
		Step N	30.5825	2446.60	5300.97	63611.60
		Step O	31.3378	2507.02	5431.89	65182.62



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Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1350B	Engineering Technician II-B	Step A	24.4982	1959.86	4246.35	50956.26
		Step B	25.1032	2008.26	4351.22	52214.66
		Step C	25.7231	2057.85	4458.67	53504.05
		Step D	26.3584	2108.67	4568.79	54825.47
		Step E	27.0093	2160.74	4681.61	56179.34
		Step F	27.6763	2214.10	4797.23	57566.70
		Step G	28.3598	2268.78	4915.70	58988.38
		Step H	29.0602	2324.82	5037.10	60445.22
		Step I	29.7778	2382.22	5161.49	61937.82
		Step J	30.5131	2441.05	5288.94	63467.25
		Step K	31.2667	2501.34	5419.56	65034.74
		Step L	32.0389	2563.11	5553.41	66640.91
		Step M	32.8301	2626.41	5690.55	68286.61
		Step N	33.6408	2691.26	5831.07	69972.86
		Step O	34.4716	2757.73	5975.08	71700.93



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
2542B	Environmental Compliance Specialist I-B	Step A	25.2852	2022.82	4382.77	52593.22
		Step B	25.9096	2072.77	4491.00	53891.97
		Step C	26.5495	2123.96	4601.91	55222.96
		Step D	27.2051	2176.41	4715.55	56586.61
		Step E	27.8770	2230.16	4832.01	57984.16
		Step F	28.5655	2285.24	4951.35	59416.24
		Step G	29.2709	2341.67	5073.62	60883.47
		Step H	29.9937	2399.50	5198.91	62386.90
		Step I	30.7344	2458.75	5327.30	63927.55
		Step J	31.4934	2519.47	5458.86	65506.27
		Step K	32.2711	2581.69	5593.66	67123.89
		Step L	33.0681	2645.45	5731.80	68781.65
		Step M	33.8848	2710.78	5873.37	70480.38
		Step N	34.7216	2777.73	6018.41	72220.93
		Step O	35.5790	2846.32	6167.03	74004.32



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	27.8137	2225.10	4821.04	57852.50
Step B	28.5006	2280.05	4940.10	59281.25
Step C	29.2044	2336.35	5062.10	60745.15
Step D	29.9256	2394.05	5187.10	62245.25
Step E	30.6647	2453.18	5315.21	63782.58
Step F	31.4220	2513.76	5446.48	65357.76
Step G	32.1980	2575.84	5580.99	66971.84
Step H	32.9931	2639.45	5718.80	68625.65
Step I	33.8079	2704.63	5860.04	70320.43
Step J	34.6427	2771.42	6004.73	72056.82
Step K	35.4983	2839.86	6153.04	73836.46
Step L	36.3749	2909.99	6304.98	75659.79
Step M	37.2732	2981.86	6460.69	77528.26
Step N	38.1936	3055.49	6620.22	79442.69
Step O	39.1369	3130.95	6783.73	81404.75



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Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2560B	Equipment Serviceworker-B	Step A	20.5022	1640.18	3553.71	42644.58
		Step B	21.0085	1680.68	3641.47	43697.68
		Step C	21.5273	1722.18	3731.40	44776.78
		Step D	22.0590	1764.72	3823.56	45882.72
		Step E	22.6037	1808.30	3917.97	47015.70
		Step F	23.1619	1852.95	4014.73	48176.75
		Step G	23.7339	1898.71	4113.88	49366.51
		Step H	24.3200	1945.60	4215.47	50585.60
		Step I	24.9206	1993.65	4319.57	51834.85
		Step J	25.5361	2042.89	4426.26	53115.09
		Step K	26.1666	2093.33	4535.54	54426.53
		Step L	26.8129	2145.03	4647.57	55770.83
		Step M	27.4750	2198.00	4762.33	57148.00
		Step N	28.1535	2252.28	4879.94	58559.28
		Step O	28.8488	2307.90	5000.46	60005.50



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Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3334B	Finance Clerk I-B	Step A	17.0209	1361.67	2950.29	35403.47
		Step B	17.4412	1395.30	3023.14	36277.70
		Step C	17.8720	1429.76	3097.81	37173.76
		Step D	18.3133	1465.06	3174.31	38091.66
		Step E	18.7656	1501.25	3252.70	39032.45
		Step F	19.2290	1538.32	3333.03	39996.32
		Step G	19.7039	1576.31	3415.34	40984.11
		Step H	20.1904	1615.23	3499.67	41996.03
		Step I	20.6891	1655.13	3586.11	43033.33
		Step J	21.2000	1696.00	3674.67	44096.00
		Step K	21.7235	1737.88	3765.41	45184.88
		Step L	22.2600	1780.80	3858.40	46300.80
		Step M	22.8097	1824.78	3953.68	47444.18
		Step N	23.3730	1869.84	4051.32	48615.84
		Step O	23.9503	1916.02	4151.39	49816.62



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3335B	Finance Clerk II-B	Step A	18.7230	1497.84	3245.32	38943.84
		Step B	19.1853	1534.82	3325.45	39905.42
		Step C	19.6591	1572.73	3407.58	40890.93
		Step D	20.1446	1611.57	3491.73	41900.77
		Step E	20.6421	1651.37	3577.96	42935.57
		Step F	21.1519	1692.15	3666.33	43995.95
		Step G	21.6742	1733.94	3756.86	45082.34
		Step H	22.2095	1776.76	3849.65	46195.76
		Step I	22.7580	1820.64	3944.72	47336.64
		Step J	23.3200	1865.60	4042.13	48505.60
		Step K	23.8959	1911.67	4141.96	49703.47
		Step L	24.4861	1958.89	4244.26	50931.09
		Step M	25.0907	2007.26	4349.05	52188.66
		Step N	25.7104	2056.83	4456.47	53477.63
		Step O	26.3452	2107.62	4566.50	54798.02



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3325B	Finance Technician I-B	Step A	19.5225	1561.80	3383.90	40606.80
		Step B	20.0046	1600.37	3467.46	41609.57
		Step C	20.4987	1639.90	3553.11	42637.30
		Step D	21.0049	1680.39	3640.85	43690.19
		Step E	21.5236	1721.89	3730.76	44769.09
		Step F	22.0551	1764.41	3822.88	45874.61
		Step G	22.5998	1807.98	3917.30	47007.58
		Step H	23.1579	1852.63	4014.04	48168.43
		Step I	23.7298	1898.38	4113.17	49357.98
		Step J	24.3158	1945.26	4214.74	50576.86
		Step K	24.9163	1993.30	4318.83	51825.90
		Step L	25.5317	2042.54	4425.49	53105.94
		Step M	26.1621	2092.97	4534.76	54417.17
		Step N	26.8082	2144.66	4646.75	55761.06
		Step O	27.4703	2197.62	4761.52	57138.22



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3326B	Finance Technician II-B	Step A	21.4747	1717.98	3722.28	44667.38
		Step B	22.0051	1760.41	3814.22	45770.61
		Step C	22.5486	1803.89	3908.42	46901.09
		Step D	23.1054	1848.43	4004.94	48059.23
		Step E	23.6760	1894.08	4103.84	49246.08
		Step F	24.2607	1940.86	4205.19	50462.26
		Step G	24.8598	1988.78	4309.03	51708.38
		Step H	25.4737	2037.90	4415.44	52985.30
		Step I	26.1028	2088.22	4524.49	54293.82
		Step J	26.7474	2139.79	4636.22	55634.59
		Step K	27.4080	2192.64	4750.72	57008.64
		Step L	28.0848	2246.78	4868.03	58416.38
		Step M	28.7783	2302.26	4988.24	59858.86
		Step N	29.4891	2359.13	5111.44	61337.33
		Step O	30.2173	2417.38	5237.67	62851.98



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3314B	Finance Utility Billing Analyst I-B	Step A	33.4887	2679.10	5804.71	69656.50
		Step B	34.3157	2745.26	5948.05	71376.66
		Step C	35.1631	2813.05	6094.94	73139.25
		Step D	36.0315	2882.52	6245.46	74945.52
		Step E	36.9213	2953.70	6399.69	76796.30
		Step F	37.8331	3026.65	6557.74	78692.85
		Step G	38.7674	3101.39	6719.68	80636.19
		Step H	39.7248	3177.98	6885.63	82627.58
		Step I	40.7058	3256.46	7055.67	84668.06
		Step J	41.7110	3336.88	7229.91	86758.88
		Step K	42.7411	3419.29	7408.46	88901.49
		Step L	43.7966	3503.73	7591.41	91096.93
		Step M	44.8782	3590.26	7778.89	93346.66
		Step N	45.9864	3678.91	7970.98	95651.71
		Step O	47.1221	3769.77	8167.83	98013.97



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3315B	Finance Utility Billing Analyst II-B	Step A	36.8375	2947.00	6385.17	76622.00
		Step B	37.7472	3019.78	6542.85	78514.18
		Step C	38.6794	3094.35	6704.43	80453.15
		Step D	39.6346	3170.77	6870.00	82439.97
		Step E	40.6134	3249.07	7039.66	84475.87
		Step F	41.6164	3329.31	7213.51	86562.11
		Step G	42.6441	3411.53	7391.64	88699.73
		Step H	43.6973	3495.78	7574.20	90890.38
		Step I	44.7763	3582.10	7761.23	93134.70
		Step J	45.8821	3670.57	7952.90	95434.77
		Step K	47.0152	3761.22	8149.30	97791.62
		Step L	48.1763	3854.10	8350.56	100206.70
		Step M	49.3660	3949.28	8556.77	102681.28
		Step N	50.5851	4046.81	8768.08	105217.01
		Step O	51.8343	4146.74	8984.61	107815.34



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3316B	Financial Analyst I-B	Step A	33.4886	2679.09	5804.69	69656.29
		Step B	34.3156	2745.25	5948.04	71376.45
		Step C	35.1631	2813.05	6094.94	73139.25
		Step D	36.0315	2882.52	6245.46	74945.52
		Step E	36.9213	2953.70	6399.69	76796.30
		Step F	37.8331	3026.65	6557.74	78692.85
		Step G	38.7674	3101.39	6719.68	80636.19
		Step H	39.7248	3177.98	6885.63	82627.58
		Step I	40.7058	3256.46	7055.67	84668.06
		Step J	41.7110	3336.88	7229.91	86758.88
		Step K	42.7411	3419.29	7408.46	88901.49
		Step L	43.7966	3503.73	7591.41	91096.93
		Step M	44.8781	3590.25	7778.87	93346.45
		Step N	45.9864	3678.91	7970.98	95651.71
		Step O	47.1221	3769.77	8167.83	98013.97



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3318B	Financial Analyst II-B	Step A	36.8375	2947.00	6385.17	76622.00
		Step B	37.7472	3019.78	6542.85	78514.18
		Step C	38.6794	3094.35	6704.43	80453.15
		Step D	39.6346	3170.77	6870.00	82439.97
		Step E	40.6134	3249.07	7039.66	84475.87
		Step F	41.6164	3329.31	7213.51	86562.11
		Step G	42.6441	3411.53	7391.64	88699.73
		Step H	43.6973	3495.78	7574.20	90890.38
		Step I	44.7763	3582.10	7761.23	93134.70
		Step J	45.8821	3670.57	7952.90	95434.77
		Step K	47.0152	3761.22	8149.30	97791.62
		Step L	48.1763	3854.10	8350.56	100206.70
		Step M	49.3660	3949.28	8556.77	102681.28
		Step N	50.5851	4046.81	8768.08	105217.01
		Step O	51.8343	4146.74	8984.61	107815.34



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
3319B	Fleet Management Technician-B	Step A	28.5288	2282.30	4944.99	59339.90
		Step B	29.2334	2338.67	5067.12	60805.47
		Step C	29.9553	2396.42	5192.25	62307.02
		Step D	30.6950	2455.60	5320.47	63845.60
		Step E	31.4531	2516.25	5451.87	65422.45
		Step F	32.2298	2578.38	5586.50	67037.98
		Step G	33.0257	2642.06	5724.45	68693.46
		Step H	33.8413	2707.30	5865.83	70389.90
		Step I	34.6770	2774.16	6010.68	72128.16
		Step J	35.5334	2842.67	6159.12	73909.47
		Step K	36.4109	2912.87	6311.22	75734.67
		Step L	37.3101	2984.81	6467.08	77605.01
		Step M	38.2315	3058.52	6626.79	79521.52
		Step N	39.1756	3134.05	6790.44	81485.25
		Step O	40.1431	3211.45	6958.14	83497.65



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3410B	GIS Analyst I-B	Step A	27.0292	2162.34	4685.06	56220.74
		Step B	27.6965	2215.72	4800.73	57608.72
		Step C	28.3805	2270.44	4919.29	59031.44
		Step D	29.0814	2326.51	5040.78	60489.31
		Step E	29.7997	2383.98	5165.28	61983.38
		Step F	30.5355	2442.84	5292.82	63513.84
		Step G	31.2896	2503.17	5423.53	65082.37
		Step H	32.0622	2564.98	5557.45	66689.38
		Step I	32.8542	2628.34	5694.73	68336.74
		Step J	33.6655	2693.24	5835.35	70024.24
		Step K	34.4968	2759.74	5979.45	71753.34
		Step L	35.3488	2827.90	6127.13	73525.50
		Step M	36.2217	2897.74	6278.43	75341.14
		Step N	37.1162	2969.30	6433.47	77201.70
		Step O	38.0328	3042.62	6592.35	79108.22



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3412B	GIS Analyst II-B	Step A	29.9530	2396.24	5191.85	62302.24
		Step B	30.6924	2455.39	5320.02	63840.19
		Step C	31.4503	2516.02	5451.39	65416.62
		Step D	32.2271	2578.17	5586.03	67032.37
		Step E	33.0229	2641.83	5723.97	68687.63
		Step F	33.8385	2707.08	5865.34	70384.08
		Step G	34.6741	2773.93	6010.18	72122.13
		Step H	35.5303	2842.42	6158.59	73903.02
		Step I	36.4078	2912.62	6310.69	75728.22
		Step J	37.3058	2984.46	6466.34	77596.06
		Step K	38.2282	3058.26	6626.22	79514.66
		Step L	39.1722	3133.78	6789.85	81478.18
		Step M	40.1396	3211.17	6957.53	83490.37
		Step N	41.1309	3290.47	7129.36	85552.27
		Step O	42.1467	3371.74	7305.43	87665.14



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2213B	GIS Technician I-B	Step A	21.5783	1726.26	3740.24	44882.86
		Step B	22.1110	1768.88	3832.57	45990.88
		Step C	22.6570	1812.56	3927.21	47126.56
		Step D	23.2166	1857.33	4024.21	48290.53
		Step E	23.7899	1903.19	4123.58	49482.99
		Step F	24.3774	1950.19	4225.42	50704.99
		Step G	24.9794	1998.35	4329.76	51957.15
		Step H	25.5963	2047.70	4436.69	53240.30
		Step I	26.2284	2098.27	4546.26	54555.07
		Step J	26.8761	2150.09	4658.52	55902.29
		Step K	27.5398	2203.18	4773.57	57282.78
		Step L	28.2200	2257.60	4891.47	58697.60
		Step M	28.9168	2313.34	5012.25	60146.94
		Step N	29.6311	2370.49	5136.06	61632.69
		Step O	30.3628	2429.02	5262.89	63154.62



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
2214B	GIS Technician II-B	Step A	23.7361	1898.89	4114.26	49371.09
		Step B	24.3222	1945.78	4215.85	50590.18
		Step C	24.9227	1993.82	4319.93	51839.22
		Step D	25.5382	2043.06	4426.62	53119.46
		Step E	26.1690	2093.52	4535.96	54431.52
		Step F	26.8151	2145.21	4647.95	55775.41
		Step G	27.4774	2198.19	4762.75	57152.99
		Step H	28.1559	2252.47	4880.36	58564.27
		Step I	28.8513	2308.10	5000.89	60010.70
		Step J	29.5637	2365.10	5124.37	61492.50
		Step K	30.2938	2423.50	5250.93	63011.10
		Step L	31.0420	2483.36	5380.61	64567.36
		Step M	31.8085	2544.68	5513.47	66161.68
		Step N	32.5942	2607.54	5649.66	67795.94
		Step O	33.3990	2671.92	5789.16	69469.92



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3401B	Housing Analyst I-B	Step A	27.2019	2176.15	4715.00	56579.95
		Step B	27.8735	2229.88	4831.41	57976.88
		Step C	28.5620	2284.96	4950.75	59408.96
		Step D	29.2672	2341.38	5072.98	60875.78
		Step E	29.9900	2399.20	5198.27	62379.20
		Step F	30.7306	2458.45	5326.64	63919.65
		Step G	31.4895	2519.16	5458.18	65498.16
		Step H	32.2672	2581.38	5592.98	67115.78
		Step I	33.0641	2645.13	5731.11	68773.33
		Step J	33.8806	2710.45	5872.64	70471.65
		Step K	34.7173	2777.38	6017.67	72211.98
		Step L	35.5747	2845.98	6166.28	73995.38
		Step M	36.4532	2916.26	6318.55	75822.66
		Step N	37.3535	2988.28	6474.61	77695.28
		Step O	38.2759	3062.07	6634.49	79613.87



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3402B	Housing Analyst II-B	Step A	29.9221	2393.77	5186.50	62237.97
		Step B	30.6610	2452.88	5314.57	63774.88
		Step C	31.4183	2513.46	5445.84	65350.06
		Step D	32.1941	2575.53	5580.31	66963.73
		Step E	32.9892	2639.14	5718.13	68617.54
		Step F	33.8038	2704.30	5859.33	70311.90
		Step G	34.6386	2771.09	6004.02	72048.29
		Step H	35.4940	2839.52	6152.29	73827.52
		Step I	36.3706	2909.65	6304.24	75650.85
		Step J	37.2687	2981.50	6459.91	77518.90
		Step K	38.1892	3055.14	6619.46	79433.54
		Step L	39.1323	3130.58	6782.93	81395.18
		Step M	40.0986	3207.89	6950.42	83405.09
		Step N	41.0889	3287.11	7122.08	85464.91
		Step O	42.1036	3368.29	7297.96	87575.49



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3591B	Housing Technician I-B	Step A	22.3627	1789.02	3876.20	46514.42
		Step B	22.9150	1833.20	3971.93	47663.20
		Step C	23.4809	1878.47	4070.02	48840.27
		Step D	24.0607	1924.86	4170.52	50046.26
		Step E	24.6549	1972.39	4273.52	51282.19
		Step F	25.2638	2021.10	4379.06	52548.70
		Step G	25.8877	2071.02	4487.20	53846.42
		Step H	26.5270	2122.16	4598.01	55176.16
		Step I	27.1820	2174.56	4711.55	56538.56
		Step J	27.8534	2228.27	4827.92	57935.07
		Step K	28.5412	2283.30	4947.14	59365.70
		Step L	29.2460	2339.68	5069.31	60831.68
		Step M	29.9683	2397.46	5194.51	62334.06
		Step N	30.7084	2456.67	5322.79	63873.47
		Step O	31.4667	2517.34	5454.23	65450.74



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3592B	Housing Technician II-B	Step A	24.5990	1967.92	4263.83	51165.92
		Step B	25.2065	2016.52	4369.13	52429.52
		Step C	25.8289	2066.31	4477.01	53724.11
		Step D	26.4668	2117.34	4587.58	55050.94
		Step E	27.1204	2169.63	4700.87	56410.43
		Step F	27.7902	2223.22	4816.97	57803.62
		Step G	28.4764	2278.11	4935.91	59230.91
		Step H	29.1797	2334.38	5057.81	60693.78
		Step I	29.9003	2392.02	5182.72	62192.62
		Step J	30.6387	2451.10	5310.71	63728.50
		Step K	31.3953	2511.62	5441.85	65302.22
		Step L	32.1706	2573.65	5576.24	66914.85
		Step M	32.9651	2637.21	5713.95	68567.41
		Step N	33.7792	2702.34	5855.06	70260.74
		Step O	34.6133	2769.06	5999.64	71995.66



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3604B	Industrial Waste Specialist-B	Step A	28.6881	2295.05	4972.60	59671.25
		Step B	29.3964	2351.71	5095.38	61144.51
		Step C	30.1223	2409.78	5221.20	62654.38
		Step D	30.8662	2469.30	5350.14	64201.70
		Step E	31.6284	2530.27	5482.26	65787.07
		Step F	32.4095	2592.76	5617.65	67411.76
		Step G	33.2099	2656.79	5756.38	69076.59
		Step H	34.0300	2722.40	5898.53	70782.40
		Step I	34.8704	2789.63	6044.20	72530.43
		Step J	35.7316	2858.53	6193.48	74321.73
		Step K	36.6140	2929.12	6346.43	76157.12
		Step L	37.5182	3001.46	6503.15	78037.86
		Step M	38.4447	3075.58	6663.75	79964.98
		Step N	39.3941	3151.53	6828.31	81939.73
		Step O	40.3670	3229.36	6996.95	83963.36



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3610B	Industrial Waste Technician-B	Step A	24.9436	1995.49	4323.56	51882.69
		Step B	25.5595	2044.76	4430.31	53163.76
		Step C	26.1907	2095.26	4539.72	54476.66
		Step D	26.8376	2147.01	4651.85	55822.21
		Step E	27.5003	2200.02	4766.72	57200.62
		Step F	28.1794	2254.35	4884.43	58613.15
		Step G	28.8753	2310.02	5005.05	60060.62
		Step H	29.5884	2367.07	5128.66	61543.87
		Step I	30.3191	2425.53	5255.31	63063.73
		Step J	31.0678	2485.42	5385.09	64621.02
		Step K	31.8351	2546.81	5518.08	66217.01
		Step L	32.6213	2609.70	5654.36	67852.30
		Step M	33.4269	2674.15	5794.00	69527.95
		Step N	34.2524	2740.19	5937.08	71244.99
		Step O	35.0983	2807.86	6083.71	73004.46



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3793B	Information Technology Analyst I-B	Step A	29.8871	2390.97	5180.43	62165.17
		Step B	30.6251	2450.01	5308.35	63700.21
		Step C	31.3815	2510.52	5439.46	65273.52
		Step D	32.1564	2572.51	5573.78	66885.31
		Step E	32.9505	2636.04	5711.42	68537.04
		Step F	33.7643	2701.14	5852.48	70229.74
		Step G	34.5980	2767.84	5996.99	71963.84
		Step H	35.4525	2836.20	6145.10	73741.20
		Step I	36.3281	2906.25	6296.87	75562.45
		Step J	37.2252	2978.02	6452.37	77428.42
		Step K	38.1445	3051.56	6611.71	79340.56
		Step L	39.0865	3126.92	6774.99	81299.92
		Step M	40.0517	3204.14	6942.29	83307.54
		Step N	41.0408	3283.26	7113.74	85364.86
		Step O	42.0543	3364.34	7289.41	87472.94



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
3794B	Information Technology Analyst II-B	Step A	32.8758	2630.06	5698.47	68381.66
		Step B	33.6877	2695.02	5839.20	70070.42
		Step C	34.5196	2761.57	5983.40	71800.77
		Step D	35.3720	2829.76	6131.15	73573.76
		Step E	36.2455	2899.64	6282.55	75390.64
		Step F	37.1407	2971.26	6437.72	77252.66
		Step G	38.0579	3044.63	6596.70	79160.43
		Step H	38.9977	3119.82	6759.60	81115.22
		Step I	39.9608	3196.86	6926.54	83118.46
		Step J	40.9476	3275.81	7097.58	85171.01
		Step K	41.9589	3356.71	7272.88	87274.51
		Step L	42.9951	3439.61	7452.48	89429.81
		Step M	44.0569	3524.55	7636.53	91638.35
		Step N	45.1448	3611.58	7825.10	93901.18
		Step O	46.2597	3700.78	8018.35	96220.18



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
3617B	Information Technology Technician I-B	Step A	22.1637	1773.10	3841.71	46100.50
		Step B	22.7110	1816.88	3936.57	47238.88
		Step C	23.2719	1861.75	4033.80	48405.55
		Step D	23.8465	1907.72	4133.39	49600.72
		Step E	24.4355	1954.84	4235.49	50825.84
		Step F	25.0389	2003.11	4340.08	52080.91
		Step G	25.6572	2052.58	4447.25	53366.98
		Step H	26.2909	2103.27	4557.09	54685.07
		Step I	26.9402	2155.22	4669.63	56035.62
		Step J	27.6054	2208.43	4784.94	57419.23
		Step K	28.2872	2262.98	4903.11	58837.38
		Step L	28.9857	2318.86	5024.19	60290.26
		Step M	29.7015	2376.12	5148.26	61779.12
		Step N	30.4350	2434.80	5275.40	63304.80
		Step O	31.1867	2494.94	5405.69	64868.34



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Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
3618B	Information Technology Technician II-B	Step A	24.3801	1950.41	4225.88	50710.61
		Step B	24.9820	1998.56	4330.21	51962.56
		Step C	25.5990	2047.92	4437.16	53245.92
		Step D	26.2312	2098.50	4546.74	54560.90
		Step E	26.8789	2150.31	4659.01	55908.11
		Step F	27.5427	2203.42	4774.07	57288.82
		Step G	28.2229	2257.83	4891.97	58703.63
		Step H	28.9199	2313.59	5012.78	60153.39
		Step I	29.6340	2370.72	5136.56	61638.72
		Step J	30.3659	2429.27	5263.42	63161.07
		Step K	31.1158	2489.26	5393.41	64720.86
		Step L	31.8842	2550.74	5526.59	66319.14
		Step M	32.6716	2613.73	5663.08	67956.93
		Step N	33.4784	2678.27	5802.92	69635.07
		Step O	34.3052	2744.42	5946.23	71354.82



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3730B	Interpretive Services Specialist I-B	Step A	22.2712	1781.70	3860.34	46324.10
		Step B	22.8212	1825.70	3955.67	47468.10
		Step C	23.3849	1870.79	4053.38	48640.59
		Step D	23.9623	1916.98	4153.47	49841.58
		Step E	24.5541	1964.33	4256.04	51072.53
		Step F	25.1605	2012.84	4361.15	52333.84
		Step G	25.7819	2062.55	4468.86	53626.35
		Step H	26.4186	2113.49	4579.22	54950.69
		Step I	27.0710	2165.68	4692.31	56307.68
		Step J	27.7395	2219.16	4808.18	57698.16
		Step K	28.4245	2273.96	4926.91	59122.96
		Step L	29.1265	2330.12	5048.59	60583.12
		Step M	29.8458	2387.66	5173.27	62079.26
		Step N	30.5828	2446.62	5301.02	63612.22
		Step O	31.3380	2507.04	5431.92	65183.04



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3732B	Interpretive Services Specialist II-B	Step A	24.4984	1959.87	4246.39	50956.67
		Step B	25.1034	2008.27	4351.26	52215.07
		Step C	25.7233	2057.86	4458.71	53504.46
		Step D	26.3586	2108.69	4568.82	54825.89
		Step E	27.0096	2160.77	4681.66	56179.97
		Step F	27.6765	2214.12	4797.26	57567.12
		Step G	28.3600	2268.80	4915.73	58988.80
		Step H	29.0604	2324.83	5037.14	60445.63
		Step I	29.7780	2382.24	5161.52	61938.24
		Step J	30.5135	2441.08	5289.01	63468.08
		Step K	31.2669	2501.35	5419.60	65035.15
		Step L	32.0391	2563.13	5553.44	66641.33
		Step M	32.8303	2626.42	5690.59	68287.02
		Step N	33.6411	2691.29	5831.12	69973.49
		Step O	34.4719	2757.75	5975.13	71701.55



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LO39 Stationary Engineers Local 39
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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5075B	Irrigation Technician-B	Step A	25.2065	2016.52	4369.13	52429.52
		Step B	25.8287	2066.30	4476.97	53723.70
		Step C	26.4666	2117.33	4587.54	55050.53
		Step D	27.1201	2169.61	4700.82	56409.81
		Step E	27.7900	2223.20	4816.93	57803.20
		Step F	28.4762	2278.10	4935.87	59230.50
		Step G	29.1794	2334.35	5057.76	60693.15
		Step H	29.9001	2392.01	5182.68	62192.21
		Step I	30.6385	2451.08	5310.67	63728.08
		Step J	31.3950	2511.60	5441.80	65301.60
		Step K	32.1703	2573.62	5576.19	66914.22
		Step L	32.9648	2637.18	5713.90	68566.78
		Step M	33.7789	2702.31	5855.01	70260.11
		Step N	34.6131	2769.05	5999.60	71995.25
		Step O	35.4679	2837.43	6147.77	73773.23



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3792B	Junior Engineer-B	Step A	29.8849	2390.79	5180.05	62160.59
		Step B	30.6229	2449.83	5307.97	63695.63
		Step C	31.3791	2510.33	5439.04	65268.53
		Step D	32.1540	2572.32	5573.36	66880.32
		Step E	32.9481	2635.85	5711.00	68532.05
		Step F	33.7617	2700.94	5852.03	70224.34
		Step G	34.5955	2767.64	5996.55	71958.64
		Step H	35.4498	2835.98	6144.63	73735.58
		Step I	36.3253	2906.02	6296.39	75556.62
		Step J	37.2224	2977.79	6451.88	77422.59
		Step K	38.1416	3051.33	6611.21	79334.53
		Step L	39.0835	3126.68	6774.47	81293.68
		Step M	40.0487	3203.90	6941.77	83301.30
		Step N	41.0377	3283.02	7113.20	85358.42
		Step O	42.0512	3364.10	7288.87	87466.50



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	20.6308	1650.46	3576.01	42912.06
Step B	21.1403	1691.22	3664.32	43971.82
Step C	21.6623	1732.98	3754.80	45057.58
Step D	22.1973	1775.78	3847.53	46170.38
Step E	22.7454	1819.63	3942.54	47310.43
Step F	23.3072	1864.58	4039.91	48478.98
Step G	23.8827	1910.62	4139.67	49676.02
Step H	24.4725	1957.80	4241.90	50902.80
Step I	25.0769	2006.15	4346.66	52159.95
Step J	25.6961	2055.69	4453.99	53447.89
Step K	26.3307	2106.46	4563.99	54767.86
Step L	26.9810	2158.48	4676.71	56120.48
Step M	27.6473	2211.78	4792.20	57506.38
Step N	28.3300	2266.40	4910.53	58926.40
Step O	29.0297	2322.38	5031.81	60381.78



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4020B	Laboratory Technician II-B	Step A	22.6761	1814.09	3930.52	47166.29
		Step B	23.2360	1858.88	4027.57	48330.88
		Step C	23.8098	1904.78	4127.03	49524.38
		Step D	24.3978	1951.82	4228.95	50747.42
		Step E	25.0004	2000.03	4333.40	52000.83
		Step F	25.6178	2049.42	4440.42	53285.02
		Step G	26.2504	2100.03	4550.07	54600.83
		Step H	26.8987	2151.90	4662.44	55949.30
		Step I	27.5629	2205.03	4777.57	57330.83
		Step J	28.2435	2259.48	4895.54	58746.48
		Step K	28.9411	2315.29	5016.46	60197.49
		Step L	29.6558	2372.46	5140.34	61684.06
		Step M	30.3882	2431.06	5267.29	63207.46
		Step N	31.1386	2491.09	5397.36	64768.29
		Step O	31.9076	2552.61	5530.65	66367.81



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4151B	Librarian I-B	Step A	24.9188	1993.50	4319.26	51831.10
		Step B	25.5341	2042.73	4425.91	53110.93
		Step C	26.1647	2093.18	4535.21	54422.58
		Step D	26.8109	2144.87	4647.22	55766.67
		Step E	27.4729	2197.83	4761.97	57143.63
		Step F	28.1514	2252.11	4879.58	58554.91
		Step G	28.8467	2307.74	5000.09	60001.14
		Step H	29.5590	2364.72	5123.56	61482.72
		Step I	30.2890	2423.12	5250.09	63001.12
		Step J	31.0370	2482.96	5379.75	64556.96
		Step K	31.8034	2544.27	5512.59	66151.07
		Step L	32.5888	2607.10	5648.73	67784.70
		Step M	33.3936	2671.49	5788.22	69458.69
		Step N	34.2183	2737.46	5931.17	71174.06
		Step O	35.0634	2805.07	6077.66	72931.87



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4152B	Librarian II-B	Step A	27.4106	2192.85	4751.17	57014.05
		Step B	28.0876	2247.01	4868.52	58422.21
		Step C	28.7812	2302.50	4988.74	59864.90
		Step D	29.4919	2359.35	5111.93	61343.15
		Step E	30.2203	2417.62	5238.19	62858.22
		Step F	30.9665	2477.32	5367.53	64410.32
		Step G	31.7313	2538.50	5500.09	66001.10
		Step H	32.5149	2601.19	5635.92	67630.99
		Step I	33.3179	2665.43	5775.10	69301.23
		Step J	34.1407	2731.26	5917.72	71012.66
		Step K	34.9838	2798.70	6063.86	72766.30
		Step L	35.8477	2867.82	6213.60	74563.22
		Step M	36.7330	2938.64	6367.05	76404.64
		Step N	37.6402	3011.22	6524.30	78291.62
		Step O	38.5697	3085.58	6685.41	80224.98



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4200B	Library Assistant I-B	Step A	16.7201	1337.61	2898.15	34777.81
		Step B	17.1330	1370.64	2969.72	35636.64
		Step C	17.5561	1404.49	3043.06	36516.69
		Step D	17.9896	1439.17	3118.20	37418.37
		Step E	18.4339	1474.71	3195.21	38342.51
		Step F	18.8891	1511.13	3274.11	39289.33
		Step G	19.3557	1548.46	3354.99	40259.86
		Step H	19.8336	1586.69	3437.82	41253.89
		Step I	20.3235	1625.88	3522.74	42272.88
		Step J	20.8253	1666.02	3609.72	43316.62
		Step K	21.3396	1707.17	3698.86	44386.37
		Step L	21.8665	1749.32	3790.19	45482.32
		Step M	22.4066	1792.53	3883.81	46605.73
		Step N	22.9599	1836.79	3979.72	47756.59
		Step O	23.5270	1882.16	4078.01	48936.16



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4210B	Library Assistant II-B	Step A	18.3922	1471.38	3187.98	38255.78
		Step B	18.8463	1507.70	3266.69	39200.30
		Step C	19.3117	1544.94	3347.36	40168.34
		Step D	19.7887	1583.10	3430.04	41160.50
		Step E	20.2773	1622.18	3514.73	42176.78
		Step F	20.7781	1662.25	3601.54	43218.45
		Step G	21.2912	1703.30	3690.47	44285.70
		Step H	21.8170	1745.36	3781.61	45379.36
		Step I	22.3558	1788.46	3875.01	46500.06
		Step J	22.9079	1832.63	3970.70	47648.43
		Step K	23.4735	1877.88	4068.74	48824.88
		Step L	24.0533	1924.26	4169.24	50030.86
		Step M	24.6473	1971.78	4272.20	51266.38
		Step N	25.2560	2020.48	4377.71	52532.48
		Step O	25.8797	2070.38	4485.81	53829.78



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4250B	Library Technician-B	Step A	22.4803	1798.42	3896.59	46759.02
		Step B	23.0355	1842.84	3992.82	47913.84
		Step C	23.6044	1888.35	4091.43	49097.15
		Step D	24.1873	1934.98	4192.47	50309.58
		Step E	24.7846	1982.77	4296.00	51551.97
		Step F	25.3966	2031.73	4402.08	52824.93
		Step G	26.0238	2081.90	4510.79	54129.50
		Step H	26.6665	2133.32	4622.19	55466.32
		Step I	27.3250	2186.00	4736.33	56836.00
		Step J	27.9999	2239.99	4853.32	58239.79
		Step K	28.6913	2295.30	4973.16	59677.90
		Step L	29.3999	2351.99	5095.98	61151.79
		Step M	30.1260	2410.08	5221.84	62662.08
		Step N	30.8699	2469.59	5350.78	64209.39
		Step O	31.6323	2530.58	5482.93	65795.18



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
4516B	Marketing and Communication Analyst I-B	Step A	28.8658	2309.26	5003.41	60040.86
		Step B	29.5787	2366.30	5126.97	61523.70
		Step C	30.3091	2424.73	5253.58	63042.93
		Step D	31.0576	2484.61	5383.32	64599.81
		Step E	31.8247	2545.98	5516.28	66195.38
		Step F	32.6106	2608.85	5652.50	67830.05
		Step G	33.4159	2673.27	5792.09	69505.07
		Step H	34.2411	2739.29	5935.12	71221.49
		Step I	35.0867	2806.94	6081.69	72980.34
		Step J	35.9532	2876.26	6231.89	74782.66
		Step K	36.8410	2947.28	6385.77	76629.28
		Step L	37.7509	3020.07	6543.49	78521.87
		Step M	38.6831	3094.65	6705.07	80460.85
		Step N	39.6385	3171.08	6870.67	82448.08
		Step O	40.6174	3249.39	7040.35	84484.19



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
4517B	Marketing and Communication Analyst II-B	Step A	31.7524	2540.19	5503.75	66044.99
		Step B	32.5365	2602.92	5639.66	67675.92
		Step C	33.3401	2667.21	5778.95	69347.41
		Step D	34.1634	2733.07	5921.66	71059.87
		Step E	35.0071	2800.57	6067.90	72814.77
		Step F	35.8716	2869.73	6217.74	74612.93
		Step G	36.7575	2940.60	6371.30	76455.60
		Step H	37.6652	3013.22	6528.63	78343.62
		Step I	38.5954	3087.63	6689.87	80278.43
		Step J	39.5485	3163.88	6855.07	82260.88
		Step K	40.5252	3242.02	7024.37	84292.42
		Step L	41.5260	3322.08	7197.84	86374.08
		Step M	42.5515	3404.12	7375.59	88507.12
		Step N	43.6023	3488.18	7557.73	90692.78
		Step O	44.6791	3574.33	7744.38	92932.53



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4500B	Mechanic I-B	Step A	23.5776	1886.21	4086.78	49041.41
		Step B	24.1598	1932.78	4187.70	50252.38
		Step C	24.7564	1980.51	4291.11	51493.31
		Step D	25.3678	2029.42	4397.09	52765.02
		Step E	25.9942	2079.54	4505.66	54067.94
		Step F	26.6362	2130.90	4616.94	55403.30
		Step G	27.2939	2183.51	4730.94	56771.31
		Step H	27.9680	2237.44	4847.79	58173.44
		Step I	28.6587	2292.70	4967.51	59610.10
		Step J	29.3665	2349.32	5090.19	61082.32
		Step K	30.0917	2407.34	5215.89	62590.74
		Step L	30.8348	2466.78	5344.70	64136.38
		Step M	31.5963	2527.70	5476.69	65720.30
		Step N	32.3766	2590.13	5611.94	67343.33
		Step O	33.1761	2654.09	5750.52	69006.29



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4501B	Mechanic II-B	Step A	25.9353	2074.82	4495.45	53945.42
		Step B	26.5757	2126.06	4606.45	55277.46
		Step C	27.2320	2178.56	4720.21	56642.56
		Step D	27.9046	2232.37	4836.80	58041.57
		Step E	28.5937	2287.50	4956.24	59474.90
		Step F	29.2999	2343.99	5078.65	60943.79
		Step G	30.0233	2401.86	5204.04	62448.46
		Step H	30.7648	2461.18	5332.57	63990.78
		Step I	31.5246	2521.97	5464.26	65571.17
		Step J	32.3030	2584.24	5599.19	67190.24
		Step K	33.1008	2648.06	5737.47	68849.66
		Step L	33.9182	2713.46	5879.15	70549.86
		Step M	34.7558	2780.46	6024.34	72292.06
		Step N	35.6142	2849.14	6173.13	74077.54
		Step O	36.4937	2919.50	6325.57	75906.90



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4540B	Meter Reader-B	Step A	18.5403	1483.22	3213.65	38563.82
		Step B	18.9982	1519.86	3293.02	39516.26
		Step C	19.4673	1557.38	3374.33	40491.98
		Step D	19.9480	1595.84	3457.65	41491.84
		Step E	20.4406	1635.25	3543.04	42516.45
		Step F	20.9454	1675.63	3630.54	43566.43
		Step G	21.4627	1717.02	3720.20	44642.42
		Step H	21.9928	1759.42	3812.09	45745.02
		Step I	22.5358	1802.86	3906.21	46874.46
		Step J	23.0924	1847.39	4002.68	48032.19
		Step K	23.6626	1893.01	4101.52	49218.21
		Step L	24.2471	1939.77	4202.83	50433.97
		Step M	24.8458	1987.66	4306.61	51679.26
		Step N	25.4594	2036.75	4412.96	52955.55
		Step O	26.0882	2087.06	4521.95	54263.46



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4534B	Meter Service Worker-B	Step A	19.4673	1557.38	3374.33	40491.98
		Step B	19.9480	1595.84	3457.65	41491.84
		Step C	20.4406	1635.25	3543.04	42516.45
		Step D	20.9454	1675.63	3630.54	43566.43
		Step E	21.4627	1717.02	3720.20	44642.42
		Step F	21.9927	1759.42	3812.07	45744.82
		Step G	22.5358	1802.86	3906.21	46874.46
		Step H	23.0923	1847.38	4002.67	48031.98
		Step I	23.6626	1893.01	4101.52	49218.21
		Step J	24.2470	1939.76	4202.81	50433.76
		Step K	24.8458	1987.66	4306.61	51679.26
		Step L	25.4594	2036.75	4412.96	52955.55
		Step M	26.0881	2087.05	4521.94	54263.25
		Step N	26.7324	2138.59	4633.62	55603.39
		Step O	27.3926	2191.41	4748.05	56976.61



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9555B	Natural Resources Specialist I-B	Step A	24.0584	1924.67	4170.12	50041.47
		Step B	24.6523	1972.18	4273.07	51276.78
		Step C	25.2612	2020.90	4378.61	52543.30
		Step D	25.8850	2070.80	4486.73	53840.80
		Step E	26.5242	2121.94	4597.53	55170.34
		Step F	27.1793	2174.34	4711.08	56532.94
		Step G	27.8504	2228.03	4827.40	57928.83
		Step H	28.5382	2283.06	4946.62	59359.46
		Step I	29.2430	2339.44	5068.79	60825.44
		Step J	29.9652	2397.22	5193.97	62327.62
		Step K	30.7052	2456.42	5322.23	63866.82
		Step L	31.4635	2517.08	5453.67	65444.08
		Step M	32.2405	2579.24	5588.35	67060.24
		Step N	33.0367	2642.94	5726.36	68716.34
		Step O	33.8525	2708.20	5867.77	70413.20



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9545B	Natural Resources Specialist II-B	Step A	26.4642	2117.14	4587.13	55045.54
		Step B	27.1176	2169.41	4700.38	56404.61
		Step C	27.7873	2222.98	4816.47	57797.58
		Step D	28.4736	2277.89	4935.42	59225.09
		Step E	29.1766	2334.13	5057.28	60687.33
		Step F	29.8972	2391.78	5182.18	62186.18
		Step G	30.6355	2450.84	5310.15	63721.84
		Step H	31.3921	2511.37	5441.30	65295.57
		Step I	32.1674	2573.39	5575.68	66908.19
		Step J	32.9618	2636.94	5713.38	68560.54
		Step K	33.7757	2702.06	5854.45	70253.46
		Step L	34.6099	2768.79	5999.05	71988.59
		Step M	35.4645	2837.16	6147.18	73766.16
		Step N	36.3403	2907.22	6298.99	75587.82
		Step O	37.2378	2979.02	6454.55	77454.62



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4870B	Natural Resources Worker I-B	Step A	18.9768	1518.14	3289.31	39471.74
		Step B	19.4454	1555.63	3370.54	40446.43
		Step C	19.9257	1594.06	3453.79	41445.46
		Step D	20.4178	1633.42	3539.09	42469.02
		Step E	20.9220	1673.76	3626.48	43517.76
		Step F	21.4386	1715.09	3716.02	44592.29
		Step G	21.9681	1757.45	3807.80	45693.65
		Step H	22.5105	1800.84	3901.82	46821.84
		Step I	23.0665	1845.32	3998.19	47978.32
		Step J	23.6362	1890.90	4096.94	49163.30
		Step K	24.2199	1937.59	4198.12	50377.39
		Step L	24.8180	1985.44	4301.79	51621.44
		Step M	25.4309	2034.47	4408.02	52896.27
		Step N	26.0589	2084.71	4516.88	54202.51
		Step O	26.7024	2136.19	4628.42	55540.99



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4872B	Natural Resources Worker II-B	Step A	20.8748	1669.98	3618.30	43419.58
		Step B	21.3902	1711.22	3707.63	44491.62
		Step C	21.9184	1753.47	3799.19	45590.27
		Step D	22.4597	1796.78	3893.01	46716.18
		Step E	23.0144	1841.15	3989.16	47869.95
		Step F	23.5827	1886.62	4087.67	49052.02
		Step G	24.1651	1933.21	4188.62	50263.41
		Step H	24.7619	1980.95	4292.06	51504.75
		Step I	25.3735	2029.88	4398.07	52776.88
		Step J	26.0000	2080.00	4506.67	54080.00
		Step K	26.6421	2131.37	4617.96	55415.57
		Step L	27.3000	2184.00	4732.00	56784.00
		Step M	27.9743	2237.94	4848.88	58186.54
		Step N	28.6650	2293.20	4968.60	59623.20
		Step O	29.3729	2349.83	5091.30	61095.63



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Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4956B	Office Assistant I-B	Step A	16.0379	1283.03	2779.90	33358.83
		Step B	16.4339	1314.71	2848.54	34182.51
		Step C	16.8397	1347.18	2918.88	35026.58
		Step D	17.2556	1380.45	2990.97	35891.65
		Step E	17.6818	1414.54	3064.85	36778.14
		Step F	18.1184	1449.47	3140.52	37686.27
		Step G	18.5658	1485.26	3218.07	38616.86
		Step H	19.0243	1521.94	3297.55	39570.54
		Step I	19.4941	1559.53	3378.98	40547.73
		Step J	19.9755	1598.04	3462.42	41549.04
		Step K	20.4689	1637.51	3547.94	42575.31
		Step L	20.9743	1677.94	3635.55	43626.54
		Step M	21.4924	1719.39	3725.35	44704.19
		Step N	22.0231	1761.85	3817.34	45808.05
		Step O	22.5669	1805.35	3911.60	46939.15



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
4957B	Office Assistant II-B	Step A	17.6416	1411.33	3057.88	36694.53
		Step B	18.0772	1446.18	3133.38	37600.58
		Step C	18.5237	1481.90	3210.77	38529.30
		Step D	18.9811	1518.49	3290.06	39480.69
		Step E	19.4498	1555.98	3371.30	40455.58
		Step F	19.9301	1594.41	3454.55	41454.61
		Step G	20.4224	1633.79	3539.88	42478.59
		Step H	20.9267	1674.14	3627.29	43527.54
		Step I	21.4435	1715.48	3716.87	44602.48
		Step J	21.9731	1757.85	3808.67	45704.05
		Step K	22.5156	1801.25	3902.70	46832.45
		Step L	23.0717	1845.74	3999.09	47989.14
		Step M	23.6415	1891.32	4097.86	49174.32
		Step N	24.2254	1938.03	4199.07	50388.83
		Step O	24.8236	1985.89	4302.76	51633.09



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1028B	Organics Truck Driver-B	Step A	23.6603	1892.82	4101.12	49213.42
		Step B	24.2445	1939.56	4202.38	50428.56
		Step C	24.8432	1987.46	4306.15	51673.86
		Step D	25.4568	2036.54	4412.51	52950.14
		Step E	26.0854	2086.83	4521.47	54257.63
		Step F	26.7296	2138.37	4633.13	55597.57
		Step G	27.3897	2191.18	4747.55	56970.58
		Step H	28.0661	2245.29	4864.79	58377.49
		Step I	28.7592	2300.74	4984.93	59819.14
		Step J	29.4694	2357.55	5108.03	61296.35
		Step K	30.1972	2415.78	5234.18	62810.18
		Step L	30.9429	2475.43	5363.44	64361.23
		Step M	31.7071	2536.57	5495.90	65950.77
		Step N	32.4901	2599.21	5631.62	67579.41
		Step O	33.2925	2663.40	5770.70	69248.40



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5070B	Parks Maintenance Worker I-B	Step A	18.0732	1445.86	3132.69	37592.26
		Step B	18.5196	1481.57	3210.06	38520.77
		Step C	18.9768	1518.14	3289.31	39471.74
		Step D	19.4455	1555.64	3370.55	40446.64
		Step E	19.9258	1594.06	3453.81	41445.66
		Step F	20.4178	1633.42	3539.09	42469.02
		Step G	20.9221	1673.77	3626.50	43517.97
		Step H	21.4387	1715.10	3716.04	44592.50
		Step I	21.9682	1757.46	3807.82	45693.86
		Step J	22.5106	1800.85	3901.84	46822.05
		Step K	23.0665	1845.32	3998.19	47978.32
		Step L	23.6363	1890.90	4096.96	49163.50
		Step M	24.2200	1937.60	4198.13	50377.60
		Step N	24.8181	1985.45	4301.80	51621.65
		Step O	25.4310	2034.48	4408.04	52896.48



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
5080B	Parks Maintenance Worker II-B	Step A	19.8807	1590.46	3445.99	41351.86
		Step B	20.3716	1629.73	3531.08	42372.93
		Step C	20.8748	1669.98	3618.30	43419.58
		Step D	21.3903	1711.22	3707.65	44491.82
		Step E	21.9184	1753.47	3799.19	45590.27
		Step F	22.4598	1796.78	3893.03	46716.38
		Step G	23.0144	1841.15	3989.16	47869.95
		Step H	23.5827	1886.62	4087.67	49052.02
		Step I	24.1651	1933.21	4188.62	50263.41
		Step J	24.7619	1980.95	4292.06	51504.75
		Step K	25.3735	2029.88	4398.07	52776.88
		Step L	26.0001	2080.01	4506.68	54080.21
		Step M	26.6421	2131.37	4617.96	55415.57
		Step N	27.3000	2184.00	4732.00	56784.00
		Step O	27.9743	2237.94	4848.88	58186.54



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1278B	Parks Project Technician-B	Step A	25.2065	2016.52	4369.13	52429.52
		Step B	25.8289	2066.31	4477.01	53724.11
		Step C	26.4667	2117.34	4587.56	55050.74
		Step D	27.1203	2169.62	4700.85	56410.22
		Step E	27.7901	2223.21	4816.95	57803.41
		Step F	28.4764	2278.11	4935.91	59230.91
		Step G	29.1796	2334.37	5057.80	60693.57
		Step H	29.9002	2392.02	5182.70	62192.42
		Step I	30.6386	2451.09	5310.69	63728.29
		Step J	31.3952	2511.62	5441.83	65302.02
		Step K	32.1705	2573.64	5576.22	66914.64
		Step L	32.9650	2637.20	5713.93	68567.20
		Step M	33.7791	2702.33	5855.04	70260.53
		Step N	34.6133	2769.06	5999.64	71995.66
		Step O	35.4681	2837.45	6147.80	73773.65



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9556B	Parks Recreation and Libraries Coordinator I-B	Step A	22.2712	1781.70	3860.34	46324.10
		Step B	22.8212	1825.70	3955.67	47468.10
		Step C	23.3849	1870.79	4053.38	48640.59
		Step D	23.9623	1916.98	4153.47	49841.58
		Step E	24.5541	1964.33	4256.04	51072.53
		Step F	25.1605	2012.84	4361.15	52333.84
		Step G	25.7819	2062.55	4468.86	53626.35
		Step H	26.4186	2113.49	4579.22	54950.69
		Step I	27.0710	2165.68	4692.31	56307.68
		Step J	27.7395	2219.16	4808.18	57698.16
		Step K	28.4245	2273.96	4926.91	59122.96
		Step L	29.1265	2330.12	5048.59	60583.12
		Step M	29.8458	2387.66	5173.27	62079.26
		Step N	30.5828	2446.62	5301.02	63612.22
		Step O	31.3380	2507.04	5431.92	65183.04



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LO39 Stationary Engineers Local 39
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Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	24.4984	1959.87	4246.39	50956.67
Step B	25.1034	2008.27	4351.26	52215.07
Step C	25.7233	2057.86	4458.71	53504.46
Step D	26.3586	2108.69	4568.82	54825.89
Step E	27.0096	2160.77	4681.66	56179.97
Step F	27.6765	2214.12	4797.26	57567.12
Step G	28.3600	2268.80	4915.73	58988.80
Step H	29.0604	2324.83	5037.14	60445.63
Step I	29.7780	2382.24	5161.52	61938.24
Step J	30.5135	2441.08	5289.01	63468.08
Step K	31.2669	2501.35	5419.60	65035.15
Step L	32.0391	2563.13	5553.44	66641.33
Step M	32.8303	2626.42	5690.59	68287.02
Step N	33.6411	2691.29	5831.12	69973.49
Step O	34.4719	2757.75	5975.13	71701.55



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5045B	Parks Recreation and Libraries Technician-B	Step A	24.0928	1927.42	4176.09	50113.02
		Step B	24.6877	1975.02	4279.20	51350.42
		Step C	25.2974	2023.79	4384.88	52618.59
		Step D	25.9221	2073.77	4493.16	53917.97
		Step E	26.5623	2124.98	4604.13	55249.58
		Step F	27.2182	2177.46	4717.82	56613.86
		Step G	27.8904	2231.23	4834.34	58012.03
		Step H	28.5792	2286.34	4953.73	59444.74
		Step I	29.2850	2342.80	5076.07	60912.80
		Step J	30.0081	2400.65	5201.40	62416.85
		Step K	30.7493	2459.94	5329.88	63958.54
		Step L	31.5087	2520.70	5461.51	65538.10
		Step M	32.2867	2582.94	5596.36	67156.34
		Step N	33.0841	2646.73	5734.58	68814.93
		Step O	33.9011	2712.09	5876.19	70514.29



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9548B	Passport/Livescan Agent-B	Step A	16.0379	1283.03	2779.90	33358.83
		Step B	16.4339	1314.71	2848.54	34182.51
		Step C	16.8397	1347.18	2918.88	35026.58
		Step D	17.2556	1380.45	2990.97	35891.65
		Step E	17.6818	1414.54	3064.85	36778.14
		Step F	18.1184	1449.47	3140.52	37686.27
		Step G	18.5658	1485.26	3218.07	38616.86
		Step H	19.0243	1521.94	3297.55	39570.54
		Step I	19.4941	1559.53	3378.98	40547.73
		Step J	19.9755	1598.04	3462.42	41549.04
		Step K	20.4689	1637.51	3547.94	42575.31
		Step L	20.9743	1677.94	3635.55	43626.54
		Step M	21.4924	1719.39	3725.35	44704.19
		Step N	22.0231	1761.85	3817.34	45808.05
		Step O	22.5669	1805.35	3911.60	46939.15



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5277B	Permit Technician I-B	Step A	21.1034	1688.27	3657.92	43895.07
		Step B	21.6246	1729.97	3748.26	44979.17
		Step C	22.1586	1772.69	3840.82	46089.89
		Step D	22.7059	1816.47	3935.69	47228.27
		Step E	23.2666	1861.33	4032.88	48394.53
		Step F	23.8411	1907.29	4132.46	49589.49
		Step G	24.4299	1954.39	4234.52	50814.19
		Step H	25.0332	2002.66	4339.09	52069.06
		Step I	25.6514	2052.11	4446.24	53354.91
		Step J	26.2848	2102.78	4556.03	54672.38
		Step K	26.9340	2154.72	4668.56	56022.72
		Step L	27.5991	2207.93	4783.84	57406.13
		Step M	28.2807	2262.46	4901.99	58823.86
		Step N	28.9792	2318.34	5023.06	60276.74
		Step O	29.6948	2375.58	5147.10	61765.18



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5279B	Permit Technician II-B	Step A	23.2137	1857.10	4023.71	48284.50
		Step B	23.7871	1902.97	4123.10	49477.17
		Step C	24.3745	1949.96	4224.91	50698.96
		Step D	24.9764	1998.11	4329.24	51950.91
		Step E	25.5932	2047.46	4436.15	53233.86
		Step F	26.2253	2098.02	4545.72	54548.62
		Step G	26.8729	2149.83	4657.97	55895.63
		Step H	27.5365	2202.92	4772.99	57275.92
		Step I	28.2165	2257.32	4890.86	58690.32
		Step J	28.9134	2313.07	5011.66	60139.87
		Step K	29.6274	2370.19	5135.42	61624.99
		Step L	30.3590	2428.72	5262.23	63146.72
		Step M	31.1088	2488.70	5392.19	64706.30
		Step N	31.8771	2550.17	5525.36	66304.37
		Step O	32.6642	2613.14	5661.79	67941.54



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
5560B	Project Coordinator-B	Step A	31.4923	2519.38	5458.67	65503.98
		Step B	32.2701	2581.61	5593.48	67121.81
		Step C	33.0670	2645.36	5731.61	68779.36
		Step D	33.8836	2710.69	5873.16	70477.89
		Step E	34.7203	2777.62	6018.19	72218.22
		Step F	35.5779	2846.23	6166.84	74002.03
		Step G	36.4564	2916.51	6319.11	75829.31
		Step H	37.3567	2988.54	6475.16	77701.94
		Step I	38.2792	3062.34	6635.06	79620.74
		Step J	39.2246	3137.97	6798.93	81587.17
		Step K	40.1933	3215.46	6966.84	83602.06
		Step L	41.1858	3294.86	7138.87	85666.46
		Step M	42.2030	3376.24	7315.19	87782.24
		Step N	43.2452	3459.62	7495.83	89950.02
		Step O	44.3131	3545.05	7680.94	92171.25



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8304B	Recreation Leader-B	Step A	17.6416	1411.33	3057.88	36694.53
		Step B	18.0772	1446.18	3133.38	37600.58
		Step C	18.5237	1481.90	3210.77	38529.30
		Step D	18.9811	1518.49	3290.06	39480.69
		Step E	19.4498	1555.98	3371.30	40455.58
		Step F	19.9301	1594.41	3454.55	41454.61
		Step G	20.4224	1633.79	3539.88	42478.59
		Step H	20.9267	1674.14	3627.29	43527.54
		Step I	21.4435	1715.48	3716.87	44602.48
		Step J	21.9731	1757.85	3808.67	45704.05
		Step K	22.5156	1801.25	3902.70	46832.45
		Step L	23.0717	1845.74	3999.09	47989.14
		Step M	23.6415	1891.32	4097.86	49174.32
		Step N	24.2254	1938.03	4199.07	50388.83
		Step O	24.8236	1985.89	4302.76	51633.09



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
6150B	Recycling and Organics Coordinator-B	Step A	29.2044	2336.35	5062.10	60745.15
		Step B	29.9256	2394.05	5187.10	62245.25
		Step C	30.6646	2453.17	5315.20	63782.37
		Step D	31.4220	2513.76	5446.48	65357.76
		Step E	32.1979	2575.83	5580.97	66971.63
		Step F	32.9931	2639.45	5718.80	68625.65
		Step G	33.8079	2704.63	5860.04	70320.43
		Step H	34.6427	2771.42	6004.73	72056.82
		Step I	35.4983	2839.86	6153.04	73836.46
		Step J	36.3749	2909.99	6304.98	75659.79
		Step K	37.2732	2981.86	6460.69	77528.26
		Step L	38.1936	3055.49	6620.22	79442.69
		Step M	39.1368	3130.94	6783.71	81404.54
		Step N	40.1034	3208.27	6951.26	83415.07
		Step O	41.0937	3287.50	7122.91	85474.90



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6225B	Refuse Maintenance Worker I-B	Step A	17.6938	1415.50	3066.93	36803.10
		Step B	18.1308	1450.46	3142.67	37712.06
		Step C	18.5785	1486.28	3220.27	38643.28
		Step D	19.0373	1522.98	3299.80	39597.58
		Step E	19.5075	1560.60	3381.30	40575.60
		Step F	19.9892	1599.14	3464.79	41577.54
		Step G	20.4829	1638.63	3550.37	42604.43
		Step H	20.9887	1679.10	3638.04	43656.50
		Step I	21.5070	1720.56	3727.88	44734.56
		Step J	22.0381	1763.05	3819.94	45839.25
		Step K	22.5823	1806.58	3914.27	46971.18
		Step L	23.1401	1851.21	4010.95	48131.41
		Step M	23.7115	1896.92	4109.99	49319.92
		Step N	24.2971	1943.77	4211.50	50537.97
		Step O	24.8971	1991.77	4315.50	51785.97



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6226B	Refuse Maintenance Worker II-B	Step A	19.0142	1521.14	3295.79	39549.54
		Step B	19.4838	1558.70	3377.19	40526.30
		Step C	19.9649	1597.19	3460.58	41526.99
		Step D	20.4580	1636.64	3546.05	42552.64
		Step E	20.9632	1677.06	3633.62	43603.46
		Step F	21.4808	1718.46	3723.34	44680.06
		Step G	22.0113	1760.90	3815.29	45783.50
		Step H	22.5549	1804.39	3909.52	46914.19
		Step I	23.1119	1848.95	4006.06	48072.75
		Step J	23.6827	1894.62	4105.00	49260.02
		Step K	24.2675	1941.40	4206.37	50476.40
		Step L	24.8668	1989.34	4310.25	51722.94
		Step M	25.4809	2038.47	4416.69	53000.27
		Step N	26.1102	2088.82	4525.77	54309.22
		Step O	26.7550	2140.40	4637.53	55650.40



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6302B	Refuse Truck Driver I-B	Step A	20.5637	1645.10	3564.37	42772.50
		Step B	21.0715	1685.72	3652.39	43828.72
		Step C	21.5919	1727.35	3742.60	44911.15
		Step D	22.1251	1770.01	3835.02	46020.21
		Step E	22.6715	1813.72	3929.73	47156.72
		Step F	23.2314	1858.51	4026.78	48321.31
		Step G	23.8051	1904.41	4126.22	49514.61
		Step H	24.3929	1951.43	4228.10	50737.23
		Step I	24.9954	1999.63	4332.54	51990.43
		Step J	25.6127	2049.02	4439.53	53274.42
		Step K	26.2452	2099.62	4549.17	54590.02
		Step L	26.8933	2151.46	4661.51	55938.06
		Step M	27.5574	2204.59	4776.62	57319.39
		Step N	28.2379	2259.03	4894.57	58734.83
		Step O	28.9353	2314.82	5015.45	60185.42



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Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
6304B	Refuse Truck Driver II-B	Step A	22.5335	1802.68	3905.81	46869.68
		Step B	23.0900	1847.20	4002.27	48027.20
		Step C	23.6602	1892.82	4101.10	49213.22
		Step D	24.2445	1939.56	4202.38	50428.56
		Step E	24.8433	1987.46	4306.17	51674.06
		Step F	25.4568	2036.54	4412.51	52950.14
		Step G	26.0854	2086.83	4521.47	54257.63
		Step H	26.7297	2138.38	4633.15	55597.78
		Step I	27.3897	2191.18	4747.55	56970.58
		Step J	28.0661	2245.29	4864.79	58377.49
		Step K	28.7593	2300.74	4984.95	59819.34
		Step L	29.4695	2357.56	5108.05	61296.56
		Step M	30.1973	2415.78	5234.20	62810.38
		Step N	30.9430	2475.44	5363.45	64361.44
		Step O	31.7071	2536.57	5495.90	65950.77



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7117B	Senior Building Inspector-B	Step A	32.7794	2622.35	5681.76	68181.15
		Step B	33.5889	2687.11	5822.08	69864.91
		Step C	34.4183	2753.46	5965.84	71590.06
		Step D	35.2683	2821.46	6113.17	73358.06
		Step E	36.1393	2891.14	6264.15	75169.74
		Step F	37.0318	2962.54	6418.85	77026.14
		Step G	37.9463	3035.70	6577.36	78928.30
		Step H	38.8834	3110.67	6739.79	80877.47
		Step I	39.8436	3187.49	6906.22	82874.69
		Step J	40.8276	3266.21	7076.78	84921.41
		Step K	41.8359	3346.87	7251.56	87018.67
		Step L	42.8690	3429.52	7430.63	89167.52
		Step M	43.9277	3514.22	7614.13	91369.62
		Step N	45.0124	3600.99	7802.15	93625.79
		Step O	46.1240	3689.92	7994.83	95937.92



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7119B	Senior Building Maintenance Worker-B	Step A	27.1379	2171.03	4703.90	56446.83
		Step B	27.8080	2224.64	4820.05	57840.64
		Step C	28.4948	2279.58	4939.10	59269.18
		Step D	29.1985	2335.88	5061.07	60732.88
		Step E	29.9195	2393.56	5186.05	62232.56
		Step F	30.6584	2452.67	5314.12	63769.47
		Step G	31.4155	2513.24	5445.35	65344.24
		Step H	32.1914	2575.31	5579.84	66958.11
		Step I	32.9863	2638.90	5717.63	68611.50
		Step J	33.8009	2704.07	5858.82	70305.87
		Step K	34.6357	2770.86	6003.52	72042.26
		Step L	35.4910	2839.28	6151.77	73821.28
		Step M	36.3674	2909.39	6303.68	75644.19
		Step N	37.2655	2981.24	6459.35	77512.24
		Step O	38.1859	3054.87	6618.89	79426.67



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7195B	Senior Building Plans Examiner-B	Step A	31.9246	2553.97	5533.60	66403.17
		Step B	32.7130	2617.04	5670.25	68043.04
		Step C	33.5208	2681.66	5810.27	69723.26
		Step D	34.3487	2747.90	5953.77	71445.30
		Step E	35.1969	2815.75	6100.80	73209.55
		Step F	36.0661	2885.29	6251.46	75017.49
		Step G	36.9568	2956.54	6405.85	76870.14
		Step H	37.8694	3029.55	6564.03	78768.35
		Step I	38.8046	3104.37	6726.13	80713.57
		Step J	39.7629	3181.03	6892.24	82706.83
		Step K	40.7449	3259.59	7062.45	84749.39
		Step L	41.7511	3340.09	7236.86	86842.29
		Step M	42.7821	3422.57	7415.56	88986.77
		Step N	43.8387	3507.10	7598.71	91184.50
		Step O	44.9213	3593.70	7786.36	93436.30



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7139B	Senior Buyer-B	Step A	28.7803	2302.42	4988.59	59863.02
		Step B	29.4910	2359.28	5111.77	61341.28
		Step C	30.2193	2417.54	5238.01	62856.14
		Step D	30.9655	2477.24	5367.35	64408.24
		Step E	31.7302	2538.42	5499.90	65998.82
		Step F	32.5139	2601.11	5635.74	67628.91
		Step G	33.3168	2665.34	5774.91	69298.94
		Step H	34.1396	2731.17	5917.53	71010.37
		Step I	34.9827	2798.62	6063.67	72764.02
		Step J	35.8465	2867.72	6213.39	74560.72
		Step K	36.7318	2938.54	6366.85	76402.14
		Step L	37.6390	3011.12	6524.09	78289.12
		Step M	38.5684	3085.47	6685.19	80222.27
		Step N	39.5209	3161.67	6850.29	82203.47
		Step O	40.4969	3239.75	7019.46	84233.55



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Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7134B	Senior Code Enforcement Inspector-B	Step A	30.7018	2456.14	5321.65	63859.74
		Step B	31.4599	2516.79	5453.05	65436.59
		Step C	32.2368	2578.94	5587.71	67052.54
		Step D	33.0330	2642.64	5725.72	68708.64
		Step E	33.8487	2707.90	5867.11	70405.30
		Step F	34.6846	2774.77	6012.00	72143.97
		Step G	35.5411	2843.29	6160.46	73925.49
		Step H	36.4188	2913.50	6312.59	75751.10
		Step I	37.3183	2985.46	6468.51	77622.06
		Step J	38.2399	3059.19	6628.25	79538.99
		Step K	39.1842	3134.74	6791.93	81503.14
		Step L	40.1518	3212.14	6959.65	83515.74
		Step M	41.1434	3291.47	7131.52	85578.27
		Step N	42.1595	3372.76	7307.65	87691.76
		Step O	43.2006	3456.05	7488.10	89857.25



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Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7121B	Senior Construction Inspector-B	Step A	31.4923	2519.38	5458.67	65503.98
		Step B	32.2701	2581.61	5593.48	67121.81
		Step C	33.0670	2645.36	5731.61	68779.36
		Step D	33.8836	2710.69	5873.16	70477.89
		Step E	34.7203	2777.62	6018.19	72218.22
		Step F	35.5779	2846.23	6166.84	74002.03
		Step G	36.4564	2916.51	6319.11	75829.31
		Step H	37.3567	2988.54	6475.16	77701.94
		Step I	38.2792	3062.34	6635.06	79620.74
		Step J	39.2246	3137.97	6798.93	81587.17
		Step K	40.1933	3215.46	6966.84	83602.06
		Step L	41.1858	3294.86	7138.87	85666.46
		Step M	42.2030	3376.24	7315.19	87782.24
		Step N	43.2452	3459.62	7495.83	89950.02
		Step O	44.3131	3545.05	7680.94	92171.25



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7144B	Senior Custodian-B	Step A	18.3574	1468.59	3181.95	38183.39
		Step B	18.8107	1504.86	3260.52	39126.26
		Step C	19.2753	1542.02	3341.05	40092.62
		Step D	19.7513	1580.10	3423.56	41082.70
		Step E	20.2391	1619.13	3508.11	42097.33
		Step F	20.7389	1659.11	3594.74	43136.91
		Step G	21.2510	1700.08	3683.51	44202.08
		Step H	21.7758	1742.06	3774.47	45293.66
		Step I	22.3136	1785.09	3867.69	46412.29
		Step J	22.8647	1829.18	3963.21	47558.58
		Step K	23.4292	1874.34	4061.06	48732.74
		Step L	24.0079	1920.63	4161.37	49936.43
		Step M	24.6007	1968.06	4264.12	51169.46
		Step N	25.2083	2016.66	4369.44	52433.26
		Step O	25.8308	2066.46	4477.34	53728.06



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7162B	Senior Engineering Technician-B	Step A	26.9480	2155.84	4670.99	56051.84
		Step B	27.6135	2209.08	4786.34	57436.08
		Step C	28.2955	2263.64	4904.55	58854.64
		Step D	28.9942	2319.54	5025.66	60307.94
		Step E	29.7102	2376.82	5149.77	61797.22
		Step F	30.4440	2435.52	5276.96	63323.52
		Step G	31.1957	2495.66	5407.25	64887.06
		Step H	31.9661	2557.29	5540.79	66489.49
		Step I	32.7556	2620.45	5677.64	68131.65
		Step J	33.5645	2685.16	5817.85	69814.16
		Step K	34.3934	2751.47	5961.52	71538.27
		Step L	35.2428	2819.42	6108.75	73305.02
		Step M	36.1131	2889.05	6259.60	75115.25
		Step N	37.0049	2960.39	6414.18	76970.19
		Step O	37.9188	3033.50	6572.59	78871.10



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7146B	Senior Finance Clerk-B	Step A	20.5953	1647.62	3569.85	42838.22
		Step B	21.1040	1688.32	3658.03	43896.32
		Step C	21.6251	1730.01	3748.35	44980.21
		Step D	22.1591	1772.73	3840.91	46090.93
		Step E	22.7064	1816.51	3935.78	47229.31
		Step F	23.2671	1861.37	4032.96	48395.57
		Step G	23.8417	1907.34	4132.56	49590.74
		Step H	24.4305	1954.44	4234.62	50815.44
		Step I	25.0338	2002.70	4339.19	52070.30
		Step J	25.6520	2052.16	4446.35	53356.16
		Step K	26.2855	2102.84	4556.15	54673.84
		Step L	26.9346	2154.77	4668.66	56023.97
		Step M	27.5998	2207.98	4783.97	57407.58
		Step N	28.2814	2262.51	4902.11	58825.31
		Step O	28.9798	2318.38	5023.17	60277.98



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7147B	Senior Finance Technician-B	Step A	23.6222	1889.78	4094.51	49134.18
		Step B	24.2056	1936.45	4195.64	50347.65
		Step C	24.8034	1984.27	4299.26	51591.07
		Step D	25.4159	2033.27	4405.42	52865.07
		Step E	26.0436	2083.49	4514.22	54170.69
		Step F	26.6867	2134.94	4625.69	55508.34
		Step G	27.3457	2187.66	4739.92	56879.06
		Step H	28.0211	2241.69	4856.99	58283.89
		Step I	28.7131	2297.05	4976.94	59723.25
		Step J	29.4222	2353.78	5099.85	61198.18
		Step K	30.1488	2411.90	5225.79	62709.50
		Step L	30.8933	2471.46	5354.84	64258.06
		Step M	31.6563	2532.50	5487.09	65845.10
		Step N	32.4380	2595.04	5622.59	67471.04
		Step O	33.2391	2659.13	5761.44	69137.33



City of Roseville

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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7148B	Senior Housing Technician-B	Step A	27.0589	2164.71	4690.21	56282.51
		Step B	27.7271	2218.17	4806.03	57672.37
		Step C	28.4118	2272.94	4924.71	59096.54
		Step D	29.1135	2329.08	5046.34	60556.08
		Step E	29.8324	2386.59	5170.95	62051.39
		Step F	30.5691	2445.53	5298.64	63583.73
		Step G	31.3240	2505.92	5429.49	65153.92
		Step H	32.0976	2567.81	5563.58	66763.01
		Step I	32.8904	2631.23	5701.00	68412.03
		Step J	33.7026	2696.21	5841.78	70101.41
		Step K	34.5349	2762.79	5986.05	71832.59
		Step L	35.3877	2831.02	6133.87	73606.42
		Step M	36.2617	2900.94	6285.36	75424.34
		Step N	37.1571	2972.57	6440.56	77286.77
		Step O	38.0747	3045.98	6599.61	79195.38



City of Roseville

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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7149B	Senior Information Technology Technician-B	Step A	26.8180	2145.44	4648.45	55781.44
		Step B	27.4802	2198.42	4763.23	57158.82
		Step C	28.1588	2252.70	4880.86	58570.30
		Step D	28.8542	2308.34	5001.39	60016.74
		Step E	29.5668	2365.34	5124.91	61498.94
		Step F	30.2969	2423.75	5251.46	63017.55
		Step G	31.0452	2483.62	5381.17	64574.02
		Step H	31.8118	2544.94	5514.05	66168.54
		Step I	32.5974	2607.79	5650.22	67802.59
		Step J	33.4024	2672.19	5789.75	69476.99
		Step K	34.2273	2738.18	5932.73	71192.78
		Step L	35.0725	2805.80	6079.23	72950.80
		Step M	35.9387	2875.10	6229.37	74752.50
		Step N	36.8262	2946.10	6383.21	76598.50
		Step O	37.7357	3018.86	6540.85	78490.26



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name				
		Hourly	Bi-Weekly	Monthly	Annual	
3733B	Senior Interpretive Services Specialist-B	Step A	26.9491	2155.93	4671.18	56054.13
		Step B	27.6146	2209.17	4786.53	57438.37
		Step C	28.2965	2263.72	4904.73	58856.72
		Step D	28.9953	2319.62	5025.85	60310.22
		Step E	29.7113	2376.90	5149.96	61799.50
		Step F	30.4451	2435.61	5277.15	63325.81
		Step G	31.1970	2495.76	5407.48	64889.76
		Step H	31.9674	2557.39	5541.02	66492.19
		Step I	32.7568	2620.54	5677.85	68134.14
		Step J	33.5658	2685.26	5818.07	69816.86
		Step K	34.3947	2751.58	5961.75	71540.98
		Step L	35.2441	2819.53	6108.98	73307.73
		Step M	36.1145	2889.16	6259.85	75118.16
		Step N	37.0064	2960.51	6414.44	76973.31
		Step O	37.9202	3033.62	6572.83	78874.02



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7189B	Senior Mechanic-B	Step A	28.5288	2282.30	4944.99	59339.90
		Step B	29.2334	2338.67	5067.12	60805.47
		Step C	29.9553	2396.42	5192.25	62307.02
		Step D	30.6950	2455.60	5320.47	63845.60
		Step E	31.4531	2516.25	5451.87	65422.45
		Step F	32.2298	2578.38	5586.50	67037.98
		Step G	33.0257	2642.06	5724.45	68693.46
		Step H	33.8413	2707.30	5865.83	70389.90
		Step I	34.6770	2774.16	6010.68	72128.16
		Step J	35.5334	2842.67	6159.12	73909.47
		Step K	36.4109	2912.87	6311.22	75734.67
		Step L	37.3101	2984.81	6467.08	77605.01
		Step M	38.2315	3058.52	6626.79	79521.52
		Step N	39.1756	3134.05	6790.44	81485.25
		Step O	40.1431	3211.45	6958.14	83497.65



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Appendix:F
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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7200B	Senior Meter Service Worker-B	Step A	21.4140	1713.12	3711.76	44541.12
		Step B	21.9428	1755.42	3803.42	45641.02
		Step C	22.4847	1798.78	3897.35	46768.18
		Step D	23.0400	1843.20	3993.60	47923.20
		Step E	23.6090	1888.72	4092.23	49106.72
		Step F	24.1920	1935.36	4193.28	50319.36
		Step G	24.7894	1983.15	4296.83	51561.95
		Step H	25.4016	2032.13	4402.94	52835.33
		Step I	26.0289	2082.31	4511.68	54140.11
		Step J	26.6717	2133.74	4623.09	55477.14
		Step K	27.3304	2186.43	4737.27	56847.23
		Step L	28.0054	2240.43	4854.27	58251.23
		Step M	28.6969	2295.75	4974.13	59689.55
		Step N	29.4056	2352.45	5096.97	61163.65
		Step O	30.1318	2410.54	5222.85	62674.14



City of Roseville

Salary Schedule: Stationary Engineers Local 39-B

Appendix:F
Effective Date:05/09/2020

LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7154B	Senior Natural Resources Worker-B	Step A	23.0144	1841.15	3989.16	47869.95
		Step B	23.5828	1886.62	4087.69	49052.22
		Step C	24.1651	1933.21	4188.62	50263.41
		Step D	24.7619	1980.95	4292.06	51504.75
		Step E	25.3735	2029.88	4398.07	52776.88
		Step F	26.0001	2080.01	4506.68	54080.21
		Step G	26.6421	2131.37	4617.96	55415.57
		Step H	27.3000	2184.00	4732.00	56784.00
		Step I	27.9743	2237.94	4848.88	58186.54
		Step J	28.6650	2293.20	4968.60	59623.20
		Step K	29.3729	2349.83	5091.30	61095.63
		Step L	30.0983	2407.86	5217.04	62604.46
		Step M	30.8417	2467.34	5345.89	64150.74
		Step N	31.6032	2528.26	5477.89	65734.66
		Step O	32.3837	2590.70	5613.17	67358.10



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7192B	Senior Parks Maintenance Worker-B	Step A	21.9184	1753.47	3799.19	45590.27
		Step B	22.4599	1796.79	3893.05	46716.59
		Step C	23.0145	1841.16	3989.18	47870.16
		Step D	23.5829	1886.63	4087.70	49052.43
		Step E	24.1652	1933.22	4188.63	50263.62
		Step F	24.7620	1980.96	4292.08	51504.96
		Step G	25.3736	2029.89	4398.09	52777.09
		Step H	26.0002	2080.02	4506.70	54080.42
		Step I	26.6422	2131.38	4617.98	55415.78
		Step J	27.3001	2184.01	4732.02	56784.21
		Step K	27.9744	2237.95	4848.90	58186.75
		Step L	28.6651	2293.21	4968.62	59623.41
		Step M	29.3732	2349.86	5091.35	61096.26
		Step N	30.0985	2407.88	5217.07	62604.88
		Step O	30.8418	2467.34	5345.91	64150.94



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1502B	Senior Permits Technician-B	Step A	25.5351	2042.81	4426.08	53113.01
		Step B	26.1657	2093.26	4535.39	54424.66
		Step C	26.8119	2144.95	4647.40	55768.75
		Step D	27.4741	2197.93	4762.18	57146.13
		Step E	28.1526	2252.21	4879.78	58557.41
		Step F	28.8478	2307.82	5000.29	60003.42
		Step G	29.5602	2364.82	5123.77	61485.22
		Step H	30.2902	2423.22	5250.30	63003.62
		Step I	31.0382	2483.06	5379.95	64559.46
		Step J	31.8047	2544.38	5512.81	66153.78
		Step K	32.5902	2607.22	5648.97	67787.62
		Step L	33.3950	2671.60	5788.47	69461.60
		Step M	34.2197	2737.58	5931.41	71176.98
		Step N	35.0648	2805.18	6077.90	72934.78
		Step O	35.9307	2874.46	6227.99	74735.86



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7129B	Senior Refuse Truck Driver-B	Step A	24.7806	1982.45	4295.30	51543.65
		Step B	25.3925	2031.40	4401.37	52816.40
		Step C	26.0196	2081.57	4510.06	54120.77
		Step D	26.6622	2132.98	4621.45	55457.38
		Step E	27.3207	2185.66	4735.59	56827.06
		Step F	27.9954	2239.63	4852.54	58230.43
		Step G	28.6867	2294.94	4972.36	59668.34
		Step H	29.3951	2351.61	5095.15	61141.81
		Step I	30.1211	2409.69	5220.99	62651.89
		Step J	30.8649	2469.19	5349.92	64198.99
		Step K	31.6272	2530.18	5482.05	65784.58
		Step L	32.4082	2592.66	5617.42	67409.06
		Step M	33.2085	2656.68	5756.14	69073.68
		Step N	34.0287	2722.30	5898.31	70779.70
		Step O	34.8690	2789.52	6043.96	72527.52



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1279B	Senior Solid Waste Billing Technician-B	Step A	24.6960	1975.68	4280.64	51367.68
		Step B	25.3058	2024.46	4386.34	52636.06
		Step C	25.9308	2074.46	4494.67	53936.06
		Step D	26.5712	2125.70	4605.67	55268.10
		Step E	27.2274	2178.19	4719.42	56632.99
		Step F	27.8998	2231.98	4835.97	58031.58
		Step G	28.5888	2287.10	4955.39	59464.70
		Step H	29.2948	2343.58	5077.77	60933.18
		Step I	30.0182	2401.46	5203.15	62437.86
		Step J	30.7596	2460.77	5331.66	63979.97
		Step K	31.5192	2521.54	5463.33	65559.94
		Step L	32.2975	2583.80	5598.23	67178.80
		Step M	33.0952	2647.62	5736.50	68838.02
		Step N	33.9124	2712.99	5878.15	70537.79
		Step O	34.7499	2779.99	6023.32	72279.79



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7187B	Senior Street Maintenance Worker-B	Step A	25.5533	2044.26	4429.24	53150.86
		Step B	26.1844	2094.75	4538.63	54463.55
		Step C	26.8309	2146.47	4650.69	55808.27
		Step D	27.4936	2199.49	4765.56	57186.69
		Step E	28.1726	2253.81	4883.25	58599.01
		Step F	28.8683	2309.46	5003.84	60046.06
		Step G	29.5812	2366.50	5127.41	61528.90
		Step H	30.3117	2424.94	5254.03	63048.34
		Step I	31.0603	2484.82	5383.79	64605.42
		Step J	31.8273	2546.18	5516.73	66200.78
		Step K	32.6133	2609.06	5652.97	67835.66
		Step L	33.4187	2673.50	5792.57	69510.90
		Step M	34.2440	2739.52	5935.63	71227.52
		Step N	35.0897	2807.18	6082.21	72986.58
		Step O	35.9563	2876.50	6232.43	74789.10



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7201B	Senior Tree Trimmer-B	Step A	22.9622	1836.98	3980.11	47761.38
		Step B	23.5292	1882.34	4078.39	48940.74
		Step C	24.1103	1928.82	4179.12	50149.42
		Step D	24.7057	1976.46	4282.32	51387.86
		Step E	25.3158	2025.26	4388.07	52656.86
		Step F	25.9410	2075.28	4496.44	53957.28
		Step G	26.5817	2126.54	4607.49	55289.94
		Step H	27.2380	2179.04	4721.25	56655.04
		Step I	27.9106	2232.85	4837.84	58054.05
		Step J	28.5999	2287.99	4957.32	59487.79
		Step K	29.3063	2344.50	5079.76	60957.10
		Step L	30.0300	2402.40	5205.20	62462.40
		Step M	30.7715	2461.72	5333.73	64004.72
		Step N	31.5315	2522.52	5465.46	65585.52
		Step O	32.3102	2584.82	5600.43	67205.22



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7203B	Senior Warehouse Worker-B	Step A	23.1107	1848.86	4005.85	48070.26
		Step B	23.6815	1894.52	4104.79	49257.52
		Step C	24.2663	1941.30	4206.16	50473.90
		Step D	24.8655	1989.24	4310.02	51720.24
		Step E	25.4797	2038.38	4416.48	52997.78
		Step F	26.1089	2088.71	4525.54	54306.51
		Step G	26.7536	2140.29	4637.29	55647.49
		Step H	27.4143	2193.14	4751.81	57021.74
		Step I	28.0914	2247.31	4869.18	58430.11
		Step J	28.7851	2302.81	4989.42	59873.01
		Step K	29.4959	2359.67	5112.62	61351.47
		Step L	30.2243	2417.94	5238.88	62866.54
		Step M	30.9707	2477.66	5368.25	64419.06
		Step N	31.7355	2538.84	5500.82	66009.84
		Step O	32.5193	2601.54	5636.68	67640.14



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7324B	Solid Waste Billing Technician-B	Step A	21.4747	1717.98	3722.28	44667.38
		Step B	22.0051	1760.41	3814.22	45770.61
		Step C	22.5486	1803.89	3908.42	46901.09
		Step D	23.1054	1848.43	4004.94	48059.23
		Step E	23.6760	1894.08	4103.84	49246.08
		Step F	24.2607	1940.86	4205.19	50462.26
		Step G	24.8598	1988.78	4309.03	51708.38
		Step H	25.4737	2037.90	4415.44	52985.30
		Step I	26.1028	2088.22	4524.49	54293.82
		Step J	26.7474	2139.79	4636.22	55634.59
		Step K	27.4080	2192.64	4750.72	57008.64
		Step L	28.0848	2246.78	4868.03	58416.38
		Step M	28.7783	2302.26	4988.24	59858.86
		Step N	29.4891	2359.13	5111.44	61337.33
		Step O	30.2173	2417.38	5237.67	62851.98



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LO39 Stationary Engineers Local 39
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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7525B	Street Maintenance Worker I-B	Step A	21.1184	1689.47	3660.52	43926.27
		Step B	21.6400	1731.20	3750.93	45011.20
		Step C	22.1743	1773.94	3843.55	46122.54
		Step D	22.7220	1817.76	3938.48	47261.76
		Step E	23.2831	1862.65	4035.74	48428.85
		Step F	23.8581	1908.65	4135.40	49624.85
		Step G	24.4473	1955.78	4237.53	50850.38
		Step H	25.0510	2004.08	4342.17	52106.08
		Step I	25.6697	2053.58	4449.41	53392.98
		Step J	26.3036	2104.29	4559.29	54711.49
		Step K	26.9531	2156.25	4671.87	56062.45
		Step L	27.6188	2209.50	4787.26	57447.10
		Step M	28.3009	2264.07	4905.49	58865.87
		Step N	28.9998	2319.98	5026.63	60319.58
		Step O	29.7159	2377.27	5150.76	61809.07



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Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
7530B	Street Maintenance Worker II-B	Step A	23.2302	1858.42	4026.57	48318.82
		Step B	23.8040	1904.32	4126.03	49512.32
		Step C	24.3918	1951.34	4227.91	50734.94
		Step D	24.9941	1999.53	4332.31	51987.73
		Step E	25.6114	2048.91	4439.31	53271.71
		Step F	26.2439	2099.51	4548.94	54587.31
		Step G	26.8920	2151.36	4661.28	55935.36
		Step H	27.5562	2204.50	4776.41	57316.90
		Step I	28.2366	2258.93	4894.34	58732.13
		Step J	28.9340	2314.72	5015.23	60182.72
		Step K	29.6485	2371.88	5139.07	61668.88
		Step L	30.3807	2430.46	5265.99	63191.86
		Step M	31.1310	2490.48	5396.04	64752.48
		Step N	31.8997	2551.98	5529.28	66351.38
		Step O	32.6875	2615.00	5665.83	67990.00



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LO39 Stationary Engineers Local 39
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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
7540B	Street Sweeper Operator-B	Step A	24.3918	1951.34	4227.91	50734.94
		Step B	24.9941	1999.53	4332.31	51987.73
		Step C	25.6114	2048.91	4439.31	53271.71
		Step D	26.2439	2099.51	4548.94	54587.31
		Step E	26.8919	2151.35	4661.26	55935.15
		Step F	27.5561	2204.49	4776.39	57316.69
		Step G	28.2366	2258.93	4894.34	58732.13
		Step H	28.9339	2314.71	5015.21	60182.51
		Step I	29.6485	2371.88	5139.07	61668.88
		Step J	30.3807	2430.46	5265.99	63191.86
		Step K	31.1310	2490.48	5396.04	64752.48
		Step L	31.8997	2551.98	5529.28	66351.38
		Step M	32.6875	2615.00	5665.83	67990.00
		Step N	33.4947	2679.58	5805.75	69668.98
		Step O	34.3218	2745.74	5949.11	71389.34



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name					
		Step Name	Hourly	Bi-Weekly	Monthly	Annual
1503B	Tree Trimmer I-B	Step A	18.9768	1518.14	3289.31	39471.74
		Step B	19.4454	1555.63	3370.54	40446.43
		Step C	19.9257	1594.06	3453.79	41445.46
		Step D	20.4177	1633.42	3539.07	42468.82
		Step E	20.9219	1673.75	3626.46	43517.55
		Step F	21.4386	1715.09	3716.02	44592.29
		Step G	21.9680	1757.44	3807.79	45693.44
		Step H	22.5105	1800.84	3901.82	46821.84
		Step I	23.0664	1845.31	3998.18	47978.11
		Step J	23.6361	1890.89	4096.92	49163.09
		Step K	24.2197	1937.58	4198.08	50376.98
		Step L	24.8179	1985.43	4301.77	51621.23
		Step M	25.4308	2034.46	4408.01	52896.06
		Step N	26.0588	2084.70	4516.86	54202.30
		Step O	26.7023	2136.18	4628.40	55540.78



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1504B	Tree Trimmer II-B	Step A	20.8747	1669.98	3618.28	43419.38
		Step B	21.3900	1711.20	3707.60	44491.20
		Step C	21.9181	1753.45	3799.14	45589.65
		Step D	22.4594	1796.75	3892.96	46715.55
		Step E	23.0141	1841.13	3989.11	47869.33
		Step F	23.5825	1886.60	4087.63	49051.60
		Step G	24.1649	1933.19	4188.58	50262.99
		Step H	24.7616	1980.93	4292.01	51504.13
		Step I	25.3732	2029.86	4398.02	52776.26
		Step J	25.9998	2079.98	4506.63	54079.58
		Step K	26.6417	2131.34	4617.89	55414.74
		Step L	27.2997	2183.98	4731.95	56783.38
		Step M	27.9740	2237.92	4848.83	58185.92
		Step N	28.6647	2293.18	4968.55	59622.58
		Step O	29.3726	2349.81	5091.25	61095.01



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		Step Name	Hourly	Bi-Weekly	Monthly	Annual
8938B	Vehicle Maintenance Parts Buyer-B	Step A	23.1107	1848.86	4005.85	48070.26
		Step B	23.6815	1894.52	4104.79	49257.52
		Step C	24.2663	1941.30	4206.16	50473.90
		Step D	24.8655	1989.24	4310.02	51720.24
		Step E	25.4797	2038.38	4416.48	52997.78
		Step F	26.1089	2088.71	4525.54	54306.51
		Step G	26.7536	2140.29	4637.29	55647.49
		Step H	27.4143	2193.14	4751.81	57021.74
		Step I	28.0914	2247.31	4869.18	58430.11
		Step J	28.7851	2302.81	4989.42	59873.01
		Step K	29.4959	2359.67	5112.62	61351.47
		Step L	30.2243	2417.94	5238.88	62866.54
		Step M	30.9707	2477.66	5368.25	64419.06
		Step N	31.7355	2538.84	5500.82	66009.84
		Step O	32.5193	2601.54	5636.68	67640.14



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Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8940B	Vehicle Maintenance Servicewriter-B	Step A	28.5288	2282.30	4944.99	59339.90
		Step B	29.2334	2338.67	5067.12	60805.47
		Step C	29.9553	2396.42	5192.25	62307.02
		Step D	30.6950	2455.60	5320.47	63845.60
		Step E	31.4531	2516.25	5451.87	65422.45
		Step F	32.2298	2578.38	5586.50	67037.98
		Step G	33.0257	2642.06	5724.45	68693.46
		Step H	33.8413	2707.30	5865.83	70389.90
		Step I	34.6770	2774.16	6010.68	72128.16
		Step J	35.5334	2842.67	6159.12	73909.47
		Step K	36.4109	2912.87	6311.22	75734.67
		Step L	37.3101	2984.81	6467.08	77605.01
		Step M	38.2315	3058.52	6626.79	79521.52
		Step N	39.1756	3134.05	6790.44	81485.25
		Step O	40.1431	3211.45	6958.14	83497.65



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Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
8426B	Video and Multimedia Technician-B	Step A	26.2424	2099.39	4548.68	54584.19
		Step B	26.8905	2151.24	4661.02	55932.24
		Step C	27.5545	2204.36	4776.11	57313.36
		Step D	28.2351	2258.81	4894.08	58729.01
		Step E	28.9324	2314.59	5014.95	60179.39
		Step F	29.6469	2371.75	5138.80	61665.55
		Step G	30.3789	2430.31	5265.68	63188.11
		Step H	31.1291	2490.33	5395.71	64748.53
		Step I	31.8979	2551.83	5528.97	66347.63
		Step J	32.6856	2614.85	5665.50	67986.05
		Step K	33.4929	2679.43	5805.44	69665.23
		Step L	34.3200	2745.60	5948.80	71385.60
		Step M	35.1675	2813.40	6095.70	73148.40
		Step N	36.0359	2882.87	6246.22	74954.67
		Step O	36.9259	2954.07	6400.49	76805.87



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8951B	Warehouse Worker I-B	Step A	19.0998	1527.98	3310.63	39727.58
		Step B	19.5714	1565.71	3392.38	40708.51
		Step C	20.0548	1604.38	3476.17	41713.98
		Step D	20.5500	1644.00	3562.00	42744.00
		Step E	21.0575	1684.60	3649.97	43799.60
		Step F	21.5775	1726.20	3740.10	44881.20
		Step G	22.1104	1768.83	3832.47	45989.63
		Step H	22.6565	1812.52	3927.13	47125.52
		Step I	23.2160	1857.28	4024.11	48289.28
		Step J	23.7893	1903.14	4123.48	49481.74
		Step K	24.3767	1950.14	4225.29	50703.54
		Step L	24.9787	1998.30	4329.64	51955.70
		Step M	25.5956	2047.65	4436.57	53238.85
		Step N	26.2277	2098.22	4546.13	54553.62
		Step O	26.8754	2150.03	4658.40	55900.83



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
8952B	Warehouse Worker II-B	Step A	21.0097	1680.78	3641.68	43700.18
		Step B	21.5286	1722.29	3731.62	44779.49
		Step C	22.0602	1764.82	3823.77	45885.22
		Step D	22.6051	1808.41	3918.22	47018.61
		Step E	23.1633	1853.06	4014.97	48179.66
		Step F	23.7354	1898.83	4114.14	49369.63
		Step G	24.3214	1945.71	4215.71	50588.51
		Step H	24.9221	1993.77	4319.83	51837.97
		Step I	25.5376	2043.01	4426.52	53118.21
		Step J	26.1683	2093.46	4535.84	54430.06
		Step K	26.8144	2145.15	4647.83	55773.95
		Step L	27.4766	2198.13	4762.61	57151.33
		Step M	28.1552	2252.42	4880.23	58562.82
		Step N	28.8505	2308.04	5000.75	60009.04
		Step O	29.5630	2365.04	5124.25	61491.04



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9000B	Wastewater Treatment Plant Operator Grade I-B	Step A	22.2769	1782.15	3861.33	46335.95
		Step B	22.8269	1826.15	3956.66	47479.95
		Step C	23.3907	1871.26	4054.39	48652.66
		Step D	23.9683	1917.46	4154.51	49854.06
		Step E	24.5602	1964.82	4257.10	51085.22
		Step F	25.1667	2013.34	4362.23	52346.74
		Step G	25.7882	2063.06	4469.95	53639.46
		Step H	26.4251	2114.01	4580.35	54964.21
		Step I	27.0777	2166.22	4693.47	56321.62
		Step J	27.7464	2219.71	4809.38	57712.51
		Step K	28.4316	2274.53	4928.14	59137.73
		Step L	29.1337	2330.70	5049.84	60598.10
		Step M	29.8532	2388.26	5174.55	62094.66
		Step N	30.5905	2447.24	5302.35	63628.24
		Step O	31.3459	2507.67	5433.29	65199.47



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9010B	Wastewater Treatment Plant Operator Grade II-B	Step A	24.5818	1966.54	4260.85	51130.14
		Step B	25.1889	2015.11	4366.08	52392.91
		Step C	25.8109	2064.87	4473.89	53686.67
		Step D	26.4483	2115.86	4584.37	55012.46
		Step E	27.1016	2168.13	4697.61	56371.33
		Step F	27.7708	2221.66	4813.61	57763.26
		Step G	28.4566	2276.53	4932.48	59189.73
		Step H	29.1593	2332.74	5054.28	60651.34
		Step I	29.8794	2390.35	5179.10	62149.15
		Step J	30.6173	2449.38	5307.00	63683.98
		Step K	31.3734	2509.87	5438.06	65256.67
		Step L	32.1482	2571.86	5572.35	66868.26
		Step M	32.9422	2635.38	5709.98	68519.78
		Step N	33.7556	2700.45	5850.97	70211.65
		Step O	34.5893	2767.14	5995.48	71945.74



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Step Name	Hourly	Bi-Weekly	Monthly	Annual
Step A	22.9237	2567.45	5562.82	66753.81
Step B	23.4898	2630.86	5700.19	68402.30
Step C	24.0699	2695.83	5840.96	70091.55
Step D	24.6644	2762.41	5985.23	71822.73
Step E	25.2734	2830.62	6133.01	73596.14
Step F	25.8975	2900.52	6284.46	75413.52
Step G	26.5372	2972.17	6439.69	77276.33
Step H	27.1925	3045.56	6598.71	79184.56
Step I	27.8640	3120.77	6761.66	81139.97
Step J	28.5521	3197.84	6928.64	83143.72
Step K	29.2572	3276.81	7099.75	85196.97
Step L	29.9798	3357.74	7275.10	87301.18
Step M	30.7201	3440.65	7454.74	89456.93
Step N	31.4788	3525.63	7638.86	91666.27
Step O	32.2561	3612.68	7827.48	93929.76



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9025B	Wastewater Treatment Plant Operator Grade III 8Hr-B	Step A	29.8542	2388.34	5174.73	62096.74
		Step B	30.5915	2447.32	5302.53	63630.32
		Step C	31.3469	2507.75	5433.46	65201.55
		Step D	32.1211	2569.69	5567.66	66811.89
		Step E	32.9143	2633.14	5705.15	68461.74
		Step F	33.7271	2698.17	5846.03	70152.37
		Step G	34.5600	2764.80	5990.40	71884.80
		Step H	35.4135	2833.08	6138.34	73660.08
		Step I	36.2881	2903.05	6289.94	75479.25
		Step J	37.1842	2974.74	6445.26	77343.14
		Step K	38.1025	3048.20	6604.43	79253.20
		Step L	39.0434	3123.47	6767.52	81210.27
		Step M	40.0076	3200.61	6934.65	83215.81
		Step N	40.9956	3279.65	7105.90	85270.85
		Step O	42.0080	3360.64	7281.39	87376.64



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9020ZB	Wastewater Treatment Plant Operator Grade III 8Hr-ZB	Step A	32.0933	2567.46	5562.84	66754.06
		Step B	32.8857	2630.86	5700.19	68402.26
		Step C	33.6978	2695.82	5840.95	70091.42
		Step D	34.5300	2762.40	5985.20	71822.40
		Step E	35.3827	2830.62	6133.00	73596.02
		Step F	36.2565	2900.52	6284.46	75413.52
		Step G	37.1519	2972.15	6439.66	77275.95
		Step H	38.0694	3045.55	6598.70	79184.35
		Step I	39.0095	3120.76	6761.65	81139.76
		Step J	39.9729	3197.83	6928.64	83143.63
		Step K	40.9600	3276.80	7099.73	85196.80
		Step L	41.9716	3357.73	7275.08	87300.93
		Step M	43.0081	3440.65	7454.74	89456.85
		Step N	44.0702	3525.62	7638.83	91666.02
		Step O	45.1585	3612.68	7827.47	93929.68



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9030B	Wastewater Treatment Plant Operator Grade IV-B	Step A	35.9444	2875.55	6230.36	74764.35
		Step B	36.8322	2946.58	6384.25	76610.98
		Step C	37.7417	3019.34	6541.89	78502.74
		Step D	38.6738	3093.90	6703.46	80441.50
		Step E	39.6288	3170.30	6868.99	82427.90
		Step F	40.6075	3248.60	7038.63	84463.60
		Step G	41.6102	3328.82	7212.43	86549.22
		Step H	42.6379	3411.03	7390.57	88686.83
		Step I	43.6908	3495.26	7573.07	90876.86
		Step J	44.7698	3581.58	7760.10	93121.18
		Step K	45.8754	3670.03	7951.74	95420.83
		Step L	47.0083	3760.66	8148.11	97777.26
		Step M	48.1691	3853.53	8349.31	100191.73
		Step N	49.3588	3948.70	8555.53	102666.30
		Step O	50.5777	4046.22	8766.80	105201.62



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Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
9200B	Water Treatment Plant Operator Grade I 24Hr-B	Step A	15.9120	1782.14	3861.31	46335.74
		Step B	16.3050	1826.16	3956.68	47480.16
		Step C	16.7077	1871.26	4054.40	48652.82
		Step D	17.1202	1917.46	4154.50	49854.02
		Step E	17.5430	1964.82	4257.10	51085.22
		Step F	17.9762	2013.33	4362.22	52346.69
		Step G	18.4201	2063.05	4469.94	53639.33
		Step H	18.8751	2114.01	4580.36	54964.29
		Step I	19.3412	2166.21	4693.46	56321.57
		Step J	19.8189	2219.72	4809.39	57712.64
		Step K	20.3083	2274.53	4928.15	59137.77
		Step L	20.8098	2330.70	5049.84	60598.14
		Step M	21.3237	2388.25	5174.55	62094.61
		Step N	21.8503	2447.23	5302.34	63628.07
		Step O	22.3899	2507.67	5433.28	65199.39



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9232B	Water Treatment Plant Operator Grade I 8Hr-B	Step A	22.2769	1782.15	3861.33	46335.95
		Step B	22.8269	1826.15	3956.66	47479.95
		Step C	23.3907	1871.26	4054.39	48652.66
		Step D	23.9683	1917.46	4154.51	49854.06
		Step E	24.5602	1964.82	4257.10	51085.22
		Step F	25.1667	2013.34	4362.23	52346.74
		Step G	25.7882	2063.06	4469.95	53639.46
		Step H	26.4251	2114.01	4580.35	54964.21
		Step I	27.0777	2166.22	4693.47	56321.62
		Step J	27.7464	2219.71	4809.38	57712.51
		Step K	28.4316	2274.53	4928.14	59137.73
		Step L	29.1337	2330.70	5049.84	60598.10
		Step M	29.8532	2388.26	5174.55	62094.66
		Step N	30.5905	2447.24	5302.35	63628.24
		Step O	31.3459	2507.67	5433.29	65199.47



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9200ZB	Water Treatment Plant Operator Grade I 8Hr-ZB	Step A	22.2769	1782.15	3861.33	46335.95
		Step B	22.8269	1826.15	3956.66	47479.95
		Step C	23.3907	1871.26	4054.39	48652.66
		Step D	23.9683	1917.46	4154.51	49854.06
		Step E	24.5602	1964.82	4257.10	51085.22
		Step F	25.1667	2013.34	4362.23	52346.74
		Step G	25.7882	2063.06	4469.95	53639.46
		Step H	26.4251	2114.01	4580.35	54964.21
		Step I	27.0777	2166.22	4693.47	56321.62
		Step J	27.7464	2219.71	4809.38	57712.51
		Step K	28.4316	2274.53	4928.14	59137.73
		Step L	29.1337	2330.70	5049.84	60598.10
		Step M	29.8532	2388.26	5174.55	62094.66
		Step N	30.5905	2447.24	5302.35	63628.24
		Step O	31.3459	2507.67	5433.29	65199.47



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9210B	Water Treatment Plant Operator Grade II 24Hr-B	Step A	17.5586	1966.56	4260.89	51130.64
		Step B	17.9922	2015.13	4366.11	52393.29
		Step C	18.4366	2064.90	4473.95	53687.38
		Step D	18.8919	2115.89	4584.43	55013.21
		Step E	19.3584	2168.14	4697.64	56371.66
		Step F	19.8364	2221.68	4813.63	57763.60
		Step G	20.3263	2276.55	4932.52	59190.19
		Step H	20.8282	2332.76	5054.31	60651.72
		Step I	21.3426	2390.37	5179.14	62149.65
		Step J	21.8697	2449.41	5307.05	63684.57
		Step K	22.4098	2509.90	5438.11	65257.34
		Step L	22.9632	2571.88	5572.40	66868.84
		Step M	23.5303	2635.39	5710.02	68520.23
		Step N	24.1114	2700.48	5851.03	70212.40
		Step O	24.7068	2767.16	5995.52	71946.20



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9234B	Water Treatment Plant Operator Grade II 8Hr-B	Step A	24.5821	1966.57	4260.90	51130.77
		Step B	25.1892	2015.14	4366.13	52393.54
		Step C	25.8112	2064.90	4473.94	53687.30
		Step D	26.4486	2115.89	4584.42	55013.09
		Step E	27.1018	2168.14	4697.65	56371.74
		Step F	27.7711	2221.69	4813.66	57763.89
		Step G	28.4568	2276.54	4932.51	59190.14
		Step H	29.1596	2332.77	5054.33	60651.97
		Step I	29.8797	2390.38	5179.15	62149.78
		Step J	30.6176	2449.41	5307.05	63684.61
		Step K	31.3737	2509.90	5438.11	65257.30
		Step L	32.1485	2571.88	5572.41	66868.88
		Step M	32.9425	2635.40	5710.03	68520.40
		Step N	33.7559	2700.47	5851.02	70212.27
		Step O	34.5896	2767.17	5995.53	71946.37



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9210ZB	Water Treatment Plant Operator Grade II 8Hr-ZB	Step A	24.5821	1966.57	4260.90	51130.77
		Step B	25.1892	2015.14	4366.13	52393.54
		Step C	25.8112	2064.90	4473.94	53687.30
		Step D	26.4486	2115.89	4584.42	55013.09
		Step E	27.1018	2168.14	4697.65	56371.74
		Step F	27.7711	2221.69	4813.66	57763.89
		Step G	28.4568	2276.54	4932.51	59190.14
		Step H	29.1596	2332.77	5054.33	60651.97
		Step I	29.8797	2390.38	5179.15	62149.78
		Step J	30.6176	2449.41	5307.05	63684.61
		Step K	31.3737	2509.90	5438.11	65257.30
		Step L	32.1485	2571.88	5572.41	66868.88
		Step M	32.9425	2635.40	5710.03	68520.40
		Step N	33.7559	2700.47	5851.02	70212.27
		Step O	34.5896	2767.17	5995.53	71946.37



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9230B	Water Treatment Plant Operator Grade III 24Hr-B	Step A	22.3906	2507.75	5433.45	65201.43
		Step B	22.9435	2569.67	5567.62	66811.47
		Step C	23.5101	2633.13	5705.12	68461.41
		Step D	24.0907	2698.16	5846.01	70152.12
		Step E	24.6857	2764.80	5990.40	71884.76
		Step F	25.2953	2833.07	6138.33	73659.91
		Step G	25.9200	2903.04	6289.92	75479.04
		Step H	26.5601	2974.73	6445.25	77343.01
		Step I	27.2160	3048.19	6604.42	79252.99
		Step J	27.8882	3123.48	6767.54	81210.44
		Step K	28.5769	3200.61	6934.66	83215.93
		Step L	29.2825	3279.64	7105.89	85270.64
		Step M	30.0057	3360.64	7281.38	87376.60
		Step N	30.7467	3443.63	7461.20	89534.39
		Step O	31.5060	3528.67	7645.46	91745.47



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9229B	Water Treatment Plant Operator Grade III 8Hr-B	Step A	29.8542	2388.34	5174.73	62096.74
		Step B	30.5915	2447.32	5302.53	63630.32
		Step C	31.3469	2507.75	5433.46	65201.55
		Step D	32.1211	2569.69	5567.66	66811.89
		Step E	32.9143	2633.14	5705.15	68461.74
		Step F	33.7271	2698.17	5846.03	70152.37
		Step G	34.5600	2764.80	5990.40	71884.80
		Step H	35.4135	2833.08	6138.34	73660.08
		Step I	36.2881	2903.05	6289.94	75479.25
		Step J	37.1842	2974.74	6445.26	77343.14
		Step K	38.1025	3048.20	6604.43	79253.20
		Step L	39.0434	3123.47	6767.52	81210.27
		Step M	40.0076	3200.61	6934.65	83215.81
		Step N	40.9956	3279.65	7105.90	85270.85
		Step O	42.0080	3360.64	7281.39	87376.64



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

		Step Name	Hourly	Bi-Weekly	Monthly	Annual
9230ZB	Water Treatment Plant Operator Grade III 8Hr-ZB	Step A	31.3470	2507.76	5433.48	65201.76
		Step B	32.1210	2569.68	5567.64	66811.68
		Step C	32.9142	2633.14	5705.13	68461.54
		Step D	33.7270	2698.16	5846.01	70152.16
		Step E	34.5599	2764.79	5990.38	71884.59
		Step F	35.4134	2833.07	6138.32	73659.87
		Step G	36.2879	2903.03	6289.90	75478.83
		Step H	37.1841	2974.73	6445.24	77342.93
		Step I	38.1024	3048.19	6604.42	79252.99
		Step J	39.0433	3123.46	6767.51	81210.06
		Step K	40.0075	3200.60	6934.63	83215.60
		Step L	40.9955	3279.64	7105.89	85270.64
		Step M	42.0079	3360.63	7281.37	87376.43
		Step N	43.0453	3443.62	7461.19	89534.22
		Step O	44.1084	3528.67	7645.46	91745.47



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LO39 Stationary Engineers Local 39
Grade Code Grade Name

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1641B	Youth Development Program Coordinator-B	Step A	24.4984	1959.87	4246.39	50956.67
		Step B	25.1034	2008.27	4351.26	52215.07
		Step C	25.7233	2057.86	4458.71	53504.46
		Step D	26.3586	2108.69	4568.82	54825.89
		Step E	27.0096	2160.77	4681.66	56179.97
		Step F	27.6765	2214.12	4797.26	57567.12
		Step G	28.3600	2268.80	4915.73	58988.80
		Step H	29.0604	2324.83	5037.14	60445.63
		Step I	29.7780	2382.24	5161.52	61938.24
		Step J	30.5135	2441.08	5289.01	63468.08
		Step K	31.2669	2501.35	5419.60	65035.15
		Step L	32.0391	2563.13	5553.44	66641.33
		Step M	32.8303	2626.42	5690.59	68287.02
		Step N	33.6411	2691.29	5831.12	69973.49
		Step O	34.4719	2757.75	5975.13	71701.55

ORDINANCE NO. 6218

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING
ORDINANCE NO. 6181, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED
BY ROSEVILLE FIREFIGHTERS, LOCAL 1592, AS AMENDED BY APPENDIX "E", TO
BE EFFECTIVE MAY 9, 2020 AS AN URGENCY MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Title and Purpose.

Ordinance No. 6181, the Salary Ordinance for Roseville Firefighters, Local 1592, is hereby amended as shown on Appendix "E" for salary schedules A and B, attached hereto.

DELETION OF CLASSIFICATION

<u>Classification No.</u>	<u>Position Title</u>	<u>Salary Range</u>
3380A/3380B	Fire Inspector I	4381
3385A/3385B	Fire Inspector II	4820

SECTION 2. Salary Schedule Effective Date.

A Classification Salary Plan adopted by this Ordinance shall be effective May 9, 2020 as an urgency measure.

SECTION 3. Urgency Ordinance.

This ordinance is hereby declared to be an urgency measure, immediately necessary for the public peace, health and safety and shall take effect May 9, 2020. A statement of urgency is as follows:

It is necessary to amend the Salary Ordinance to comply with recently approved changes for the orderly and necessary continuance of operations of the City.

SECTION 4. Posting.

The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and she shall immediately after such posting enter in the Ordinance Book under the record of the ordinance a certificate under her hand stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-A

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3320ZA	Fire Captain 8Hr-ZA	Step A	39.8186	3185.49	6901.89	82822.69
		Step B	41.8094	3344.75	7246.96	86963.55
		Step C	43.8999	3511.99	7609.32	91311.79
		Step D	46.0950	3687.60	7989.80	95877.60
		Step E	48.3997	3871.98	8389.28	100671.38
		Step F	50.8197	4065.58	8808.75	105704.98
		Step G	53.3606	4268.85	9249.17	110990.05
		Step H	56.0288	4482.30	9711.66	116539.90
3320A	Fire Captain-A	Step A	28.4416	3185.46	6901.83	82821.94
		Step B	29.8638	3344.75	7246.95	86963.39
		Step C	31.3571	3512.00	7609.32	91311.88
		Step D	32.9248	3687.58	7989.75	95877.02
		Step E	34.5713	3871.99	8389.30	100671.63
		Step F	36.2997	4065.57	8808.73	105704.73
		Step G	38.1147	4268.85	9249.17	110990.01
		Step H	40.0205	4482.30	9711.64	116539.70



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-A

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3340ZA	Fire Engineer 8Hr-ZA	Step A	34.2557	2740.46	5937.65	71251.86
		Step B	35.9687	2877.50	6234.57	74814.90
		Step C	37.7673	3021.38	6546.33	78555.98
		Step D	39.6555	3172.44	6873.62	82483.44
		Step E	41.6382	3331.06	7217.29	86607.46
		Step F	43.7203	3497.62	7578.19	90938.22
		Step G	45.9062	3672.50	7957.07	95484.90
		Step H	48.2018	3856.14	8354.98	100259.74
3340A	Fire Engineer-A	Step A	24.4683	2740.45	5937.64	71251.69
		Step B	25.6918	2877.48	6234.54	74814.52
		Step C	26.9764	3021.36	6546.27	78555.28
		Step D	28.3251	3172.41	6873.56	82482.69
		Step E	29.7414	3331.04	7217.25	86606.96
		Step F	31.2284	3497.58	7578.09	90937.10
		Step G	32.7899	3672.47	7957.02	95484.19
		Step H	34.4297	3856.13	8354.94	100259.29



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-A

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1022A	Fire and Environmental Inspection Supervisor-A	Step A	39.8186	3185.49	6901.89	82822.69
		Step B	41.8095	3344.76	7246.98	86963.76
		Step C	43.9000	3512.00	7609.33	91312.00
		Step D	46.0951	3687.61	7989.82	95877.81
		Step E	48.3998	3871.98	8389.30	100671.58
		Step F	50.8198	4065.58	8808.77	105705.18
		Step G	53.3608	4268.86	9249.21	110990.46
		Step H	56.0289	4482.31	9711.68	116540.11
3375A	Fire and Environmental Safety Inspector I-A	Step A	31.1416	2491.33	5397.88	64774.53
		Step B	32.6990	2615.92	5667.83	68013.92
		Step C	34.3338	2746.70	5951.19	71414.30
		Step D	36.0505	2884.04	6248.75	74985.04
		Step E	37.8530	3028.24	6561.19	78734.24
		Step F	39.7457	3179.66	6889.25	82671.06
		Step G	41.7328	3338.62	7233.69	86804.22
		Step H	43.8197	3505.58	7595.41	91144.98



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-A

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3377A	Fire and Environmental Safety Inspector II-A	Step A	34.2556	2740.45	5937.64	71251.65
		Step B	35.9685	2877.48	6234.54	74814.48
		Step C	37.7671	3021.37	6546.30	78555.57
		Step D	39.6554	3172.43	6873.60	82483.23
		Step E	41.6380	3331.04	7217.25	86607.04
		Step F	43.7198	3497.58	7578.10	90937.18
		Step G	45.9059	3672.47	7957.02	95484.27
		Step H	48.2016	3856.13	8354.94	100259.33
3350A	Firefighter EMT I-A	Step A	21.9566	2459.14	5328.13	63937.62
		Step B	23.0545	2582.10	5594.56	67134.70
		Step C	24.2071	2711.20	5874.26	70491.08
		Step D	25.4175	2846.76	6167.98	74015.76
		Step E	26.6887	2989.13	6476.46	77717.49
		Step F	28.0228	3138.55	6800.20	81602.39
		Step G	29.4242	3295.51	7140.27	85683.27
		Step H	30.8954	3460.28	7497.28	89967.40



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-A

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3353ZA	Firefighter Paramedic I 8Hr-ZA	Step A	34.2557	2740.46	5937.65	71251.86
		Step B	35.9687	2877.50	6234.57	74814.90
		Step C	37.7673	3021.38	6546.33	78555.98
		Step D	39.6555	3172.44	6873.62	82483.44
		Step E	41.6382	3331.06	7217.29	86607.46
		Step F	43.7203	3497.62	7578.19	90938.22
		Step G	45.9062	3672.50	7957.07	95484.90
		Step H	48.2018	3856.14	8354.98	100259.74
3353A	Firefighter Paramedic I-A	Step A	24.4683	2740.45	5937.64	71251.69
		Step B	25.6918	2877.48	6234.54	74814.52
		Step C	26.9764	3021.36	6546.27	78555.28
		Step D	28.3251	3172.41	6873.56	82482.69
		Step E	29.7414	3331.04	7217.25	86606.96
		Step F	31.2284	3497.58	7578.09	90937.10
		Step G	32.7899	3672.47	7957.02	95484.19
		Step H	34.4297	3856.13	8354.94	100259.29



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-A

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3355ZA	Firefighter Paramedic II 8Hr-ZA	Step A	34.2557	2740.46	5937.65	71251.86
		Step B	35.9687	2877.50	6234.57	74814.90
		Step C	37.7673	3021.38	6546.33	78555.98
		Step D	39.6555	3172.44	6873.62	82483.44
		Step E	41.6382	3331.06	7217.29	86607.46
		Step F	43.7203	3497.62	7578.19	90938.22
		Step G	45.9062	3672.50	7957.07	95484.90
		Step H	48.2018	3856.14	8354.98	100259.74
3355A	Firefighter Paramedic II-A	Step A	24.4683	2740.45	5937.64	71251.69
		Step B	25.6918	2877.48	6234.54	74814.52
		Step C	26.9764	3021.36	6546.27	78555.28
		Step D	28.3251	3172.41	6873.56	82482.69
		Step E	29.7414	3331.04	7217.25	86606.96
		Step F	31.2284	3497.58	7578.09	90937.10
		Step G	32.7899	3672.47	7957.02	95484.19
		Step H	34.4297	3856.13	8354.94	100259.29



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3320ZB	Fire Captain 8Hr-ZB	Step A	39.4882	3159.06	6844.62	82135.46
		Step B	40.4755	3238.04	7015.75	84189.04
		Step C	41.4873	3318.98	7191.13	86293.58
		Step D	42.5246	3401.97	7370.93	88451.17
		Step E	43.5876	3487.01	7555.18	90662.21
		Step F	44.6773	3574.18	7744.07	92928.78
		Step G	45.7943	3663.54	7937.68	95252.14
		Step H	46.9391	3755.13	8136.11	97633.33
		Step I	48.1126	3849.01	8339.52	100074.21
		Step J	49.3154	3945.23	8548.00	102576.03



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3320B	Fire Captain-B	Step A	28.2058	3159.05	6844.61	82135.29
		Step B	28.9110	3238.03	7015.74	84188.83
		Step C	29.6338	3318.99	7191.14	86293.63
		Step D	30.3746	3401.96	7370.90	88450.84
		Step E	31.1340	3487.01	7555.18	90662.21
		Step F	31.9123	3574.18	7744.05	92928.62
		Step G	32.7101	3663.53	7937.65	95251.81
		Step H	33.5279	3755.12	8136.10	97633.24
		Step I	34.3661	3849.00	8339.51	100074.08
		Step J	35.2252	3945.22	8547.98	102575.78



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3340ZB	Fire Engineer 8Hr-ZB	Step A	36.1758	2894.06	6270.47	75245.66
		Step B	37.0802	2966.42	6427.23	77126.82
		Step C	38.0072	3040.58	6587.91	79054.98
		Step D	38.9574	3116.59	6752.62	81031.39
		Step E	39.9313	3194.50	6921.43	83057.10
		Step F	40.9296	3274.37	7094.46	85133.57
		Step G	41.9529	3356.23	7271.84	87262.03
		Step H	43.0017	3440.14	7453.63	89443.54
		Step I	44.0767	3526.14	7639.96	91679.54
		Step J	45.1786	3614.29	7830.96	93971.49



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3340B	Fire Engineer-B	Step A	25.8398	2894.06	6270.46	75245.50
		Step B	26.4859	2966.42	6427.25	77126.94
		Step C	27.1480	3040.58	6587.91	79054.98
		Step D	27.8267	3116.59	6752.61	81031.35
		Step E	28.5223	3194.50	6921.41	83056.94
		Step F	29.2354	3274.36	7094.46	85133.48
		Step G	29.9663	3356.23	7271.82	87261.87
		Step H	30.7154	3440.12	7453.60	89443.24
		Step I	31.4834	3526.14	7639.97	91679.66
		Step J	32.2704	3614.28	7830.95	93971.40



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
1022B	Fire and Environmental Inspection Supervisor-B	Step A	39.2362	3138.90	6800.94	81611.30
		Step B	40.2170	3217.36	6970.95	83651.36
		Step C	42.2530	3380.24	7323.85	87886.24
		Step D	42.2530	3380.24	7323.85	87886.24
		Step E	43.3094	3464.75	7506.96	90083.55
		Step F	44.3921	3551.37	7694.63	92335.57
		Step G	45.5019	3640.15	7887.00	94643.95
		Step H	46.6395	3731.16	8084.18	97010.16
		Step I	47.8055	3824.44	8286.29	99435.44
		Step J	49.0006	3920.05	8493.44	101921.25



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3375B	Fire and Environmental Safety Inspector I-B	Step A	31.0167	2481.34	5376.23	64514.74
		Step B	31.7922	2543.38	5510.65	66127.78
		Step C	32.5870	2606.96	5648.41	67780.96
		Step D	33.4017	2672.14	5789.63	69475.54
		Step E	34.2367	2738.94	5934.36	71212.34
		Step F	35.0926	2807.41	6082.72	72992.61
		Step G	35.9699	2877.59	6234.78	74817.39
		Step H	36.8693	2949.54	6390.68	76688.14
		Step I	37.7910	3023.28	6550.44	78605.28
		Step J	38.7357	3098.86	6714.19	80570.26



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3377B	Fire and Environmental Safety Inspector II-B	Step A	34.1184	2729.47	5913.86	70966.27
		Step B	34.9714	2797.71	6061.71	72740.51
		Step C	35.8457	2867.66	6213.25	74559.06
		Step D	36.7418	2939.34	6368.58	76422.94
		Step E	37.6604	3012.83	6527.80	78333.63
		Step F	38.6019	3088.15	6691.00	80291.95
		Step G	39.5669	3165.35	6858.26	82299.15
		Step H	40.5561	3244.49	7029.72	84356.69
		Step I	41.5699	3325.59	7205.45	86465.39
		Step J	42.6092	3408.74	7385.59	88627.14



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3350B	Firefighter EMT I-B	Step A	21.8686	2449.28	5306.78	63681.36
		Step B	22.4154	2510.52	5439.47	65273.64
		Step C	22.9758	2573.29	5575.46	66905.53
		Step D	23.5501	2637.61	5714.82	68577.89
		Step E	24.1389	2703.56	5857.71	70292.48
		Step F	24.7424	2771.15	6004.16	72049.87
		Step G	25.3609	2840.42	6154.25	73850.94
		Step H	25.9950	2911.44	6308.12	75697.44
		Step I	26.6448	2984.22	6465.80	77589.66
		Step J	27.3110	3058.83	6627.47	79529.63



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3353ZB	Firefighter Paramedic I 8Hr-ZB	Step A	36.1758	2894.06	6270.47	75245.66
		Step B	37.0802	2966.42	6427.23	77126.82
		Step C	38.0072	3040.58	6587.91	79054.98
		Step D	38.9574	3116.59	6752.62	81031.39
		Step E	39.9313	3194.50	6921.43	83057.10
		Step F	40.9296	3274.37	7094.46	85133.57
		Step G	41.9529	3356.23	7271.84	87262.03
		Step H	43.0016	3440.13	7453.61	89443.33
		Step I	44.0767	3526.14	7639.96	91679.54
		Step J	45.1786	3614.29	7830.96	93971.49



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3353B	Firefighter Paramedic I-B	Step A	25.8398	2894.06	6270.46	75245.50
		Step B	26.4859	2966.42	6427.25	77126.94
		Step C	27.1480	3040.58	6587.91	79054.98
		Step D	27.8267	3116.59	6752.61	81031.35
		Step E	28.5223	3194.50	6921.41	83056.94
		Step F	29.2354	3274.36	7094.46	85133.48
		Step G	29.9663	3356.23	7271.82	87261.87
		Step H	30.7154	3440.12	7453.60	89443.24
		Step I	31.4834	3526.14	7639.97	91679.66
		Step J	32.2704	3614.28	7830.95	93971.40



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3355ZB	Firefighter Paramedic II 8Hr-ZB	Step A	36.1758	2894.06	6270.47	75245.66
		Step B	37.0802	2966.42	6427.23	77126.82
		Step C	38.0072	3040.58	6587.91	79054.98
		Step D	38.9574	3116.59	6752.62	81031.39
		Step E	39.9313	3194.50	6921.43	83057.10
		Step F	40.9296	3274.37	7094.46	85133.57
		Step G	41.9529	3356.23	7271.84	87262.03
		Step H	43.0016	3440.13	7453.61	89443.33
		Step I	44.0767	3526.14	7639.96	91679.54
		Step J	45.1786	3614.29	7830.96	93971.49



City of Roseville

Salary Schedule: Roseville Fire Fighters Association-B

Appendix:E
Effective Date:05/09/2020

RFF Roseville Fire Fighters
Association

Grade Code	Grade Name	Step Name	Hourly	Bi-Weekly	Monthly	Annual
3355B	Firefighter Paramedic II-B	Step A	25.8398	2894.06	6270.46	75245.50
		Step B	26.4859	2966.42	6427.25	77126.94
		Step C	27.1480	3040.58	6587.91	79054.98
		Step D	27.8267	3116.59	6752.61	81031.35
		Step E	28.5223	3194.50	6921.41	83056.94
		Step F	29.2354	3274.36	7094.46	85133.48
		Step G	29.9663	3356.23	7271.82	87261.87
		Step H	30.7154	3440.12	7453.60	89443.24
		Step I	31.4834	3526.14	7639.97	91679.66
		Step J	32.2704	3614.28	7830.95	93971.40



Position Allocation Control Report

5/9/2020

Position Code	Position Title	Allocated FTE
CAO220245001	Assistant City Attorney	1
CAO221200001	City Attorney	1
CAO224096001	Legal Clerk I/II	1
CAO224096002	Legal Clerk I/II	1
CAO225015001	Paralegal	1
CAO227123001	Senior Deputy City Attorney	1
CAO227123002	Senior Deputy City Attorney	1
CAO227123003	Senior Deputy City Attorney	1
CAO227123004	Senior Deputy City Attorney	1
Total for Department:		CAO City Attorney 9

Position Code	Position Title	Allocated FTE
CCD360250001	Assistant City Clerk	1
CCD361220001	City Clerk	1
CCD361227001	City Clerk Technician I/II	1
CCD361227002	City Clerk Technician I/II	1
CCD361227003	City Clerk Technician I/II	1
CCD361227004	City Clerk Technician I/II	1
CCD361665001	Deputy City Clerk I/II	1
CCD361665002	Deputy City Clerk I/II	1
CCD361665003	Deputy City Clerk I/II	1
CCD369548001	Passport/Livescan Agent	0.5
CCD369548002	Passport/Livescan Agent	0.5
CCD369548003	Passport/Livescan Agent	0.5
CCD369548004	Passport/Livescan Agent	0.5
CCD369548005	Passport/Livescan Agent	0.5
CCD369548006	Passport/Livescan Agent	0.5
Total for Department:		CCD City Clerk Department 12

Position Code	Position Title	Allocated FTE
CMO140325001	Assistant City Manager	1
CMO140325002	Assistant City Manager	1
CMO141240001	City Manager	1
CMO142540001	Environmental Coordinator	1
CMO142551001	Executive Assistant	1
CMO144457001	Management Assistant I/II	1
Total for Department:		CMO City Manager 6

Position Code	Position Title	Allocated FTE
DSD660050001	Administrative Analyst I/II	1
DSD660071001	Administrative Assistant	1
DSD660084001	Administrative Technician	1
DSD660820001	Associate Engineer	1
DSD660820003	Associate Engineer	1
DSD660900001	Associate/Assistant Planner	1
DSD660900002	Associate/Assistant Planner	1
DSD660900003	Associate/Assistant Planner	1
DSD660900004	Associate/Assistant Planner	1
DSD660900005	Associate/Assistant Planner	1
DSD660900006	Associate/Assistant Planner	1
DSD661005001	Associate (PE)/Assistant/Junior Engineer	1
DSD661005002	Associate (PE)/Assistant/Junior Engineer	1
DSD661005003	Associate (PE)/Assistant/Junior Engineer	1
DSD661005004	Associate (PE)/Assistant/Junior Engineer	1
DSD661005005	Associate (PE)/Assistant/Junior Engineer	1
DSD661017001	Building Inspection Supervisor	1
DSD661019001	Building Inspector I/II	1
DSD661019002	Building Inspector I/II	1
DSD661019003	Building Inspector I/II	1
DSD661019004	Building Inspector I/II	1
DSD661019005	Building Inspector I/II	1
DSD661019006	Building Inspector I/II	1
DSD661027001	Construction Inspection Superintendent	1
DSD661043001	Building Official	1
DSD661047001	Building Plans Examiner I/II	1
DSD661047002	Building Plans Examiner I/II	1
DSD661047003	Building Plans Examiner I/II	1
DSD661047004	Building Plans Examiner I/II	1
DSD661248001	Construction Inspection Supervisor	1
DSD661277001	Engineering Manager	1

DSD661280001	Development Services Administrator	1
DSD661281001	Senior Development Services Analyst	1
DSD661282001	Development Services Analyst	1
DSD661368001	Code Enforcement Supervisor	1
DSD661369001	Code Enforcement Inspector I/II	1
DSD661369002	Code Enforcement Inspector I/II	1
DSD661369003	Code Enforcement Inspector I/II	1
DSD661434001	Construction Inspector I/II	1
DSD661434002	Construction Inspector I/II	1
DSD661434003	Construction Inspector I/II	1
DSD661434004	Construction Inspector I/II	1
DSD661434005	Construction Inspector I/II	1
DSD661434006	Construction Inspector I/II	1
DSD661501001	Permits Supervisor	1
DSD661502001	Senior Permits Technician	1
DSD661672001	Development Technician I/II	1
DSD661672002	Development Technician I/II	1
DSD661672003	Development Technician I/II	1
DSD661676001	Development Services Director	1
DSD661695001	Development Services Manager	1
DSD662214001	GIS Technician I/II	1
DSD663412001	GIS Analyst I/II	1
DSD664957001	Office Assistant I/II	1
DSD664957002	Office Assistant I/II	1
DSD665279001	Permit Technician I/II	1
DSD665279002	Permit Technician I/II	1
DSD665279003	Permit Technician I/II	1
DSD665309001	Planning Manager	1
DSD665514001	Principal Engineer	1
DSD667117001	Senior Building Inspector	1
DSD667121001	Senior Construction Inspector	1
DSD667121002	Senior Construction Inspector	1
DSD667142002	Senior Engineer	1
DSD667142003	Senior Engineer	1
DSD667180001	Senior Planner	1
DSD667180002	Senior Planner	1
DSD667195001	Senior Building Plans Examiner	1

Total for Department:	DSD Development Services	68
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Position Code	Position Title	Allocated FTE
EDD540050001	Administrative Analyst I/II	1
EDD541001001	Economic Development Project Manager	1
EDD541001002	Economic Development Project Manager	1
EDD541675001	Development Analyst I/II	1
EDD541710001	Economic Development Director	1
EDD542551001	Executive Assistant	1
EDD543402001	Housing Analyst I/II	1
EDD543402002	Housing Analyst I/II	1
EDD543402003	Housing Analyst I/II	1
EDD543589001	Housing Manager	1
EDD543592001	Housing Technician I/II	1
EDD543592002	Housing Technician I/II	1
EDD543592003	Housing Technician I/II	1
EDD544957001	Office Assistant I/II	1
EDD547148001	Senior Housing Technician	1

Total for Department:	EDD Economic Development	15
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Position Code	Position Title	Allocated FTE
ELE700071001	Administrative Assistant	1
ELE700084001	Administrative Technician	1
ELE700084002	Administrative Technician	1
ELE700084003	Administrative Technician	1
ELE700084004	Administrative Technician	1
ELE700395001	Assistant Electric Utility Director	1
ELE700395002	Assistant Electric Utility Director	1
ELE700395003	Assistant Electric Utility Director	1
ELE701023001	Senior Electric Technology Systems Analyst	1
ELE701312001	Electric Business Analyst I/II	1
ELE701312002	Electric Business Analyst I/II	1
ELE701312003	Electric Business Analyst I/II	1
ELE701312004	Electric Business Analyst I/II	1
ELE701312005	Electric Business Analyst I/II	1
ELE701312006	Electric Business Analyst I/II	1
ELE701505001	AMI Project Manager	1
ELE701548001	Data Management Specialist I/II	1
ELE701548002	Data Management Specialist I/II	1
ELE701645001	Department Public Information Officer	1
ELE701646001	Utility Government Relations Administrator	1

ELE701648001	Government Relations Representative I/II	1
ELE702212001	Electric Materials Technician I/II	1
ELE702212002	Electric Materials Technician I/II	1
ELE702212003	Electric Materials Technician I/II	1
ELE702212004	Electric Materials Technician I/II	1
ELE702215001	Electric Utility Financial Administrator	1
ELE702216001	Electric Risk and Compliance Supervisor	1
ELE702254001	Electric Preventive Data System Technician	1
ELE702284001	Electric Engineering Technician Supervisor	1
ELE702285001	Electric/Apprentice Line Technician	1
ELE702285002	Electric/Apprentice Line Technician	1
ELE702285003	Electric/Apprentice Line Technician	1
ELE702285004	Electric/Apprentice Line Technician	1
ELE702285005	Electric/Apprentice Line Technician	1
ELE702285006	Electric/Apprentice Line Technician	1
ELE702285007	Electric/Apprentice Line Technician	1
ELE702285008	Electric/Apprentice Line Technician	1
ELE702285009	Electric/Apprentice Line Technician	1
ELE702285010	Electric/Apprentice Line Technician	1
ELE702285011	Electric/Apprentice Line Technician	1
ELE702285012	Electric/Apprentice Line Technician	1
ELE702285013	Electric/Apprentice Line Technician	1
ELE702285014	Electric/Apprentice Line Technician	1
ELE702285015	Electric/Apprentice Line Technician	1
ELE702286001	Electric Line Troubleshooter	1
ELE702286002	Electric Line Troubleshooter	1
ELE702286003	Electric Line Troubleshooter	1
ELE702316001	Electric Resources Analyst I/II	1
ELE702316002	Electric Resources Analyst I/II	1
ELE702316003	Electric Resources Analyst I/II	1
ELE702316004	Electric Resources Analyst I/II	1
ELE702316005	Electric Resources Analyst I/II	1
ELE702319001	Electric Substation Supervisor	1
ELE702320001	Electric Utility Director	1
ELE702330001	Electric Drafting Technician I/II	1
ELE702330002	Electric Drafting Technician I/II	1
ELE702335001	Electric Compliance Analyst	1
ELE702335002	Electric Compliance Analyst	1
ELE702335003	Electric Compliance Analyst	1
ELE702338001	Electric Operations Manager	1
ELE702339001	Electric Operations Supervisor	1
ELE702339002	Electric Operations Supervisor	1
ELE702345001	Electric Engineering Technician I/II	1
ELE702345002	Electric Engineering Technician I/II	1
ELE702345003	Electric Engineering Technician I/II	1
ELE702345004	Electric Engineering Technician I/II	1
ELE702345005	Electric Engineering Technician I/II	1
ELE702350001	Electric System Dispatcher	1
ELE702350002	Electric System Dispatcher	1
ELE702350003	Electric System Dispatcher	1
ELE702352001	Electric Safety Coordinator	1
ELE702359001	Electric Technology System Technician	1
ELE702359002	Electric Technology System Technician	1
ELE702359003	Electric Technology System Technician	1
ELE702362001	Electric Utility Technician I/II	1
ELE702362002	Electric Utility Technician I/II	1
ELE702362003	Electric Utility Technician I/II	1
ELE702362004	Electric Utility Technician I/II	1
ELE702362005	Electric Utility Technician I/II	1
ELE702362006	Electric Utility Technician I/II	1
ELE702362007	Electric Utility Technician I/II	1
ELE702362008	Electric Utility Technician I/II	1
ELE702362009	Electric Utility Technician I/II	1
ELE702362010	Electric Utility Technician I/II	1
ELE702362011	Electric Utility Technician I/II	1
ELE702362012	Electric Utility Technician I/II	1
ELE702362013	Electric Utility Technician I/II	1
ELE702362014	Electric Utility Technician I/II	1
ELE702362015	Electric Utility Technician I/II	1
ELE702362016	Electric Utility Technician I/II	1
ELE702362017	Electric Utility Technician I/II	1
ELE702466001	Energy Program Technician	1
ELE702466002	Energy Program Technician	1
ELE702466003	Energy Program Technician	1
ELE702466004	Energy Program Technician	1
ELE702501001	Energy Services Account Representative I/II	1
ELE702501002	Energy Services Account Representative I/II	1
ELE703412001	GIS Analyst I/II	1
ELE703608001	Instrument and Control Technician	1
ELE703608002	Instrument and Control Technician	1
ELE703608003	Instrument and Control Technician	1
ELE704517001	Marketing and Communication Analyst I/II	1
ELE704957001	Office Assistant I/II	1
ELE704957002	Office Assistant I/II	1

ELE704957003	Office Assistant I/II	1
ELE704957004	Office Assistant I/II	1
ELE705505001	Power Engineering Manager	1
ELE705523001	Power Plant Operator Technician I/II	1
ELE705523002	Power Plant Operator Technician I/II	1
ELE705523003	Power Plant Operator Technician I/II	1
ELE705523004	Power Plant Operator Technician I/II	1
ELE705523005	Power Plant Operator Technician I/II	1
ELE705523006	Power Plant Operator Technician I/II	1
ELE705523007	Power Plant Operator Technician I/II	1
ELE705523008	Power Plant Operator Technician I/II	1
ELE705526001	Power Plant Mechanic	1
ELE705526002	Power Plant Mechanic	1
ELE705526003	Power Plant Mechanic	1
ELE705530001	Power Plant Operations and Maintenance Supervisor	1
ELE705530002	Power Plant Operations and Maintenance Supervisor	1
ELE705535001	Power Supply and Portfolio Administrator	1
ELE705555001	Senior Power Plant Engineer	1
ELE705591001	Power Plant Engineer I/II	1
ELE705596001	Power Engineer I/II	1
ELE705596002	Power Engineer I/II	1
ELE705596003	Power Engineer I/II	1
ELE705596004	Power Engineer I/II	1
ELE705600001	Power Generation Superintendent	1
ELE706285001	Electric Customer Programs Supervisor	1
ELE707118001	Senior Electric Line Technician	1
ELE707118002	Senior Electric Line Technician	1
ELE707118003	Senior Electric Line Technician	1
ELE707118004	Senior Electric Line Technician	1
ELE707118005	Senior Electric Line Technician	1
ELE707124001	Senior Electric Metering Technician	1
ELE707126001	Senior Electric Substation Technician	1
ELE707126002	Senior Electric Substation Technician	1
ELE707126003	Senior Electric Substation Technician	1
ELE707128001	Senior Electric Business Analyst	1
ELE707128002	Senior Electric Business Analyst	1
ELE707128003	Senior Electric Business Analyst	1
ELE707151001	Senior Power Engineer	1
ELE707151002	Senior Power Engineer	1
ELE707152001	Senior Power Plant Operator Technician	1
ELE707152002	Senior Power Plant Operator Technician	1
ELE707152003	Senior Power Plant Operator Technician	1
ELE707152004	Senior Power Plant Operator Technician	1
ELE707163001	Senior Energy Services Account Representative	1
ELE707163002	Senior Energy Services Account Representative	1
ELE707168001	Senior Electric System Dispatcher	1
ELE707169001	Senior Electric Materials Technician	1
ELE709250001	Electric Utility Inspection Technician	1
ELE709250002	Electric Utility Inspection Technician	1
ELE709560001	Electric Technology Systems Administrator	1
Total for Department:		ELE Electric Department 154

Position Code	Position Title	Allocated FTE
EUD740071001	Administrative Assistant	1
EUD740084001	Administrative Technician	1
EUD740084002	Administrative Technician	1
EUD740084004	Administrative Technician	1
EUD740411001	Assistant Environmental Utilities Director	1
EUD740411002	Assistant Environmental Utilities Director	1
EUD740411003	Assistant Environmental Utilities Director	1
EUD740820001	Associate Engineer	1
EUD740820002	Associate Engineer	1
EUD741002001	Hydrogeologist	1
EUD741003001	Administrative Supervisor	1
EUD741004001	Process Engineer	1
EUD741005001	Associate (PE)/Assistant/Junior Engineer	1
EUD741024001	Environmental Utilities Maintenance Superintendent	1
EUD741028001	Organics Truck Driver	1
EUD741279001	Senior Solid Waste Billing Technician	1
EUD741350001	Engineering Technician I/II	1
EUD741350002	Engineering Technician I/II	1
EUD741548001	Data Management Specialist I/II	1
EUD741548002	Data Management Specialist I/II	1
EUD741645001	Department Public Information Officer	1
EUD741646001	Utility Government Relations Administrator	1
EUD741646002	Utility Government Relations Administrator	1
EUD741672001	Development Technician I/II	1
EUD741684001	Environmental Utilities Director	1
EUD742385001	Electronics Technician I/II	1
EUD742385002	Electronics Technician I/II	1
EUD742385003	Electronics Technician I/II	1
EUD742385004	Electronics Technician I/II	1
EUD742385005	Electronics Technician I/II	1
EUD742541001	Environmental Utility Compliance Administrator	1
EUD742544001	Environmental Compliance Specialist I/II	1
EUD742544002	Environmental Compliance Specialist I/II	1
EUD742547001	Environmental Utilities Rate Analyst I/II	1
EUD742547002	Environmental Utilities Rate Analyst I/II	1
EUD742547003	Environmental Utilities Rate Analyst I/II	1
EUD742547004	Environmental Utilities Rate Analyst I/II	1
EUD742548001	Environmental Utilities Business Administrator	1
EUD743335001	Finance Clerk I/II	1
EUD743335002	Finance Clerk I/II	1
EUD743412001	GIS Analyst I/II	1
EUD743412002	GIS Analyst I/II	1
EUD743412003	GIS Analyst I/II	1
EUD743451001	Government Relations Administrator	1
EUD743604001	Industrial Waste Specialist	1
EUD743604002	Industrial Waste Specialist	1
EUD743610002	Industrial Waste Technician	1
EUD743732001	Interpretive Services Specialist I/II	1
EUD743733001	Senior Interpretive Services Specialist	1
EUD743740001	Interpretive Services Supervisor	1
EUD744020001	Laboratory Technician I/II	1
EUD744020002	Laboratory Technician I/II	1
EUD744020003	Laboratory Technician I/II	1
EUD744020004	Laboratory Technician I/II	1
EUD744020005	Laboratory Technician I/II	1
EUD744517001	Marketing and Communication Analyst I/II	1
EUD744517002	Marketing and Communication Analyst I/II	1
EUD744520001	Materials Technician	1
EUD744957001	Office Assistant I/II	1
EUD744957002	Office Assistant I/II	1
EUD744957003	Office Assistant I/II	1
EUD744957004	Office Assistant I/II	1
EUD744957005	Office Assistant I/II	1
EUD744957006	Office Assistant I/II	1
EUD744957007	Office Assistant I/II	1
EUD744957008	Office Assistant I/II	1
EUD744957009	Office Assistant I/II	1
EUD744957010	Office Assistant I/II	0.75
EUD744957011	Office Assistant I/II	1
EUD744957012	Office Assistant I/II	1
EUD741028001	Organics Truck Driver	1
EUD745319001	Plant and Equipment Maintenance Worker I/II	1
EUD745319002	Plant and Equipment Maintenance Worker I/II	1
EUD745328001	Plant and Equipment Mechanic I/II	1
EUD745328002	Plant and Equipment Mechanic I/II	1
EUD745328003	Plant and Equipment Mechanic I/II	1
EUD745328004	Plant and Equipment Mechanic I/II	1
EUD745328005	Plant and Equipment Mechanic I/II	1
EUD745328006	Plant and Equipment Mechanic I/II	1
EUD745402001	Predictive Maintenance Technician I/II	1
EUD745502001	Preventative Maintenance Technician I/II	1
EUD745502002	Preventative Maintenance Technician I/II	1

EUD745502003	Preventative Maintenance Technician I/II	1
EUD745514001	Principal Engineer	1
EUD745514002	Principal Engineer	1
EUD745519001	Preventative Maintenance Supervisor	1
EUD745519002	Preventative Maintenance Supervisor	1
EUD745533001	Preventative Maintenance Coordinator	1
EUD745533002	Preventative Maintenance Coordinator	1
EUD746150001	Recycling and Organics Coordinator	1
EUD746226001	Refuse Maintenance Worker I/II	1
EUD746226002	Refuse Maintenance Worker I/II	1
EUD746226003	Refuse Maintenance Worker I/II	1
EUD746226004	Refuse Maintenance Worker I/II	1
EUD746231001	Refuse Superintendent	1
EUD746235001	Refuse Supervisor	1
EUD746235002	Refuse Supervisor	1
EUD746244001	Refuse and Stormwater Manager	1
EUD746304001	Refuse Truck Driver I/II	1
EUD746304002	Refuse Truck Driver I/II	1
EUD746304003	Refuse Truck Driver I/II	1
EUD746304004	Refuse Truck Driver I/II	1
EUD746304005	Refuse Truck Driver I/II	1
EUD746304006	Refuse Truck Driver I/II	1
EUD746304008	Refuse Truck Driver I/II	1
EUD746304009	Refuse Truck Driver I/II	1
EUD746304010	Refuse Truck Driver I/II	1
EUD746304011	Refuse Truck Driver I/II	1
EUD746304012	Refuse Truck Driver I/II	1
EUD746304013	Refuse Truck Driver I/II	1
EUD746304014	Refuse Truck Driver I/II	1
EUD746304015	Refuse Truck Driver I/II	1
EUD746304016	Refuse Truck Driver I/II	1
EUD746304017	Refuse Truck Driver I/II	1
EUD746304018	Refuse Truck Driver I/II	1
EUD746304019	Refuse Truck Driver I/II	1
EUD746304020	Refuse Truck Driver I/II	1
EUD746304021	Refuse Truck Driver I/II	1
EUD746304022	Refuse Truck Driver I/II	1
EUD746304023	Refuse Truck Driver I/II	1
EUD746304024	Refuse Truck Driver I/II	1
EUD746304025	Refuse Truck Driver I/II	1
EUD746304026	Refuse Truck Driver I/II	1
EUD746304027	Refuse Truck Driver I/II	1
EUD746304028	Refuse Truck Driver I/II	1
EUD746304029	Refuse Truck Driver I/II	1
EUD746304030	Refuse Truck Driver I/II	1
EUD746304031	Refuse Truck Driver I/II	1
EUD746304032	Refuse Truck Driver I/II	1
EUD746304033	Refuse Truck Driver I/II	1
EUD746304034	Refuse Truck Driver I/II	1
EUD746304035	Refuse Truck Driver I/II	1
EUD746304036	Refuse Truck Driver I/II	1
EUD746500001	Safety Coordinator	1
EUD746500002	Safety Coordinator	1
EUD747020001	SCADA System Technician	1
EUD747020002	SCADA System Technician	1
EUD747129001	Senior Refuse Truck Driver	1
EUD747129002	Senior Refuse Truck Driver	1
EUD747129003	Senior Refuse Truck Driver	1
EUD747129004	Senior Refuse Truck Driver	1
EUD747129005	Senior Refuse Truck Driver	1
EUD747129006	Senior Refuse Truck Driver	1
EUD747142002	Senior Engineer	1
EUD747142003	Senior Engineer	1
EUD747142004	Senior Engineer	1
EUD747161001	Senior GIS Analyst	1
EUD747162001	Senior Engineering Technician	1
EUD747202001	Senior Wastewater Utility Maintenance Worker	1
EUD747202002	Senior Wastewater Utility Maintenance Worker	1
EUD747202003	Senior Wastewater Utility Maintenance Worker	1
EUD747202004	Senior Wastewater Utility Maintenance Worker	1
EUD747204001	Senior Water Distribution Worker	1
EUD747204002	Senior Water Distribution Worker	1
EUD747204003	Senior Water Distribution Worker	1
EUD747204004	Senior Water Distribution Worker	1
EUD747204005	Senior Water Distribution Worker	1
EUD747205001	Senior Plant and Equipment Mechanic	1
EUD747284001	Senior Preventative Maintenance Technician	1
EUD747284002	Senior Preventative Maintenance Technician	1
EUD747324001	Solid Waste Billing Technician	1
EUD748978001	Wastewater Collection Supervisor	1
EUD748978002	Wastewater Collection Supervisor	1
EUD748980001	Wastewater Collection Superintendent	1
EUD749010001	Wastewater Treatment Plant Operator Grade I/II	1
EUD749010002	Wastewater Treatment Plant Operator Grade I/II	1

EUD749010003	Wastewater Treatment Plant Operator Grade I/II	1
EUD749010004	Wastewater Treatment Plant Operator Grade I/II	1
EUD749010005	Wastewater Treatment Plant Operator Grade I/II	1
EUD749010006	Wastewater Treatment Plant Operator Grade I/II	1
EUD749020001	Wastewater Treatment Plant Operator Grade III 24Hr	1
EUD749020002	Wastewater Treatment Plant Operator Grade III 24Hr	1
EUD749020003	Wastewater Treatment Plant Operator Grade III 24Hr	1
EUD749020004	Wastewater Treatment Plant Operator Grade III 24Hr	1
EUD749025001	Wastewater Treatment Plant Operator Grade III 8Hr	1
EUD749025002	Wastewater Treatment Plant Operator Grade III 8Hr	1
EUD749025003	Wastewater Treatment Plant Operator Grade III 8Hr	1
EUD749025004	Wastewater Treatment Plant Operator Grade III 8Hr	1
EUD749029001	Wastewater Utility Maintenance Worker I/II	1
EUD749029002	Wastewater Utility Maintenance Worker I/II	1
EUD749029003	Wastewater Utility Maintenance Worker I/II	1
EUD749029004	Wastewater Utility Maintenance Worker I/II	1
EUD749029005	Wastewater Utility Maintenance Worker I/II	1
EUD749029006	Wastewater Utility Maintenance Worker I/II	1
EUD749029007	Wastewater Utility Maintenance Worker I/II	1
EUD749029008	Wastewater Utility Maintenance Worker I/II	1
EUD749029009	Wastewater Utility Maintenance Worker I/II	1
EUD749029010	Wastewater Utility Maintenance Worker I/II	1
EUD749029011	Wastewater Utility Maintenance Worker I/II	1
EUD749029012	Wastewater Utility Maintenance Worker I/II	1
EUD749029013	Wastewater Utility Maintenance Worker I/II	1
EUD749029014	Wastewater Utility Maintenance Worker I/II	1
EUD749029015	Wastewater Utility Maintenance Worker I/II	1
EUD749029016	Wastewater Utility Maintenance Worker I/II	1
EUD749029017	Wastewater Utility Maintenance Worker I/II	1
EUD749029018	Wastewater Utility Maintenance Worker I/II	1
EUD749029019	Wastewater Utility Maintenance Worker I/II	1
EUD749029020	Wastewater Utility Maintenance Worker I/II	1
EUD749029021	Wastewater Utility Maintenance Worker I/II	1
EUD749029022	Wastewater Utility Maintenance Worker I/II	1
EUD749029023	Wastewater Utility Maintenance Worker I/II	1
EUD749030001	Wastewater Treatment Plant Operator Grade IV	1
EUD749040001	Wastewater Treatment Plant Chief Operator	1
EUD749047001	Water Conservation Administrator	1
EUD749051001	Water Conservation Worker I/II	1
EUD749051002	Water Conservation Worker I/II	1
EUD749051003	Water Conservation Worker I/II	1
EUD749051004	Water Conservation Worker I/II	1
EUD749078001	Water Conservation Specialist	1
EUD749084001	Water Distribution Supervisor	1
EUD749084002	Water Distribution Supervisor	1
EUD749084003	Water Distribution Supervisor	1
EUD749084004	Water Distribution Supervisor	1
EUD749085001	Water Distribution Superintendent	1
EUD749101001	Water Quality Lab Supervisor	1
EUD749175001	Water Treatment Plant Chief Operator	1
EUD749230001	Water Treatment Plant Operator Grade III 24Hr	1
EUD749230002	Water Treatment Plant Operator Grade III 24Hr	1
EUD749230003	Water Treatment Plant Operator Grade III 24Hr	1
EUD749230004	Water Treatment Plant Operator Grade III 24Hr	1
EUD749230005	Water Treatment Plant Operator Grade III 24Hr	1
EUD749234001	Water Treatment Plant Operator Grade I/II 24Hr	1
EUD749248001	Water Distribution Worker I/II	1
EUD749248002	Water Distribution Worker I/II	1
EUD749248003	Water Distribution Worker I/II	1
EUD749248004	Water Distribution Worker I/II	1
EUD749248005	Water Distribution Worker I/II	1
EUD749248006	Water Distribution Worker I/II	1
EUD749248007	Water Distribution Worker I/II	1
EUD749248008	Water Distribution Worker I/II	1
EUD749248009	Water Distribution Worker I/II	1
EUD749248010	Water Distribution Worker I/II	1
EUD749248011	Water Distribution Worker I/II	1
EUD749248012	Water Distribution Worker I/II	1
EUD749248013	Water Distribution Worker I/II	1
EUD749248014	Water Distribution Worker I/II	1
EUD749248015	Water Distribution Worker I/II	1
EUD749248016	Water Distribution Worker I/II	1
EUD749248017	Water Distribution Worker I/II	1
EUD749248018	Water Distribution Worker I/II	1
EUD749248019	Water Distribution Worker I/II	1
EUD749248020	Water Distribution Worker I/II	1
EUD749248021	Water Distribution Worker I/II	1
EUD749248022	Water Distribution Worker I/II	1
EUD749550001	ERP Business Analyst I/II	1
EUD749559001	Senior SCADA System Technician	1
EUD749561001	Data Management System Administrator	1

Total for Department:	EUD Environmental Utilities	245.75
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Position Code	Position Title	Allocated FTE
FIN240040001	Accountant I/II	1
FIN240040002	Accountant I/II	1
FIN240043001	Accounting Supervisor	1
FIN240050001	Administrative Analyst I/II	1
FIN240071001	Administrative Assistant	1
FIN240084001	Administrative Technician	1
FIN240915001	Budget Analyst I/II	1
FIN240915002	Budget Analyst I/II	1
FIN240915003	Budget Analyst I/II	0.75
FIN240920001	Billing Services Manager	1
FIN240930001	Budget Manager	1
FIN241021001	Assistant City Manager/Chief Financial Officer	1
FIN241029001	Senior Utility Billing Analyst	1
FIN241060001	Buyer I/II	1
FIN241060002	Buyer I/II	1
FIN241060003	Buyer I/II	1
FIN241370001	Controller	1
FIN241450001	Courier	1
FIN2421026001	Assistant Finance Director	1
FIN242900001	Finance Manager	1
FIN243310001	Finance Supervisor	1
FIN243310002	Finance Supervisor	1
FIN243315001	Finance Utility Billing Analyst I/II	1
FIN243315002	Finance Utility Billing Analyst I/II	1
FIN243315003	Finance Utility Billing Analyst I/II	1
FIN243318001	Financial Analyst I/II	1
FIN243318002	Financial Analyst I/II	1
FIN243318003	Financial Analyst I/II	1
FIN243326001	Finance Technician I/II	1
FIN243326002	Finance Technician I/II	1
FIN243326003	Finance Technician I/II	1
FIN243326004	Finance Technician I/II	1
FIN243326005	Finance Technician I/II	1
FIN243326006	Finance Technician I/II	1
FIN243335001	Finance Clerk I/II	1
FIN243335002	Finance Clerk I/II	1
FIN243335003	Finance Clerk I/II	0.5
FIN243335004	Finance Clerk I/II	1
FIN243335005	Finance Clerk I/II	1
FIN243335006	Finance Clerk I/II	1
FIN243335007	Finance Clerk I/II	1
FIN243335008	Finance Clerk I/II	1
FIN243335009	Finance Clerk I/II	1
FIN243335010	Finance Clerk I/II	1
FIN243335011	Finance Clerk I/II	1
FIN243335012	Finance Clerk I/II	1
FIN243335013	Finance Clerk I/II	1
FIN243335014	Finance Clerk I/II	1
FIN243335015	Finance Clerk I/II	1
FIN243335016	Finance Clerk I/II	1
FIN243335017	Finance Clerk I/II	0.5
FIN243335018	Finance Clerk I/II	0.75
FIN244517001	Marketing and Communication Analyst I/II	0.5
FIN244534001	Meter Service Worker	1
FIN244540001	Meter Reader	1
FIN244540002	Meter Reader	1
FIN244540003	Meter Reader	1
FIN244957001	Office Assistant I/II	0.625
FIN245101001	Payroll Technician I/II	1
FIN245101002	Payroll Technician I/II	1
FIN245103001	Payroll Clerk I/II	0.6
FIN245103002	Payroll Clerk I/II	1
FIN245652001	Purchasing and Warehouse Manager	1
FIN246520001	ERP Manager	1
FIN247139001	Senior Buyer	1
FIN247147001	Senior Finance Technician	1
FIN247147002	Senior Finance Technician	1
FIN247200001	Senior Meter Service Worker	1
FIN247203001	Senior Warehouse Worker	1
FIN248952001	Warehouse Worker I/II	1
FIN249427001	Accounts Payable Supervisor	1
FIN249428001	Payroll Supervisor	1
FIN249550001	ERP Business Analyst I/II	1
FIN249550002	ERP Business Analyst I/II	1
FIN249550003	ERP Business Analyst I/II	1

Total for Department:	FIN Finance Department	72.225
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Position Code	Position Title	Allocated FTE
FIR480050001	Administrative Analyst I/II	1
FIR480071001	Administrative Assistant	1
FIR480084001	Administrative Technician	1
FIR480480001	Assistant Fire Chief	1
FIR480480002	Assistant Fire Chief	1
FIR480905002	Fire Battalion Chief	1
FIR480905003	Fire Battalion Chief	1
FIR480905004	Fire Battalion Chief	1
FIR480905005	Fire Battalion Chief	1
FIR480905006	Fire Battalion Chief	1
FIR481022001	Fire and Environmental Inspection Supervisor	1
FIR481645001	Department Public Information Officer	1
FIR482415001	EMS Quality Assurance Coordinator	1
FIR483320001	Fire Captain	1
FIR483320002	Fire Captain	1
FIR483320003	Fire Captain	1
FIR483320004	Fire Captain	1
FIR483320005	Fire Captain	1
FIR483320006	Fire Captain	1
FIR483320007	Fire Captain	1
FIR483320008	Fire Captain	1
FIR483320009	Fire Captain	1
FIR483320010	Fire Captain	1
FIR483320011	Fire Captain	1
FIR483320012	Fire Captain	1
FIR483320013	Fire Captain	1
FIR483320014	Fire Captain	1
FIR483320015	Fire Captain	1
FIR483320016	Fire Captain	1
FIR483320017	Fire Captain	1
FIR483320018	Fire Captain	1
FIR483320019	Fire Captain	1
FIR483320020	Fire Captain	1
FIR483320021	Fire Captain	1
FIR483320022	Fire Captain	1
FIR483320023	Fire Captain	1
FIR483320024	Fire Captain	1
FIR483320025	Fire Captain	1
FIR483320026	Fire Captain	1
FIR483320027	Fire Captain	1
FIR483320028	Fire Captain	1
FIR483320029	Fire Captain	1
FIR483320030	Fire Captain	1
FIR483330001	Fire Chief	1
FIR483332001	Fire Division Chief	1
FIR483332002	Fire Division Chief	1
FIR483340001	Fire Engineer	1
FIR483340002	Fire Engineer	1
FIR483340003	Fire Engineer	1
FIR483340004	Fire Engineer	1
FIR483340005	Fire Engineer	1
FIR483340006	Fire Engineer	1
FIR483340007	Fire Engineer	1
FIR483340008	Fire Engineer	1
FIR483340009	Fire Engineer	1
FIR483340010	Fire Engineer	1
FIR483340011	Fire Engineer	1
FIR483340012	Fire Engineer	1
FIR483340013	Fire Engineer	1
FIR483340014	Fire Engineer	1
FIR483340015	Fire Engineer	1

FIR483340016	Fire Engineer	1
FIR483340017	Fire Engineer	1
FIR483340018	Fire Engineer	1
FIR483340019	Fire Engineer	1
FIR483340020	Fire Engineer	1
FIR483340021	Fire Engineer	1
FIR483340022	Fire Engineer	1
FIR483340023	Fire Engineer	1
FIR483340024	Fire Engineer	1
FIR483340025	Fire Engineer	1
FIR483340026	Fire Engineer	1
FIR483340027	Fire Engineer	1
FIR483340028	Fire Engineer	1
FIR483340029	Fire Engineer	1
FIR483340030	Fire Engineer	1
FIR483355001	Firefighter Paramedic I/II	1
FIR483355002	Firefighter Paramedic I/II	1
FIR483355003	Firefighter Paramedic I/II	1
FIR483355004	Firefighter Paramedic I/II	1
FIR483355005	Firefighter Paramedic I/II	1
FIR483355006	Firefighter Paramedic I/II	1
FIR483355007	Firefighter Paramedic I/II	1
FIR483355008	Firefighter Paramedic I/II	1
FIR483355009	Firefighter Paramedic I/II	1
FIR483355010	Firefighter Paramedic I/II	1
FIR483355011	Firefighter Paramedic I/II	1
FIR483355012	Firefighter Paramedic I/II	1
FIR483355013	Firefighter Paramedic I/II	1
FIR483355014	Firefighter Paramedic I/II	1
FIR483355015	Firefighter Paramedic I/II	1
FIR483355016	Firefighter Paramedic I/II	1
FIR483355017	Firefighter Paramedic I/II	1
FIR483355018	Firefighter Paramedic I/II	1
FIR483355019	Firefighter Paramedic I/II	1
FIR483355020	Firefighter Paramedic I/II	1
FIR483355021	Firefighter Paramedic I/II	1
FIR483355022	Firefighter Paramedic I/II	1
FIR483355023	Firefighter Paramedic I/II	1
FIR483355024	Firefighter Paramedic I/II	1
FIR483355025	Firefighter Paramedic I/II	1
FIR483355026	Firefighter Paramedic I/II	1
FIR483355027	Firefighter Paramedic I/II	1
FIR483355028	Firefighter Paramedic I/II	1
FIR483355029	Firefighter Paramedic I/II	1
FIR483355030	Firefighter Paramedic I/II	1
FIR483355031	Firefighter Paramedic I/II	1
FIR483355032	Firefighter Paramedic I/II	1
FIR483355033	Firefighter Paramedic I/II	1
FIR483355034	Firefighter Paramedic I/II	1
FIR483355035	Firefighter Paramedic I/II	1
FIR483355036	Firefighter Paramedic I/II	1
FIR483377001	Fire and Environmental Safety Inspector I/II	1
FIR483377002	Fire and Environmental Safety Inspector I/II	1
FIR483377003	Fire and Environmental Safety Inspector I/II	1
FIR483377004	Fire and Environmental Safety Inspector I/II	1
FIR483377005	Fire and Environmental Safety Inspector I/II	1
FIR483412001	GIS Analyst I/II	1
FIR484957001	Office Assistant I/II	1

Total for Department:	FIR Fire Department	119
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Position Code	Position Title	Allocated FTE
HRD280071001	Administrative Assistant	1
HRD280484001	Assistant Human Resources Director	1
HRD283596001	Human Resources Analyst I/II	1
HRD283596002	Human Resources Analyst I/II	1
HRD283598001	Human Resources Director	1
HRD283599001	Human Resources Manager	1
HRD285235001	Human Resources Technician	1
HRD285235002	Human Resources Technician	1
HRD285235003	Human Resources Technician	1
HRD285235004	Human Resources Technician	1
HRD285235005	Human Resources Technician	1
HRD285235006	Human Resources Technician	1
HRD286450001	Risk Manager	1
HRD287178001	Senior Human Resources Technician	1
HRD287178002	Senior Human Resources Technician	1

Total for Department:	HRD Human Resources	15
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Position Code	Position Title	Allocated FTE
ITD320084001	Administrative Technician	1
ITD321180001	Chief Information Officer	1
ITD321362001	Business Systems Analyst I/II	1
ITD321362002	Business Systems Analyst I/II	1
ITD321362003	Business Systems Analyst I/II	1
ITD321362004	Business Systems Analyst I/II	1
ITD321362005	Business Systems Analyst I/II	1
ITD321362006	Business Systems Analyst I/II	1
ITD321362007	Business Systems Analyst I/II	1
ITD321362008	Business Systems Analyst I/II	1
ITD321362009	Business Systems Analyst I/II	1
ITD321362010	Business Systems Analyst I/II	1
ITD321362011	Business Systems Analyst I/II	1
ITD321362012	Business Systems Analyst I/II	1
ITD321552001	Database Analyst I/II	1
ITD321552002	Database Analyst I/II	1
ITD321552003	Database Analyst I/II	1
ITD323602001	Information Technology Program Manager	1
ITD323602002	Information Technology Program Manager	1
ITD323602003	Information Technology Program Manager	1
ITD323602004	Information Technology Program Manager	1
ITD323602005	Information Technology Program Manager	1
ITD323618001	Information Technology Technician I/II	1
ITD323618002	Information Technology Technician I/II	1
ITD323618003	Information Technology Technician I/II	1
ITD323625001	Information Security Administrator	1
ITD323794001	Information Technology Analyst I/II	1
ITD323794002	Information Technology Analyst I/II	1
ITD323794003	Information Technology Analyst I/II	1
ITD323794004	Information Technology Analyst I/II	1
ITD323794005	Information Technology Analyst I/II	1
ITD323794006	Information Technology Analyst I/II	1
ITD323794007	Information Technology Analyst I/II	1
ITD323794008	Information Technology Analyst I/II	1
ITD323794009	Information Technology Analyst I/II	1
ITD323794010	Information Technology Analyst I/II	1
ITD327130001	Senior Business Systems Analyst	1
ITD327130002	Senior Business Systems Analyst	1
ITD327130003	Senior Business Systems Analyst	1
ITD327130004	Senior Business Systems Analyst	1
ITD327145001	Senior Database Analyst	1
ITD327149001	Senior Information Technology Technician	1
ITD327149002	Senior Information Technology Technician	1
ITD327149003	Senior Information Technology Technician	1
ITD329542001	Information Technology Client Services Supervisor	1
ITD329558001	Assistant Information Technology Director	1
ITD329558002	Assistant Information Technology Director	1

Total for Department:	ITD Information Technology	47
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Position Code	Position Title	Allocated FTE
PAC181645001	Department Public Information Officer	1
PAC181659001	Deputy City Manager	1
PAC184517001	Marketing and Communication Analyst I/II	1
PAC184517002	Marketing and Communication Analyst I/II	1
PAC185565001	Public Information Officer	1
PAC188426001	Video and Multimedia Technician	1

Total for Department:	PAC Public Affairs and	6
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Position Code	Position Title	Allocated FTE
POL440050001	Administrative Analyst I/II	1
POL440071001	Administrative Assistant	1
POL440100001	Animal Control Officer	1
POL440100002	Animal Control Officer	1
POL440110001	Animal Control Supervisor	1
POL441039001	Police Social Services Practitioner	1
POL441380001	Community Services Officer I/II	1
POL441380002	Community Services Officer I/II	1
POL441380003	Community Services Officer I/II	1
POL441380004	Community Services Officer I/II	1
POL441380005	Community Services Officer I/II	1
POL441380006	Community Services Officer I/II	1
POL441380007	Community Services Officer I/II	1
POL441380008	Community Services Officer I/II	1
POL441380009	Community Services Officer I/II	1

POL441430001	Communications Supervisor	1
POL441430002	Communications Supervisor	1
POL441430003	Communications Supervisor	1
POL441475001	Crime Analyst	1
POL441475002	Crime Analyst	1
POL441645001	Department Public Information Officer	1
POL441700001	Dispatcher I/II	1
POL441700002	Dispatcher I/II	1
POL441700003	Dispatcher I/II	1
POL441700004	Dispatcher I/II	1
POL441700005	Dispatcher I/II	1
POL441700006	Dispatcher I/II	1
POL441700007	Dispatcher I/II	1
POL441700008	Dispatcher I/II	1
POL441700009	Dispatcher I/II	1
POL441700010	Dispatcher I/II	1
POL441700011	Dispatcher I/II	1
POL441700012	Dispatcher I/II	1
POL441700013	Dispatcher I/II	1
POL441700014	Dispatcher I/II	1
POL441700015	Dispatcher I/II	1
POL441700016	Dispatcher I/II	1
POL441700017	Dispatcher I/II	1
POL441700018	Dispatcher I/II	1
POL441700019	Dispatcher I/II	1
POL441700020	Dispatcher I/II	1
POL445400001	Police Captain	1
POL445400002	Police Captain	1
POL445400003	Police Captain	1
POL445410001	Police Chief	1
POL445420001	Police Lieutenant	1
POL445420002	Police Lieutenant	1
POL445420003	Police Lieutenant	1
POL445420004	Police Lieutenant	1
POL445420005	Police Lieutenant	1
POL445420006	Police Lieutenant	1
POL445420007	Police Lieutenant	1
POL445429001	Police Property and Evidence Sup	1
POL445430001	Police Officer/Police Trainee	1
POL445430002	Police Officer/Police Trainee	1
POL445430003	Police Officer/Police Trainee	1
POL445430004	Police Officer/Police Trainee	1
POL445430005	Police Officer/Police Trainee	1
POL445430006	Police Officer/Police Trainee	1
POL445430007	Police Officer/Police Trainee	1
POL445430008	Police Officer/Police Trainee	1
POL445430009	Police Officer/Police Trainee	1
POL445430010	Police Officer/Police Trainee	1
POL445430011	Police Officer/Police Trainee	1
POL445430012	Police Officer/Police Trainee	1
POL445430013	Police Officer/Police Trainee	1
POL445430014	Police Officer/Police Trainee	1
POL445430015	Police Officer/Police Trainee	1
POL445430016	Police Officer/Police Trainee	1
POL445430017	Police Officer/Police Trainee	1
POL445430018	Police Officer/Police Trainee	1
POL445430019	Police Officer/Police Trainee	1
POL445430020	Police Officer/Police Trainee	1
POL445430021	Police Officer/Police Trainee	1
POL445430022	Police Officer/Police Trainee	1
POL445430023	Police Officer/Police Trainee	1
POL445430024	Police Officer/Police Trainee	1
POL445430025	Police Officer/Police Trainee	1
POL445430026	Police Officer/Police Trainee	1
POL445430027	Police Officer/Police Trainee	1
POL445430028	Police Officer/Police Trainee	1
POL445430029	Police Officer/Police Trainee	1
POL445430030	Police Officer/Police Trainee	1
POL445430031	Police Officer/Police Trainee	1
POL445430032	Police Officer/Police Trainee	1
POL445430033	Police Officer/Police Trainee	1
POL445430034	Police Officer/Police Trainee	1
POL445430035	Police Officer/Police Trainee	1
POL445430036	Police Officer/Police Trainee	1
POL445430037	Police Officer/Police Trainee	1
POL445430038	Police Officer/Police Trainee	1
POL445430039	Police Officer/Police Trainee	1
POL445430040	Police Officer/Police Trainee	1
POL445430041	Police Officer/Police Trainee	1
POL445430042	Police Officer/Police Trainee	1
POL445430043	Police Officer/Police Trainee	1
POL445430044	Police Officer/Police Trainee	1
POL445430045	Police Officer/Police Trainee	1
POL445430046	Police Officer/Police Trainee	1

[illegible]

POL445470006	Police Sergeant	1
POL445470007	Police Sergeant	1
POL445470008	Police Sergeant	1
POL445470009	Police Sergeant	1
POL445470010	Police Sergeant	1
POL445470011	Police Sergeant	1
POL445470012	Police Sergeant	1
POL445470013	Police Sergeant	1
POL445470014	Police Sergeant	1
POL445470015	Police Sergeant	1
POL445489001	Police Services Administrator	1
POL445489002	Police Services Administrator	1
POL445494001	Police Scene Technician I/II	1
POL445494002	Police Scene Technician I/II	1
POL445494003	Police Scene Technician I/II	1
POL445494004	Police Scene Technician I/II	1
POL445657001	Public Safety Program Coordinator	1
POL445710001	Rangemaster	1
POL445748001	Records Supervisor	1
Total for Department:		POL Police Department 202

Position Code	Position Title	Allocated FTE
PRL580050001	Administrative Analyst I/II	1
PRL580050002	Administrative Analyst I/II	1
PRL580071001	Administrative Assistant	1
PRL580084001	Administrative Technician	1
PRL580084002	Administrative Technician	1
PRL580084003	Administrative Technician	1
PRL580084004	Administrative Technician	1
PRL580084005	Administrative Technician	1
PRL580084006	Administrative Technician	1
PRL580376001	Assistant Child Care Site Coordinator	1
PRL580376002	Assistant Child Care Site Coordinator	1
PRL581225001	Child Care Site Coordinator	1
PRL581225002	Child Care Site Coordinator	1
PRL581225003	Child Care Site Coordinator	1
PRL581225004	Child Care Site Coordinator	1
PRL581225005	Child Care Site Coordinator	1
PRL581225006	Child Care Site Coordinator	1
PRL581225007	Child Care Site Coordinator	1
PRL581225008	Child Care Site Coordinator	1
PRL581278001	Parks Project Technician	1
PRL581278002	Parks Project Technician	1
PRL581278003	Parks Project Technician	1
PRL581278004	Parks Project Technician	1
PRL581504001	Tree Trimmer I/II	1
PRL581504002	Tree Trimmer I/II	1
PRL581641001	Youth Development Program Coordinator	1
PRL581641002	Youth Development Program Coordinator	1
PRL581641003	Youth Development Program Coordinator	1
PRL581641004	Youth Development Program Coordinator	1
PRL581641005	Youth Development Program Coordinator	1
PRL583733001	Senior Interpretive Services Specialist	1
PRL584152001	Librarian I/II	1
PRL584152002	Librarian I/II	1
PRL584152003	Librarian I/II	1
PRL584152004	Librarian I/II	1
PRL584152005	Librarian I/II	1
PRL584152006	Librarian I/II	1
PRL584152007	Librarian I/II	0.5
PRL584210001	Library Assistant I/II	1
PRL584210002	Library Assistant I/II	1
PRL584210003	Library Assistant I/II	1
PRL584210005	Library Assistant I/II	1
PRL584250001	Library Technician	1
PRL584250002	Library Technician	1
PRL584250003	Library Technician	1
PRL584517001	Marketing and Communication Analyst I/II	1
PRL584957001	Office Assistant I/II	1
PRL584957002	Office Assistant I/II	1
PRL584957003	Office Assistant I/II	1
PRL584957004	Office Assistant I/II	1
PRL584957005	Office Assistant I/II	1
PRL584957006	Office Assistant I/II	1
PRL584957007	Office Assistant I/II	1
PRL584957008	Office Assistant I/II	1
PRL584957009	Office Assistant I/II	1
PRL585022001	Park Development Analyst I/II	1
PRL585022002	Park Development Analyst I/II	1
PRL585024001	Parks Planning and Development Superintendent	1

PRL585069001	Parks Supervisor	1
PRL585069002	Parks Supervisor	1
PRL585069003	Parks Supervisor	1
PRL585075001	Irrigation Technician	1
PRL585075002	Irrigation technician	1
PRL585080001	Parks Maintenance Worker I/II	1
PRL585080002	Parks Maintenance Worker I/II	1
PRL585080003	Parks Maintenance Worker I/II	1
PRL585080004	Parks Maintenance Worker I/II	1
PRL585080005	Parks Maintenance Worker I/II	1
PRL585080006	Parks Maintenance Worker I/II	1
PRL585080007	Parks Maintenance Worker I/II	1
PRL585080008	Parks Maintenance Worker I/II	1
PRL585080009	Parks Maintenance Worker I/II	1
PRL585080011	Parks Maintenance Worker I/II	1
PRL585080012	Parks Maintenance Worker I/II	1
PRL585080013	Parks Maintenance Worker I/II	1
PRL585080014	Parks Maintenance Worker I/II	1
PRL585080015	Parks Maintenance Worker I/II	1
PRL585080016	Parks Maintenance Worker I/II	1
PRL585080017	Parks Maintenance Worker I/II	1
PRL585082001	Parks Recreation and Libraries Director	1
PRL587192002	Senior Parks Maintenance Worker	1
PRL587192003	Senior Parks Maintenance Worker	1
PRL587192004	Senior Parks Maintenance Worker	1
PRL587192005	Senior Parks Maintenance Worker	1
PRL587192006	Senior Parks Maintenance Worker	1
PRL587192009	Senior Parks Maintenance Worker	1
PRL588300001	Arborist Technician	1
PRL588302001	Aquatics Maintenance Technician	1
PRL588762001	Urban Forester	1
PRL589543001	Parks Recreation and Libraries Coordinator I/II	1
PRL589543002	Parks Recreation and Libraries Coordinator I/II	1
PRL589543003	Parks Recreation and Libraries Coordinator I/II	1
PRL589543004	Parks Recreation and Libraries Coordinator I/II	1
PRL589543005	Parks Recreation and Libraries Coordinator I/II	1
PRL589543006	Parks Recreation and Libraries Coordinator I/II	1
PRL589543007	Parks Recreation and Libraries Coordinator I/II	1
PRL589543008	Parks Recreation and Libraries Recreation Coordinator I/II	1
PRL589544001	Recreation and Library Supervisor	1
PRL589544002	Recreation and Library Supervisor	1
PRL589544003	Recreation and Library Supervisor	1
PRL589544004	Recreation and Library Supervisor	1
PRL589544005	Recreation and Library Supervisor	1
PRL589544006	Recreation and Library Supervisor	1
PRL589544007	Recreation and Library Supervisor	1
PRL589544008	Recreation and Library Supervisor	1
PRL589544009	Recreation and Library Supervisor	1
PRL589545001	Natural Resources Specialist I/II	1
PRL589546001	Parks Recreation and Libraries Superintendent	1
PRL589546002	Parks Recreation and Libraries Superintendent	1
PRL589546003	Parks Recreation and Libraries Superintendent	1
PRL589546004	Parks Recreation and Libraries Superintendent	1
PRL589546005	Parks Recreation and Libraries Superintendent	1
PRL589547001	Parks Recreation and Libraries Manager	1
PRL589547002	Parks Recreation and Libraries Manager	1
PRL589547003	Parks Recreation and Libraries Manager	1

Total for Department:	PRL Parks Recreation and	114.5
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Position Code	Position Title	Allocated FTE
PWD620050001	Administrative Analyst I/II	1
PWD620071001	Administrative Assistant	1
PWD620084001	Administrative Technician	1
PWD620084002	Administrative Technician	1
PWD620084003	Administrative Technician	1
PWD620084004	Administrative Technician	1
PWD620084005	Administrative Technician	0.75
PWD620088001	Alternative Transportation Analyst I/II	1
PWD620088002	Alternative Transportation Analyst I/II	1
PWD620088003	Alternative Transportation Analyst I/II	0.75
PWD620090001	Alternative Transportation Manager	1
PWD621005001	Associate (PE)/Assistant/Junior Engineer	1
PWD621005002	Associate (PE)/Assistant/Junior Engineer	1
PWD621005003	Associate (PE)/Assistant/Junior Engineer	1
PWD621005004	Associate (PE)/Assistant/Junior Engineer	1
PWD621005005	Associate (PE)/Assistant/Junior Engineer	1
PWD621005006	Associate (PE)/Assistant/Junior Engineer	1
PWD621005007	Associate (PE)/Assistant/Junior Engineer	1
PWD621005008	Associate (PE)/Assistant/Junior Engineer	1
PWD621005009	Associate (PE)/Assistant/Junior Engineer	1
PWD621005010	Associate (PE)/Assistant/Junior Engineer	1

PWD621025001	Custodian Supervisor	1
PWD621032001	Building Maintenance Worker I/II	1
PWD621032002	Building Maintenance Worker I/II	1
PWD621032003	Building Maintenance Worker I/II	1
PWD621032004	Building Maintenance Worker I/II	1
PWD621032005	Building Maintenance Worker I/II	1
PWD621350001	Engineering Technician I/II	1
PWD621401001	Community Relations Analyst	0.75
PWD621485002	Custodian	1
PWD621485003	Custodian	1
PWD621485004	Custodian	1
PWD621485005	Custodian	1
PWD622214001	GIS Technician I/II	1
PWD622376001	Traffic Signal Maintenance Worker I/II	1
PWD622376002	Traffic Signal Maintenance Worker I/II	1
PWD622385001	Electronics Technician I/II	1
PWD622385002	Electronics Technician I/II	1
PWD622385003	Electronics Technician I/II	1
PWD622385004	Electronics Technician I/II	1
PWD622560001	Equipment Serviceworker	1
PWD622560002	Equipment Serviceworker	1
PWD622560003	Equipment Serviceworker	1
PWD622560004	Equipment Serviceworker	1
PWD622565001	Equipment Maintenance Supervisor	1
PWD623318001	Financial Analyst I/II	1
PWD623319001	Fleet Management Technician	1
PWD623392001	Fleet Manager	1
PWD623395001	Facilities Manager	1
PWD624321001	Facilities Supervisor	1
PWD624501001	Mechanic I/II	1
PWD624501002	Mechanic I/II	1
PWD624501003	Mechanic I/II	1
PWD624501004	Mechanic I/II	1
PWD624501005	Mechanic I/II	1
PWD624501006	Mechanic I/II	1
PWD624501007	Mechanic I/II	1
PWD624501008	Mechanic I/II	1
PWD624957001	Office Assistant I/II	1
PWD624957002	Office Assistant I/II	1
PWD624957003	Office Assistant I/II	1
PWD624957004	Office Assistant I/II	1
PWD625514001	Principal Engineer	1
PWD625519001	Preventative Maintenance Supervisor	1
PWD625560001	Project Coordinator	1
PWD625560002	Project Coordinator	1
PWD625635001	Public Works Director	1
PWD627119001	Senior Building Maintenance Worker	1
PWD627142001	Senior Engineer	1
PWD627142002	Senior Engineer	1
PWD627142003	Senior Engineer	1
PWD627170001	Senior Electronic Technician	1
PWD627187001	Senior Street Maintenance Worker	1
PWD627187002	Senior Street Maintenance Worker	1
PWD627187003	Senior Street Maintenance Worker	1
PWD627187004	Senior Street Maintenance Worker	1
PWD627187005	Senior Street Maintenance Worker	1
PWD627187006	Senior Street Maintenance Worker	1
PWD627189001	Senior Mechanic	1
PWD627189002	Senior Mechanic	1
PWD627520001	Street Maintenance Superintendent	1
PWD627522001	Street Maintenance Supervisor	1
PWD627522002	Street Maintenance Supervisor	1
PWD627522003	Street Maintenance Supervisor	1
PWD627530001	Street Maintenance Worker I/II	1
PWD627530002	Street Maintenance Worker I/II	1
PWD627530003	Street Maintenance Worker I/II	1
PWD627530004	Street Maintenance Worker I/II	1
PWD627530005	Street Maintenance Worker I/II	1
PWD627530006	Street Maintenance Worker I/II	1
PWD627530007	Street Maintenance Worker I/II	1
PWD627530008	Street Maintenance Worker I/II	1
PWD627530009	Street Maintenance Worker I/II	1
PWD627530010	Street Maintenance Worker I/II	1
PWD627530011	Street Maintenance Worker I/II	1
PWD627530012	Street Maintenance Worker I/II	1
PWD627530013	Street Maintenance Worker I/II	1
PWD627530014	Street Maintenance Worker I/II	1
PWD627530015	Street Maintenance Worker I/II	1
PWD627530016	Street Maintenance Worker I/II	1
PWD627530017	Street Maintenance Worker I/II	1
PWD627530018	Street Maintenance Worker I/II	1
PWD627530019	Street Maintenance Worker I/II	1
PWD627540001	Street Sweeper Operator	1
PWD627540002	Street Sweeper Operator	1

PWD627540003	Street Sweeper Operator	1
PWD627540004	Street Sweeper Operator	1
PWD627540005	Street Sweeper Operator	1
PWD628938001	Vehicle Maintenance Parts Buyer	1
PWD628940001	Vehicle Maintenance Servicewriter	1
PWD628952001	Warehouse Worker I/II	1

Total for Department:	PWD Public Works	110.25
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Total for All Departments	Allocated FTE
	1,195.73



COUNCIL COMMUNICATION

CC #: 0752

File #: 0400-04-09

Title: Second Reading - West Roseville Specific Plan F-55 and W-60a - Rezone and Development Agreement

Contact: Shelby Vockel 916-746-1357 svockel@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.33.

RECOMMENDATION TO COUNCIL

ORDINANCE NO. 6221 OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND WEST ROSEVILLE LLC RELATIVE TO THE WEST ROSEVILLE SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE, for second reading and adoption.

BACKGROUND

Not applicable.

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

Not applicable.

Respectfully Submitted,

Shelby Vockel, Associate Planner

Mike Isom, Development Services Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance No. 6221

Ordinance No. 6222

ORDINANCE NO. 6221

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
ADOPTING A DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF
ROSEVILLE AND WEST ROSEVILLE LLC RELATIVE TO THE WEST ROSEVILLE
SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON
BEHALF OF THE CITY OF ROSEVILLE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. In accordance with Chapter 19.84 of Title 19 of the Roseville Municipal Code (the Zoning Ordinance) of the City of Roseville, the City Council has received the recommendation of the Planning Commission that the City of Roseville enter into a Development Agreement by and between the City of Roseville and West Roseville LLC, pertaining to the property located on Parcel F-55a within the West Roseville Specific Plan area.

SECTION 2. Prior to considering the proposed Development Agreement, the City Council considered the Addendum to the West Roseville Specific Plan Environmental Impact Report (EIR) and Fiddymont Ranch Amendment 3 Subsequent EIR pursuant to the California Environmental Quality Act, California Public Resources Code Section 21000 *et seq.*

SECTION 3. The Council of the City of Roseville has reviewed the findings of the Planning Commission recommending approval of the Development Agreement, and makes the following findings:

1. The Development Agreement is consistent with the objectives, policies, programs and land use designations of the City of Roseville General Plan and the West Roseville Specific Plan;
2. The Development Agreement is consistent with the City of Roseville Zoning Ordinance;
3. The Development Agreement is in conformance with the public health, safety and welfare;
4. The Development Agreement will not adversely affect the orderly development of the property or the preservation of property values; and
5. The provisions of the Development Agreement will provide sufficient benefit to the City to justify entering into said Amendment;

SECTION 4. The Development Agreement, by and between the City of Roseville and West Roseville LLC, a copy of which is on file in the City Clerk's Department and incorporated herein by reference, is hereby approved and the City Manager is authorized to execute it on behalf of the City of Roseville.

SECTION 5. The City Clerk is directed to record the executed Development Agreement within ten (10) days of the execution of the agreement by the City Manager with the County Recorder's Office of the County of Placer.

SECTION 6. This ordinance shall be effective at the expiration of thirty (30) days from the date of its adoption.

SECTION 7. The City Clerk is hereby directed to cause this ordinance to be published in full at least once within fourteen (14) days after it is adopted in a newspaper of general circulation in the City, or shall within fourteen (14) days after its adoption cause this ordinance to be posted in full in at least three (3) public places in the City and enter in the Ordinance Book a certificate stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this _____ day of _____, 20____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk

ORDINANCE NO. 6222

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE
AMENDING ZONING ORDINANCE NO. 6198 OF THE CITY OF ROSEVILLE
CHANGING THE ZONING OF CERTAIN REAL PROPERTY LOCATED
WITHIN THE CITY OF ROSEVILLE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Section 19.06.020 of the Zoning Ordinance of the City of Roseville, Ordinance No. 6198, is amended to change the zoning of that portion of certain real property within the City of Roseville known as West Roseville Specific Plan (WRSP) Parcel F-55, as shown and so designated in Exhibit "C", which is attached hereto and incorporated herein by reference, from 29.80 acres of Parks and Recreation (PR) to 24.28 acres of Small Lot Residential/Development Standards (RS/DS), 0.49 acres of Attached Housing (R3), 0.86 acres of Open Space (OS), and 4.03 acres will retain its existing PR designation.

SECTION 2. Section 19.06.020 of the Zoning Ordinance of the City of Roseville, Ordinance No. 6198, is amended to change the zoning of that portion of certain real property within the City of Roseville known as West Roseville Specific Plan (WRSP) Parcel W-60a, as shown and so designated in Exhibit "C", which is attached hereto and incorporated herein by reference, from 25.20 acres of Light Industrial/Special Area (M1/SA) to 25.20 acres of Parks and Recreation (PR).

SECTION 3. This ordinance shall be effective at the expiration of thirty (30) days from the date of adoption.

SECTION 4. The City Clerk is hereby directed to cause this ordinance to be published in full at least once within fourteen (14) days after it is adopted in a newspaper of general circulation in the City, or shall within fourteen (14) days after its adoption cause this ordinance to be posted in full in at least three (3) public places in the City and enter in the Ordinance Book a certificate stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this ____ day of _____, 20____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

MAYOR

ATTEST:

City Clerk



COUNCIL COMMUNICATION

CC #: 0732

File #: 0200

Title: Fiscal Year 2019-20 Second Quarter Report

Contact: Scott Pettingell 916-746-1306 spettingell@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.34.

RECOMMENDATION TO COUNCIL

This is an informational item and requires no Council action.

BACKGROUND

This report provides a high-level summary of the City's financial position through the second quarter of FY2019-20 for (1) the General Fund, (2) the enterprise operating funds, and (3) revenues in other selected funds. The attached report is provided pursuant to the Budget Control section of the City Charter (Section 7.15).

This report includes activity through December 31, 2019; therefore, it doesn't reflect the impacts of COVID-19 on the budget. The attached report is an abbreviated version of the quarterly report, given the fiscal uncertainty caused by COVID-19 on the remaining two quarters of FY2020-21.

Staff is preparing regular fiscal update reports for the remainder of FY2020-21 to keep the City Council apprised of the impact of COVID-19 on the City's financial condition.

FISCAL IMPACT

This item is a financial update only and has no fiscal impact.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. Financial updates meet the above criteria and are not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Scott Pettingell, Budget Manager

Dennis Kauffman, Assistant City Manager/Chief Financial Officer

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, likely representing the name Dominick Casey.

Dominick Casey, City Manager

ATTACHMENTS:

Description

FY2019-20 Second Quarter Report



Second Quarter Report

Fiscal Year 2019-20

Second Quarter Report

Fiscal Year 2019-20

This financial report provides an overview of the City's financial position through the second quarter of the fiscal year (FY) 2019-20 (July 1, 2019, through December 31, 2019) for (1) the General Fund, (2) the major enterprise operating funds, and (3) revenues in other selected funds. City departments and the Budget Office analyzed budget to actual performance for potential issues requiring action and identified no significant concerns.

The following factors should be taken into considerations when analyzing second-quarter data:

- Property tax revenue is received in mid-January and mid-May.
- Some significant costs are incurred upfront (for example, CalPERS payments and some contracts) with variances smoothing out over the fiscal year.

This financial report does not reflect any impacts from the COVID-19 pandemic because the expected impacts did not begin until the third quarter of the fiscal year. Due to the fiscal uncertainty caused by COVID-19, staff is closely monitoring the financial impact of COVID-19 on the City budget and will return to City Council in the coming months with additional information.

General Fund: Operating Revenues

The following table includes cumulative revenue through the second quarter and a revenue budget to actual comparison for FY2019-20.

	Budget to actual comparison (July 1 – December 31)			
	FY2019-20 Amended Budget	FY2019-20 Actual	Balance	% of budget
Sales Tax	\$ 56,348,950	\$ 18,935,969	\$ 37,412,981	34%
Measure B Sales Tax	16,000,000	6,970,108	9,029,892	44%
Property Tax	49,227,860	893,993	48,333,867	2%
Parks, Recreation & Libraries	3,934,560	2,018,104	1,916,456	51%
Building Permits	2,200,000	1,299,818	900,182	59%
Plan Check Fees	2,281,322	1,224,877	1,056,445	54%
Engineering Inspection Fees	340,400	199,644	140,756	59%
Grants	93,253	-	93,253	0%
Other Revenues	16,079,313	6,193,168	9,886,145	39%
Total	\$ 146,505,658	\$ 37,735,681	\$ 108,769,977	26%

General Fund operating revenues are at 26 percent of the budget through the second quarter of the current year, primarily due to the timing associated with receiving some of the larger revenues sources. For instance, property tax is the second largest General Fund revenue source, but the majority of this funding is received in the third and fourth quarters of the fiscal year. The following is an explanation of the notable variances:

- Sales tax revenues are at 34 percent and Measure B sales tax revenues are at 44 percent of budget. These percentage rates of collection are in line with prior year disbursements from the State of California. As of December 2019, Sales Tax and Measure B revenues were both forecasted to exceed targets at \$57.3 million and \$19.8 million, respectively.
- Building permit revenues, plan check fees, and engineering inspection fees were all on track to come in on or above budget.
- Other revenues include the hotel/motel room tax, reimbursements from the State, development reimbursement activity, business license tax, and rental revenues. As of the end of the second quarter, the City had received approximately \$6.2 million or 39 percent of estimated revenue, which is consistent with the expected timing of collection.

General Fund: Operating Expenditures

The following table includes cumulative second quarter expenditure comparisons for General Fund departments for FY2019-20.

	Budget to actual comparison (July 1 – December 31)				
	FY2019-20 Amended Budget	FY2019-20 Actual	Balance	% of budget	
General Government	\$ 11,829,917	\$ 6,231,095	\$ 5,598,822	53%	
Economic Development & Housing	876,841	608,116	268,725	69%	
Development Services	9,642,075	4,647,395	4,994,680	48%	
Public Works	7,653,032	4,276,533	3,376,499	56%	
Police	44,470,408	23,916,649	20,553,759	54%	
Fire	36,032,753	18,769,348	17,263,405	52%	
Parks, Recreation & Libraries	24,942,685	13,082,743	11,859,942	52%	
Total	\$ 135,447,711	\$ 71,531,879	\$ 63,915,832	53%	

Through the first six months, as compared to budget, General Fund expenditures are tracking as expected at 53 percent of the budget. The slightly higher rate of spending (53 percent versus 50 percent of the year elapsed) is primarily due to upfront contributions to CalPERS. Economic Development & Housing expenditures are tracking higher than average at 69 percent primarily due to the upfront payment to CalPERS and annual membership contributions to economic development organizations.

Enterprise Funds: Operating Revenues and Expenditures

Revenues

At the end of the second fiscal quarter, revenue collection for most of the Enterprise Funds was close to 50 percent of projected revenues. Larger budget to actual variances in the Transit

	Budget to actual comparison (July 1 – December 31)			
	FY2019-20 Amended Budget	FY2019-20 Actual	Balance	% of budget
Electric Operations	\$ 167,396,678	\$ 81,235,647	\$ 86,161,031	49%
Water Operations	32,586,519	18,066,216	14,520,303	55%
Wastewater Operations	40,382,779	16,394,172	23,988,607	41%
Waste Services Operations	26,192,571	12,557,829	13,634,742	48%
Transit	7,579,004	456,521	7,122,483	6%
Transportation	1,761,023	166,938	1,594,085	9%
Youth Development	7,138,254	3,738,552	3,399,702	52%

and Transportation enterprise funds are due to the timing associated with their primary funding streams as the majority of their revenue is realized in the last two quarters of the fiscal year.

	Budget to actual comparison (July 1 – December 31)			
	FY2019-20 Amended Budget	FY2019-20 Actual	Balance	% of budget
Electric Operations	\$ 127,815,726	\$ 51,936,117	\$ 75,879,609	41%
Water Operations	32,199,155	12,247,293	19,951,862	38%
Wastewater Operations	43,576,055	19,090,945	24,485,110	44%
Waste Services Operations	28,149,912	12,105,508	16,044,404	43%
Transit	5,941,546	2,696,933	3,244,613	45%
Transportation	1,595,741	524,644	1,071,097	33%
Youth Development	6,854,478	3,799,497	3,054,981	55%

Expenditures

Except for the Youth Development Fund, operating expenditures for the Enterprise funds are tracking to end the year on or under budget. The 5 percent variance in the Youth Development

fund is due to the upfront payment to CALPERS and the cost of temporary labor being charged heavily during the summer months.

Other Revenue

The following table shows revenues in the Fire Facilities, Public Facilities, and Strategic Improvement Funds through the second quarter of FY2018-19 and FY2019-20. All three of these funds are following relatively close to budget. The FY2019-20 budget for the Strategic Improvement Fund (SIF) includes \$584,800 in surplus property sale revenue. Without taking into consideration the unrealized revenue from the property sale, the SIF budget is tracking at 52 percent.

	Budget to actual comparison (July 1 – December 31)				
	FY2018-19 Actual	FY2019-20 Amended Budget	FY2019-20 Actual	Balance	% of budget
Fire Facilities	\$ 696,513	\$ 1,333,744	\$ 735,727	\$ 598,017	55%
Public Facilities	1,288,652	3,723,570	1,650,911	2,072,659	44%
Strategic Improvement	481,105	1,853,220	664,980	1,188,240	36%



COUNCIL COMMUNICATION

CC #: 0712
File #: 0102-03

Title: Minutes of Prior Meetings
Contact: Sonia Orozco 916-774-5269 sorozco@roseville.ca.us

Meeting Date: 5/6/2020
Item #: 6.35.

RECOMMENDATION TO COUNCIL

Recommend the City Council approve the minutes of the January 8, 2020 City Council meeting, January 15, 2020 City Council meeting, February 5, 2020 City Council meeting, February 19, 2020 City Council and Roseville Natural Gas Financing Authority meeting, March 4, 2020 City Council meeting, March 4, 2020 Special Closed Session meeting, March 17, 2020 Emergency City Council meeting, March 18, 2020 City Council meeting, Special Closed Session meeting (Cancelled), and the April 1, 2020 City Council meeting.

BACKGROUND

There is no background associated with this item. The request is to approve the minutes of previous meetings.

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonable foreseeable indirect physical change in the environment (CEQA Guidelines § 15061(b)(3)). The approval of minutes does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

Respectfully Submitted,

Sonia Orozco, City Clerk



Dominick Casey, City Manager

ATTACHMENTS:

Description

January 8, 2020 City Council Minutes
January 15, 2020 City Council Minutes
February 5, 2020 City Council Minutes
February 19, 2020 City Council/Natural Gas Financing Minutes
March 4, 2020 City Council Minutes
March 4, 2020 Special Closed Session Minutes
March 17, 2020 Special Emergency City Council Minutes
March 18, 2020 City Council Minutes
March 18, 2020 Special Closed Session Minutes - Cancelled
April 1, 2020 City Council Minutes



MINUTES

January 8, 2020

CITY COUNCIL MEETING

6:00 p.m.

Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us

1. CALL TO ORDER

Mayor John B Allard II called the meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Bernasconi, Alvord, Roccucci, Houdesheldt, Allard

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Councilmember Bruce Houdesheldt.

4. MEETING PROCEDURES

City Clerk Sonia Orozco announced procedures for addressing Council.

5. PUBLIC COMMENTS

Nick Bryant - Thanked the City Council for approving the Game Day Express Bus Service and thanked the Roseville Police Department for their service.

6. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Motion by Pauline Roccucci, seconded by Krista Bernasconi, to approve the Consent Calendar as recommended. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Bids / Purchases / Services

6.1. Card Key Access Control System - Sole Source Contract Purchase Agreement

Memo from Office Assistant Tisha Chinn and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-003 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND JOHNSON CONTROLS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000139). Johnson Controls, Inc. currently provides maintenance, repair, installation of hardware, and software programming for the City's card key access control system, P2000. Because the current card key system has reached its end of life and will no longer be supported, an upgrade to the C-Cure 9000 platform is required. Additionally, the City is adding a 5-year service and software upgrade plan with this agreement. The total cost of this proposal is \$81,514.95 and funding is available in the FY2019-20 Safety and Security budget.

CC #: 0524

File #: 0203-14

CONTACT: Tisha Chinn 916-774-5702 tchinn@roseville.ca.us

6.2. Enterprise Asset Management Consulting Services - Service Agreement Amendment

Memo from Assistant Environmental Utilities Director Dale Olson and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-002 APPROVING AMENDMENT NO. 2 TO SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND SIXTY SEVEN SOLUTIONS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1909051). This item requests approval of a second amendment to a service agreement with Sixty Seven Solutions, Inc. to consult on the integration of the Enterprise Asset Management system. Funding for this \$150,000 amendment is available in the approved FY2019-20 Roseville Electric Utility budget.

CC #: 0521

File #: 0203-09

CONTACT: Dale Olson 916-774-5543 dolson@roseville.ca.us

Resolutions

6.3. 2019 Bike Trail Resurfacing Project - Notice of Completion

Memo from Assistant Engineer Cathy Gosalvez and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-001 ACCEPTING THE PUBLIC WORK KNOWN AS 2019 BIKE TRAIL RESURFACING PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PUBLIC WORKS DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. The project consisted of the application of a Type 1 slurry seal treatment over approximately 406,000 square feet (over 7 miles) of bike trails in various locations throughout the City. The final construction cost for the project was \$244,157.83 and was funded with local transportation funds. No General Fund resources were used for this project.

CC #: 0520

File #: 0721-05

CONTACT: Cathy Gosalvez 916-746-1300 cgosalvez@roseville.ca.us

6.4. Blue Oaks Boulevard Extension - Easement Deed to Pacific Gas and Electric

Memo from Assistant Engineer Kerry Andrews and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-005 APPROVING AN EASEMENT DEED, BETWEEN THE CITY OF ROSEVILLE AND PACIFIC GAS AND ELECTRIC COMPANY, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. PG&E maintains an existing overhead power line that serves the subject property within west Roseville. This power line is located on City property and needs to be relocated underground to accommodate the construction of the extension of Blue Oaks Blvd. to the Creekview planned development. This easement will allow PG&E to operate and maintain the power lines underground. This action will have no fiscal impact to the City's General Fund.

CC #: 0527

File #: 1002-06

CONTACT: Kerry Andrews 916-774-5346 kandrews@roseville.ca.us

6.5. Joint Community Facilities Agreement - Bond Opportunities for Land Development Program

Memo from Administrative Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-004 APPROVING ENTRANCE INTO JOINT COMMUNITY FACILITIES AGREEMENTS IN CONNECTION WITH THE BOND OPPORTUNITIES FOR LAND DEVELOPMENT (BOLD) PROGRAM; AND AUTHORIZING RELATED ACTIONS. On January 16, 2019 City Council approved Resolution 19-12 which authorized the use of the Bond Opportunities for Land Development (BOLD) program in the City and authorized the California Municipal Finance Authority (CMFA) to accept applications from property owners, conduct proceedings and levy special taxes within the territory of the City pursuant to the Mello-Roos Community Facilities Act of 1982. Per Section 3 of the

adopted Resolution, it was required that, prior to issuance of bonds by the CMFA for the BOLD program, a Form of Joint Community Facilities Agreement will be required to be entered into and the form of such agreement will be presented to the City Council for approval. The approval of this resolution delegates authority to enter into such agreements on behalf of the City to the City Manager and the Chief Financial Officer or the designee of any of them, without the need for the form thereof to be approved by the City Council. The approval of this resolution does not have any impact on the General Fund.

CC #: 0526

File #: 0200

CONTACT: Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us

Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Reports / Requests

6.6. Out-of-State Travel Request - Electric Department

Memo from Electric Utility Director Michelle Bertolino recommending the City Council approve out of state travel for one department member to attend a customer leadership meeting in February 2020 with the Western Area Power Administration in Denver, Colorado. Costs related to travel, airfare, lodging and per diem are estimated to be \$1,500. Funds are available in the Electric Department's FY2019-20 budget.

CC #: 0522

File #: 0600-02

CONTACT: Michelle Bertolino 916-774-5603 mbertolino@roseville.ca.us

6.7. Out-of-State Travel Request - Finance and Human Resources Departments

Memo from Business Analyst Kelly Wallace and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council approve out of state travel for nine Finance and two Human Resources staff members to attend the Oracle Modern Business Experience conference in Chicago, Illinois in March 2020. Total conference registration costs are approximately \$5,000. The associated transportation, lodging, and per diem costs are estimated to be \$20,000 and funding is available in the approved General Fund budget. No additional funds are needed.

CC #: 0523

File #: 0600-02

CONTACT: Kelly Wallace 916-774-5189 klwallace@roseville.ca.us

Ceremonial Documents

6.8. Resolution - Julie Pistone

Commend Julie Pistone for her 14.5 years of outstanding service and dedication to the City of Roseville and extend wishes for a long, healthy, and enjoyable retirement.

CC #: 0528

File #: 0102-10

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

END OF CONSENT CALENDAR

7. SPECIAL REQUESTS/REPORTS/PRESENTATION

7.1. Budget Update and Strategic Plan Adoption

Memo from Assistant City Manager/Chief Financial Officer Dennis Kauffman and Deputy City Manager Megan MacPherson recommending the City Council receive a budget update, a presentation regarding the City of Roseville Strategic Plan, and approve the Strategic Plan.

CC #: 0506

File #: 0108 & 0201

CONTACT: Scott Pettingell 916-746-1306 spettingell@roseville.ca.us

Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Assistant City Manager/Chief Financial Officer Dennis Kauffman and Deputy City Manager Megan MacPherson make the presentation to Council.

The City of Roseville Strategic Plan for Fiscal Years 2021-2024 was presented.

With comprehensive community input through ongoing efforts as well as initiatives such as EngageRoseville, the City Council and staff developed this strategic plan to set the direction of the City's work for the next four fiscal years. The City Council's Strategic Planning Workshop in October 2019 kicked off the budget planning process for Fiscal Year 2020-21, which starts July 1, 2020.

Interviews with City Council members and a two-day public workshop with the City Council and department heads informed the strategic plan's development. Roseville's strengths and limitations were considered along with future challenges and opportunities. The resulting plan describes the City's mission and vision, as well as the values that guide the City's work. It includes overarching goals for the next four fiscal years and specific strategies to support each goal. All of these were developed at the public workshop. The success of any plan depends on its implementation. At the end of this document, the section titled "Strategic Plan implementation" describes the process to provide updates at City Council meetings and workshops, which are all open to the public. This includes each fall when the City Council will revisit the Strategic Plan to determine whether updates are required, as staff begins budget planning for the following fiscal year.

Key Strengths, Weaknesses, Opportunities and Challenges

Key Strengths:

- High-quality services and staffing

- Strong finances and financial practices
- Effective long-term land-use and infrastructure planning
- Rising community involvement and support
- City-owned and operated utilities

Key Weaknesses and Limitations:

- Traffic congestion, especially Highway 65
- Limited capacity for organizational growth
- Community amenities occur after related development

Key Opportunities:

- Economic development potential
- Increasing Roseville's regional role and leadership
- Increased transparency, openness and engagement
- New business expansions
- Infill Specific Plan areas
- Stimulate the next generation of community leadership

Key Threats and Challenges:

- Rising costs and inflation
- State regulations and mandates
- Maintaining Roseville's quality of life and livability as Roseville grows
- Impacts of regional development
- Potential economic recession

Mission, Vision and Value statements were overviewed.

City Mission: To provide exceptional services in a fiscally responsible manner that enhance the quality of life today and into the future.

City Vision:

- A safe and healthy community
- A fiscally sound city
- A well-planned city
- Well-managed infrastructure
- Outstanding recreational activities
- A transparent, accountable environment

City Values:

- Instill trust
- Cultivate innovation and creativity
- Treat people well
- Work together
- Promote personal development

Overarching Goals

Goal A - Remain fiscally responsible in a changing world

Key strategies to achieve the goal:

- Seek new and diverse revenue streams
- Address pension liabilities after reserve targets are met

- Identify operational efficiencies
- Align service levels and the size of the organization with Council and community priorities
- Staff will pursue the following as resources permit:
 - Ensure financial policies provide ongoing stability
 - Seek additional partnerships and grant opportunities
 - Balance utility operating costs to maintain competitive rates
 - Determine future land acquisition needs for the utilities

Goal B - Support community engagement and advocacy

Key strategies to achieve the goal:

- Provide context about policy decisions to enhance
- Explore best practices for City engagement in social media
- Help county, state and federal makers understand key City issues
- Staff will pursue the following as resources permit:
 - Use effective ways to explain the City's financial and operational changes and challenges
 - Engage adjacent residents, businesses, and public agencies on pending projects

Goal C - Maintain a safe and healthy community

Key strategies to achieve the goal:

- Address homelessness
- Maintain community policing
- Optimize police and fire levels of service
- Staff will also pursue the following as resources permit:
 - Advocate for increased mental health and suicide-prevention resources

Goal D- Enhance economic vitality

Key strategies to achieve the goal

- Develop a sports tourism plan
- Facilitate opportunities for higher education
- Provide an environment conducive to job growth in key industry sectors (manufacturing & healthcare).
- Leverage the use or sale of surplus City land
- Develop and implement a plan to improve City gateways, including signage
- Staff will also pursue the following as resources permit:
 - Leverage external partnerships
 - Monitor and engage on regional developments affecting Roseville
 - Support small businesses and entrepreneurship

Goal E - Deliver exceptional city services

Key strategies to achieve the goal:

- Implement customer relationship management (CRM) software to improve customer experience
- Optimize the use of technology and data to improve operations
- Implement district-based elections with a citywide focus
- Complete the City Charter review update
- Staff will also pursue the following as resources permit:
 - Increase employee recruitment and retention, as well as knowledge transfer from departing staff

- Align staff resources for efficiency and effectiveness
- Promote a highly engaged workforce
- Increase cyber resiliency
- Examine opportunities for regional collaborations and shared services

Goal F - Invest in well-planned infrastructure and growth

Key strategies to achieve the goal:

- Reinvest in aging infrastructure
- Plan for targeted and infill developments
- Revitalize designated neighborhoods
- Improve traffic circulation, capacity, operations, and enforcement
- Staff will also pursue the following as resources permit:
 - Expand opportunities for affordable housing
 - Leverage opportunities for City beautification
 - Secure additional funding for corridor improvements

Bike Rack Items:

- Cultural Arts Strategic Plan
- Marketing Campaign
- Civic Leadership Development

An Implementation Action Plan will be developed to outline a schedule, assignments, and funding parameters for initiatives. It will be developed by City staff with assistance from Management Partners as part of the budget process. A report on progress will happen three times a year and Council priorities workshop will be held in odd-numbered years. Development of the next multi-year strategic plan in Fall 2023 to cover FY 2025-2029.

Motion by Krista Bernasconi, seconded by Scott Alvord, to approve the City of Roseville Strategic Plan for Fiscal Years 2021-2024. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

8. APPOINTMENTS

8.1. Boards and Commissions Bi-Annual Vacancies

Memo from Deputy City Clerk Katrina Six and City Clerk Sonia Orozco recommending the City Council appoint Andrew Haydu to the Board of Appeals for a term expiring December 31, 2023; appoint one (1) individual to the Placer Mosquito and Vector Control District for a term expiring December 31, 2023 from the applications received from Ross Hutchings and Cyndi Mitchell; appoint one (1) individual to the Senior Commission for a term expiring December 31, 2023 from the applications received from Erica Crumley, Debra Fitzsimmons, Michael Garibaldi, and Theresa Renken; and appoint two (2) individuals to the Transportation Commission for terms expiring December 31, 2023 from the applications received from Marilyn Festersen, Daniel Groff, and Jason Probst.

CC #: 0525

File #: 0103 & 0103-41-02 & 0103-35 & 0103-12-02 & 0103-13-02

CONTACT: Katrina Six 916-774-5267 kmsix@roseville.ca.us

City Clerk Sonia Orozco makes the presentation to Council.

Councilmembers voted their ballots for each respective appointment.

Motion by Pauline Roccucci, seconded by Bruce Houdesheldt, to appoint Andrew Haydu to the Board of Appeals for a term expiring December 31, 2023. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Motion by Pauline Roccucci, seconded by Scott Alvord, to appoint Ross Hutchings to the Placer Mosquito and Vector Control District for a term expiring December 31, 2023. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Motion by Scott Alvord, seconded by Bruce Houdesheldt, to appoint Michael Garibaldi to the Senior Commission for a term expiring December 31, 2023. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to appoint Marilyn Festersen and Daniel Groff to the Transportation Commission for terms expiring December 31, 2023. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

9. COUNCIL REPORTS / PUBLIC COMMENTS

No additional public comment.

Regional Water Authority - Councilmember Pauline Roccucci reported on upcoming meeting.

Norther California Power Agency - Councilmember Pauline Roccucci reported on upcoming meeting.

Board and Commission Applicants - Councilmember Pauline Roccucci thanked applicants who applied.

Proud of City - Councilmember Bruce Houdesheldt reported on how his in-laws, his parents and friends were impressed with community and how fortunate he feels to live in Roseville.

Happy New Year - Councilmember Scott Alvord expressed good wishes, and

spoke on the passage of Measure B and looking forward to formulating a budget with no significant cuts.

Community Praise - Councilmember Scott Alvord spoke to residents comments regarding living in Roseville and spoke to a great quality of life.

- Happy New Year - Vice Mayor Krista Bernasconi expressed good wishes.

Strategic Plan - Vice Mayor Krista Bernasconi expressed excitement regarding the adoption of Strategic Plan.

Board and Commission Vacancies - Vice Mayor Krista Bernasconi requested City Clerk speak to upcoming vacancies.

Happy New Year - Mayor John Allard expressed good wishes and stated excitement for upcoming year.

Participation in Strategic Planning Process - Mayor John Allard expressed appreciation.

10. ADJOURNMENT

Motion by Pauline Roccucci, seconded by Bruce Houdesheldt, to adjourn the meeting at 7:30 p.m. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci



MINUTES

January 15, 2020

CITY COUNCIL MEETING
6:00 p.m.
Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us

1. CALL TO ORDER

Mayor John B. Allard II called the meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Bernasconi, Alvord, Roccucci, Houdesheldt, Allard

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Vice Mayor Krista Bernasconi.

4. MEETING PROCEDURES

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PRESENTATIONS

5.1. Martin Luther King, Jr. Day

Proclaim January 20, 2020 as Martin Luther King, Jr. day, the only federal holiday designated as a national day of service to encourage all Americans to volunteer to improve their communities.

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

Mayor John B. Allard II made the presentation to Muriel Moore, who responded

6. PUBLIC COMMENTS

No public comment received.

7. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Motion by Pauline Roccucci, seconded by Krista Bernasconi, to approve Consent Calendar as presented. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Bids / Purchases / Services

7.1. John L. Sullivan Park Project - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Park Development Analyst Heather Buck and Parks, Recreation & Libraries Director Jill Geller recommending the City Council approve the plans and specifications for the John L. Sullivan Park (WB-51) project and authorize staff to call for bids. This 4.5-acre park site is located at the intersection of Solaire Drive and Summerfaire Drive in the Sierra Vista Specific Plan. The project includes a picnic area, a concrete foosball table, two concrete cornhole courts, a practice disc golf goal, a half-court for basketball, a children's playground, multi-use turf, landscaping and irrigation. In order to meet budget constraints, additive alternates have been identified and include a swing play area, three fitness stations, and a shade structure for the picnic area. The estimate for construction of the base bids is \$1,167,630. Funding for the park construction is provided through the Westbrook Neighborhood Park Fund and was allocated in the FY2019-20 budget. Maintenance of the park will be funded from the Westbrook Community Facilities District No. 2 (Public Services).

CC #: 0535

File #: 0704-01

CONTACT: Heather Buck 916-774-5254 hcbuck@roseville.ca.us

7.2. Riego Creek Adventure Club Modular Building - Contract Purchase Agreement

Memo from Park Development Analyst Heather Buck and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 20-012 APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CLASS LEASING, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000122). Staff requests Council approve a service agreement with Class Leasing LLC in the amount of \$241,417 for the

purchase and placement of a modular building at Riego Creek Elementary School to operate Adventure Club programs. Staff also requests authorization to approve change order requests in an amount not to exceed 10% of the contract price in accordance with the terms and conditions of the contract. Funds for purchase of the building are in the Adventure Club Modular Facility Capital Improvement Project, with ongoing maintenance costs to be funded from the Youth Development Fund. There is no General Fund impact.

CC #: 0546

File #: 0704

CONTACT: Heather Buck 916-774-5254 hcbuck@roseville.ca.us

7.3. 12kV Padmount Vacuum Fault Interrupter Switches (RFQ 10-3239) - Purchase Orders

Memo from Buyer Babette Owens and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-006 APPROVING A PURCHASE ORDER FOR 12kV PADMOUNT VACUUM FAULT INTERRUPTER SWITCHES. Staff requests authorization for a purchase order to Anixter, Inc. as the only bid received for 12kV Padmount Vacuum Fault Interrupter Switches to be purchased on an as-needed basis. This equipment will be used for new development and to replace end-of-life equipment throughout the Roseville Electric system. The estimated annual cost is \$250,000 and funding is included in the Electric Department's Contribution in Aid of Construction Capital Improvement Project (CIP) and 12kV Upgrade & Extension CIP FY2019-20 budget. Staff requests authorization to renew without further Council approval, contingent upon budget approval each year.

CC #: 0531

File #: 0203-07-01

CONTACT: Babette Owens 916-774-5704 bowens@roseville.ca.us

Resolutions

7.4. Conflict of Interest Disclosure Amendment

Memo from Assistant City Clerk Audrey Byrnes and City Clerk Sonia Orozco recommending the City Council adopt RESOLUTION NO. 20-010 READOPTING THE FAIR POLITICAL PRACTICES COMMISSION MODEL CONFLICT OF INTEREST CODE AND REPEALING RESOLUTION NO. 19-01. The Fair Political Practices Commission requires local government agencies to adopt and implement a conflict of interest code which establishes categories of public officials and employees who must disclose their personal financial interests. Filing of Statements of Economic Interest Form 700 enables the organization to identify areas of potential conflicts so that government officials and employees can refrain from making or participating in government decisions that have a reasonably foreseeable material financial effect on his or her personal interests. The California Government Code requires local agencies to annually review its Conflict of Interest Code to accurately reflect required filers of Form 700 as designated by the City Attorney. Council adopted the last update in January 2019. There is no fiscal impact.

CC #: 0541

File #: 0503-02

CONTACT: Audrey Byrnes 916-774-5268 abyernes@roseville.ca.us

7.5. Mahany Park Trail and Open Space Enhancement Feasibility Study

Memo from Alternative Transportation Analyst Jeannie Gandler and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-008 APPROVING A PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND HELIX ENVIRONMENTAL PLANNING, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The 2008 Bicycle Master Plan includes planned Class I multi-use paths through the open space area between Woodcreek Oaks Boulevard and Fiddymont Road. The professional services agreement with Helix Environmental Planning, Inc., is for the preparation of the Mahany Park Trail and Open Space Enhancement Feasibility Study for a not-to-exceed amount of \$215,211. Local Transportation Funds in the amount of \$215,211 will pay for the study. No General Fund resources will be used.

CC #: 0536

File #: 0721-05

CONTACT: Jeannie Gandler 916-746-1289 jgandler@roseville.ca.us

7.6. Amended and Restated Campus Oaks Apartments Phase 1 - Affordable Rental Housing Agreement

Memo from Housing Analyst Trisha Isom and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 20-013 APPROVING AN AMENDED AND RESTATED AFFORDABLE RENTAL HOUSING AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CAMPUS OAKS APARTMENTS 1, LP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of the Amended and Restated Campus Oaks Apartments Phase 1 Affordable Rental Housing Agreement between the City and Campus Oaks Apartments 1, LP. The recommended amendment includes minor changes that mirror updates made to the Affordable Rental Housing Agreement for Campus Oaks Phase 2 which is being recommended for approval concurrently. Changes include correcting minor typos and removal of language that does not apply to this project. Language was also altered to allow refinancing of the Campus Oaks Apartments in order to finance future affordable housing developments in the City. The amended agreement will continue to support the Campus Oaks Master Plan and the City's General Plan in meeting the affordable housing goals. No General Fund resources will be used for implementation of the amendment to the agreement.

CC #: 0539

File #: 0709-03-02

CONTACT: Trisha Isom 916-746-1239 tisom@roseville.ca.us

7.7. Campus Oaks Apartments Phase 2 - Affordable Rental Housing Agreement

Memo from Housing Analyst Trisha Isom and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 20-009 APPROVING AN AFFORDABLE RENTAL HOUSING AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CAMPUS OAKS APARTMENTS 2, LP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. In June 2017 the City approved the Campus Oaks Apartments Phase 2. The developer, Campus Oaks Apartments 2, LP, must enter into an affordable housing agreement with the City to implement the affordable housing obligations. The developer will build 210 apartments of which 45 will be affordable to rent by very-low income households. The subsidies for the program are borne by the developer.

CC #: 0540

File #: 0709-03-02

CONTACT: Trisha Isom 916-746-1239 tisom@roseville.ca.us

7.8. Community Development Block Grant Program Administration Services – Professional Services Agreement

Memo from Housing Analyst Kristine Faelz and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 20-014 APPROVING A PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND THURMOND CONSULTING, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends that the City Council approve a professional services agreement with Thurmond Consulting LLC for the purpose of Community Development Block Grant (CDBG) program administration services funded by the CDBG. The cost is \$52,500 and will be funded by CDBG funds. No General Fund resources will be used.

CC #: 0548

File #: 0113-02

CONTACT: Kristine Faelz 916-774-5451 kpfaelz@roseville.ca.us

7.9. Legal Services Agreement - Sloan Sakai Yeung & Wong LLP

Memo from Paralegal Gretchen Hakala and City Attorney Robert Schmitt recommending the City Council adopt RESOLUTION NO. 20-011 APPROVING AN AGREEMENT FOR LEGAL SERVICES, BY AND BETWEEN THE CITY OF ROSEVILLE AND SLOAN SAKAI YEUNG & WONG LLP AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The City requires outside legal services from time to time to advise, assist, and represent the City as co-counsel with the City Attorney with respect to litigation, and to assist the City with respect to transaction matters. In 2009, the City entered into a Legal Services Agreement with Renne Sloan Holtzman Sakai LLP. A new Agreement for Legal Services will incorporate the firm's new name as well as their current billing rates, in addition to incorporating the City's current terms and conditions and insurance requirements. All expenses will be paid from the Human Resources Department's operating budget, as

needed.

CC #: 0544

File #: 0500-01

CONTACT: Gretchen Hakala 916-774-5325 ghakala@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

7.10. Police Department's Police Evidence Fund - Budget Adjustment

Memo from Administrative Analyst Shelly Bracco and Police Chief James Maccoun recommending the City Council adopt ORDINANCE NO. 6179 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This is a request to amend the FY2019-20 budget to appropriate for payouts in the Police Department's Police Evidence Fund in the amount of \$23,000.

CC #: 0545

File #: 0323 & 0201-01

CONTACT: Shelly Bracco 916-774-5018 sbracco@roseville.ca.us

7.11. Supplemental Law Enforcement Services - Budget Adjustment

Memo from Administrative Analyst Shelly Bracco and Police Chief James Maccoun recommending the City Council adopt ORDINANCE NO. 6180 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff is requesting a budget adjustment to the FY2019-20 General Fund budget in the amount of \$10,112. The Westfield Galleria at Roseville has contracted with the Police Department for supplemental services. In FY2019-20, the Galleria will prepay for two police officers at an estimation of 79 hours each and an hourly rate of \$64 per hour, per the Supplemental Law Enforcement Services Agreement.

CC #: 0547

File #: 0323-01 & 0201-01

CONTACT: Shelly Bracco 916-774-5018 sbracco@roseville.ca.us

7.12. Staffing Changes

Memo from Human Resources Manager Linda Hampton and Human Resources Director Stacey Peterson recommending the City Council adopt ORDINANCE NO. 6181 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6173, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED BY ROSEVILLE FIREFIGHTERS, LOCAL 1592, AS AMENDED BY APPENDIX "D", TO BE EFFECTIVE JANUARY 18, 2020 AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 6182 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO.

6172, THE SALARY ORDINANCE FOR EMPLOYEES REPRESENTED BY THE INTERNATIONAL UNION OF OPERATING ENGINEERS, STATIONARY ENGINEERS, LOCAL 39, AS AMENDED BY APPENDIX "E" TO BE EFFECTIVE JANUARY 18, 2020, AS AN URGENCY MEASURE. Staff recommends that the City Council approve the citywide position allocation schedule reflecting the reclassification of two (2) vacant allocations. Staff is also requesting the deletion of Fire Inspector and a title change correction from Fire and Environmental Safety Supervisor to Fire and Environmental Inspection Supervisor on the Roseville Firefighters salary schedule and the deletion of Information Technology Planning and Policy Technician from the Local 39 salary schedule. The total impact for FY2019-20 is a savings of \$36,518 to the General Fund.

CC #: 0551

File #: 0600-01

CONTACT: Linda Hampton 916-774-5215 lhampton@roseville.ca.us

Reports / Requests

7.13.Financial Reports for Fiscal Year Ended June 30, 2019

Memo from Controller Jacquelyn Flickinger and Assistant City Manager/Chief Financial Officer Dennis Kauffman with eight informational financial reports for the year ended June 30, 2019. There is no impact to the City's General Fund.

CC #: 0550

File #: 0202-01

CONTACT: Jacquelyn Flickinger 916-774-5516 jflickinger@roseville.ca.us

7.14.Planning Commission Meeting Time Change

Memo from City Clerk Technician Helen Dreyer and City Clerk Sonia Orozco recommending the City Council approve the Planning Commission requested meeting start time of 6:30 p.m. There is no fiscal impact associated with the request.

CC #: 0537

File #: 0103-07-02

CONTACT: Helen Dreyer 916-774-5269 hdreyer@roseville.ca.us

Ceremonial Documents

7.15.Resolution - The Sunrise Lions Club

Commend the Sunrise Lions Club of Roseville on their 50 year anniversary and extend wishes for continued growth and prosperity.

CC #: 0538

File #: 0102-10

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

END OF CONSENT CALENDAR

8. RESOLUTIONS

8.1. Electric Vehicle Dealership Engagement Program - Contract Purchase Agreement

Memo from Sr. Energy Services Account Representative Mark Riffey and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-015 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND PLUG IN AMERICA, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000135). Staff recommends Council approve a contract purchase agreement with Plug In America to administer the Electric Vehicle Dealership Engagement program to provide education and promotion of electric vehicles through local auto dealers for the benefit of Roseville residents. The total contract value of the agreement with Plug In America is not to exceed \$200,000. Funding for this agreement is available from proceeds received from the California Air Resources Board's Low Carbon Fuel Standard program and is included in Roseville Electric's FY2019-20 budget, as approved by City Council.

CC #: 0549

File #: 0800-03

CONTACT: Mark A. Riffey 916-746-1667 mriffey@roseville.ca.us

Vice Mayor Krista Bernasconi declared a potential conflict of interest due to source of income and left the dais.

Assistant Electric Utility Director Shawn Matchim made the presentation to Council.

Customer Programs Supervisor David Bradford continued the presentation to Council.

No public comment received.

Vice Mayor Krista Bernasconi returned to the dais.

Motion by Bruce Houdesheldt, seconded by Scott Alvord, to adopt RESOLUTION NO. 20-015 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND PLUG IN AMERICA, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000135). The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Houdesheldt, Roccucci

Absent: Bernasconi

8.2. Project Water Service and Facilities Repayment

Memo from Assistant Environmental Utilities Director Sean Bigley and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-007 APPROVING A CONTRACT BETWEEN THE UNITED STATES AND THE CITY OF ROSEVILLE PROVIDING FOR PROJECT WATER SERVICE AND FACILITIES REPAYMENT AND AUTHORIZING THE CITY MANAGER OR ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item will allow the City to switch its federal water service contract for 32,000 acre-feet of water per year (the City's primary water supply) which is currently on a two-year term basis to a contract that is in perpetuity. Funding for water purchases is currently budgeted in FY2019-20 in the Water Operations Fund which receives revenue through water utility service provided to Roseville customers. There are no additional costs related to execution of the proposed Repayment Contract.

CC #: 0552

File #: 0800-02

CONTACT: Sean Bigley 916-774-5513 sbigley@roseville.ca.us

Environmental Utilities Director Richard Plecker make the presentation to Council.

Assistant Environmental Utilities Director Sean Bigley continued the presentation to Council.

No public comment received.

Motion by Pauline Roccucci, seconded by Scott Alvord, to adopt RESOLUTION NO. 20-007 APPROVING A CONTRACT BETWEEN THE UNITED STATES AND THE CITY OF ROSEVILLE PROVIDING FOR PROJECT WATER SERVICE AND FACILITIES REPAYMENT AND AUTHORIZING THE CITY MANAGER OR ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

9. **ORDINANCES**

9.1. Campaign Finance Ordinance Amendments

Memo from Assistant City Clerk Audrey Byrnes, Assistant City Attorney Michelle Sheidenberger and City Clerk Sonia Orozco recommending the City Council simultaneously introduce for first reading a regular ORDINANCE and urgency ORDINANCE NO. 6183 AMENDING SECTIONS 2.60.020, 2.60.045, 2.60.065 AND 2.60.100 OF CHAPTER 2.60 OF TITLE 2 OF THE ROSEVILLE MUNICIPAL CODE REGARDING CAMPAIGN FINANCE DISCLOSURE, REPEALING CHAPTER 2.90 OF TITLE 2 OF THE ROSEVILLE MUNICIPAL CODE REGARDING CAMPAIGN EXPENDITURES, AND DECLARING THE ORDINANCE TO BE

EFFECTIVE JANUARY 15, 2020 AS AN URGENCY ORDINANCE. Amendments to Chapter 2.60 and repeal of Chapter 2.90 were reviewed due to Roseville's change from at-large elections to by-district elections enacted by ORDINANCE NO.1661, adopted at the December 4, 2019 City Council meeting. The proposed changes require a reassessment of campaign contribution amounts. The proposed amendments will support the intent of the City of Roseville Campaign Finance Disclosure section of the Roseville Municipal Code and adhere to laws and regulations related to campaign expenditure limits. There is no fiscal impact associated with the proposed amendments.

CC #: 0543

File #: 0502

CONTACT: Audrey Byrnes 916-774-5268 abyrnes@roseville.ca.us
M.Sheidenberger 916-774-5325 msheidenberger@roseville.ca.us
Sonia Orozco 916-774-5269 sorozco@roseville.ca.us

City Clerk Sonia Orozco make the presentation to Council.

Kathleen Crawford - Spoke to concerns regarding timing for sunshine rules and on \$500 contribution limit.

Motion by Pauline Roccucci, seconded by Krista Bernasconi, to introduce simultaneously introduce for first reading a regular ORDINANCE which includes the changes denoted in the urgency ordinance with additional changes to 2.60.065(C) regarding the escalator language; and urgency ORDINANCE NO. 6183 AMENDING SECTIONS 2.60.020, 2.60.045, 2.60.065 AND 2.60.100 OF CHAPTER 2.6 OF TITLE 2 OF THE MUNICIPAL CODE REGARDING CAMPAIGN FINANCE DISCLOSURE, REPEALING CHAPTER 2.90 OF TITLE 2 OF THE ROSEVILLE MUNICIPAL CODE REGARDING CAMPAIGN EXPENDITURES, AND DECLARING THE ORDINANCE TO BE EFFECTIVE JANUARY 15, 2020 AS AN URGENCY ORDINANCE. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

9.2. Fiscal Year 2018-19 Year-End Report and Budget Adjustment

Memo from Budget Manager Scott Pettingell and Assistant City Manager/Chief Financial Officer Dennis Kauffman with a year-end version of the quarterly report for FY2018-19 for the General Fund, the enterprise operating funds, and revenues in selected other funds; and recommending the City Council adopt ORDINANCE NO. 6178 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The recommended budget adjustment transfers \$4.2 million in Measure B revenues received in FY2018-19 to the Economic Stabilization Reserve, appropriates \$8.5 million in one-time FY2018-19 General Fund resources, and appropriates \$100,000 for Police Department conductive electronic weapons funded by Citizens Option for Public Safety funding. The \$8.5

million of General Fund resources recommended for appropriation includes one-time investments in high-priority needs totaling \$3.6 million and an additional \$4.9 million transfer to the Economic Stabilization Reserve. There are adequate resources available in the General Fund and Citizens Option for Public Safety Fund to fund the identified appropriations.

CC #: 0542

File #: 0201 & 0201-01

CONTACT: Scott Pettingell 916-746-1306 spettingell@roseville.ca.us

Assistant City Manager/Chief Financial Officer Dennis Kauffman made the presentation to Council.

No public comment received.

Motion by Bruce Houdesheldt, seconded by Krista Bernasconi, to adopt ORDINANCE NO.6178 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

10. SPECIAL REQUESTS/REPORTS/PRESENTATION

10.1. Development Impact Fee Reports for the Fiscal Year Ended June 30, 2019

Memo from Administrative Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council accept the Development Impact Fee Reports for informational purposes. There is no impact to the City's General Fund.

CC #: 0533

File #: 0215

CONTACT: Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us
Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Assistant City Manager/Chief Financial Officer Dennis Kauffman made the presentation to Council.

Item for information only. No action taken.

10.2. Charter Review Commission Member Vacancy

Memo from City Clerk Sonia Orozco recommending the City Council leave the unscheduled vacancy on the Charter Review Commission unfilled due to the voluminous content to bring a new member up to speed, and the limited time remaining for the Commission to complete its objective and present a complete report to the City Council for their consideration of the 2020 ballot items. There is no fiscal impact associated with the recommendation.

CC #: 0534

File #: 0103-28

CONTACT: Sonia Orozco 916-774-5269 sorozco@roseville.ca.us

City Clerk Sonia Orozco makes the presentation to Council.

Kathleen Crawford - Spoke to concerns regarding lack of alternates for Charter Review Commission.

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to approve leaving the unscheduled vacancy on the Charter Review Commission unfilled with the intent to make the Commission a seven member Commission for quorum purposes. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

11. DEPARTMENT UPDATES

11.1. Parks, Recreation & Libraries

Parks, Recreation and Libraries Director Jill Geller made the presentation to Council.

12. COUNCIL REPORTS / PUBLIC COMMENTS

No additional public comment received.

Northern California Power Agency - Councilmember Pauline Roccucci reported on meeting with Mayor John Allard.

Regional Water Authority - Councilmember Bruce Houdesheldt reported on meeting attendance with Councilmember Pauline Roccucci.

Happy Birthday to Councilmember Scott Alvord - Councilmembers expressed good wishes.

Board & Commission Vacancies - Vice Mayor Krista Bernasconi announced vacancies and spoke to application process.

Fast Freddie's Pizza Grand Reopening - Councilmember Scott Alvord spoke on establishments new location.

-
New Housing Manager - Councilmember Scott Alvord congratulated Trisha Isom on her promotion to Housing Manager.

13. ADJOURNMENT

Mayor John B. Allard II adjourned the meeting at 7:45 p.m.

Vote: All Ayes



MINUTES

February 5, 2020

AMENDED AGENDA CITY COUNCIL MEETING

6:00 p.m.

Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us

1. CALL TO ORDER

Mayor John B Allard II called the meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Bernasconi, Alvord, Roccucci, Houdesheldt, Allard

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Cub Scout Troop 112.

4. MEETING PROCEDURES

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PRESENTATIONS

City Clerk Sonia Orozco announces Item # 5.1 Proclamation- Lunar New Year

5.1. Proclamation - Lunar New Year

Proclaim January 25 – February 8 as Lunar New Year Day, and encourage the community to embrace cultural diversity.

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

Councilmember Bruce Houdesheldt presented the Lunar New Year Proclamation to Lea and Jack Aller and friends, who responded.

Steve Cho - Thanked Council for acknowledging the Chinese celebration and diversity.

6. PUBLIC COMMENTS

Gina Woods - Spoke on pedestrian safety on Woodcreek Oaks Boulevard.

Chris O'Neil - Spoke on pedestrian safety on Woodcreek Oaks Boulevard.

7. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Motion by Pauline Roccucci, seconded by Krista Bernasconi, to approve the Consent Calendar as presented. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Minutes

7.1. Minutes of Prior Meetings

Memo from City Clerk Sonia Orozco recommending the City Council approve the minutes for the City Council meetings and workshops of October 2, 2019; October 9, 2019 Strategic Planning Workshop; October 10, 2019 Strategic Planning Workshop; October 23, 2019; November 6, 2019 Closed Session/City Council; November 20, 2019 City Council/Housing Successor; December 4, 2019 Closed Session/City Council; December 18, 2019 Legislative Platform Workshop; December 18, 2019 Closed Session/City Council/Housing Successor; December 20, 2019 Special meeting.

CC #: 0577

File #: 0102-03

CONTACT: Sonia Orozco 916-774-5269 sorozco@roseville.ca.us

Bids / Purchases / Services

7.2. Maidu Community Center Store Front Doors (RFQ 10-3242) – Reject All Bids

Memo from Buyer Tiffany Valdez and Assistant City Manager/Chief Financial

Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-024 REJECTING ALL BIDS FOR MAIDU COMMUNITY CENTER STORE FRONT DOORS (RFQ 10-3242). Staff recommends City Council reject all bids received for Request for Quotes 10-3242 for the Maidu Community Center Store Front Doors because both all bids received were over the Public Works Department's Facility Rehabilitation available budget. There is no fiscal impact at this time, since there will be no contract award.

CC #: 0569

File #: 0203-10 & 0203-21

CONTACT: Tiffany Valdez 916-774-5708 tvaldez@roseville.ca.us

7.3. 600V, 15kV and Control and Instrumentation Cable (RFQ 10-3244) - Reject All Bids

Memo from Buyer Babette Owens and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-023 REJECTING ALL BIDS FOR THE PURCHASE OF 600V, 15KV AND CONTROL AND INSTRUMENTATION CABLE (RFQ 10-3244). Staff recommends the City Council reject all bids received for Request for Quotes #10-3244 for the purchase of 600V, 15kV and Control and Instrumentation Cable. Upon Council's approval to reject all current bids, a new bid will be issued that will clarify the language on the price sheet. There is no fiscal impact at this time, since there will be no contract award.

CC #: 0568

File #: 0203-07 & 0203-21

CONTACT: Babette Owens 916-774-5704 bowens@roseville.ca.us

7.4. Oak Ridge Drive Bridge Replacement Project - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Principal Engineer Stefanie Kemen and Public Works Director Jason Shykowski recommending the City Council approve the plans and specifications for the Oak Ridge Drive Bridge Replacement project and authorize staff to call for bids. The project will replace the existing two-lane bridge over Linda Creek with a longer, standard two-lane bridge widened to include shoulders and sidewalks on both sides. The estimated cost for the project is \$4,503,000 and the project will be fully funded by the federal Highway Bridge Program and Toll Credit funds. No General Fund resources will be used for the project.

CC #: 0562

File #: 0900-04-01

CONTACT: Stefanie Kemen 916-746-1300 skemen@roseville.ca.us

7.5. LED Streetlight Upgrade Project – Service Agreement Amendment

Memo from Electric Operations Supervisor Jeff Beaubier and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-017 APPROVING AMENDMENT NO. 1 TO SERVICE AGREEMENT BETWEEN CITY OF ROSEVILLE AND ST. FRANCIS ELECTRIC, LLC,

AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1908110). This item requests City Council authorize a service agreement amendment with St. Francis Electric, LLC to continue to perform services for the LED Streetlight Upgrade project, which entails replacing a portion of the City's streetlights with Light Emitting Diode luminaires. The amendment will extend the service agreement term by one year to February 5, 2021 and not increase the service agreement dollar amount.

CC #: 0555

File #: 0800-03

CONTACT: Jeff Beaubier 916-774-5611 jbeaubier@roseville.ca.us

7.6. 230/60kV Transformer - Contract Purchase Agreement

Memo from Senior Power Engineer Chris Porter and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-016 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND HYUNDAI POWER TRANSFORMERS USA, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000151). This item recommends authorization of a contract purchase agreement with Hyundai Power Transformers USA, Inc. for the design, manufacture, testing, delivery and installation of a 230/60kV transformer. The cost is \$2,835,107 and funding is included in the Electric Department FY2019-20 budget.

CC #: 0554

File #: 0203-07-02

CONTACT: Chris Porter 916-774-5615 cporter@roseville.ca.us

7.7. Vehicle Purchases & Public Safety Contract Purchase Agreement

Memo from Fleet Manager Brian Craighead and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-028 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND STOMMEL, INC. DBA LEHR AUTO ELEC & EMERGENCY EQUIPMENT, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and approve a purchase order to Oroville Ford, Inc. for one Ford F250 truck utilizing RFQ 10-3243 in the amount of \$39,801; approve a purchase order to Altec Industries, Inc. for one TS40-PT trailer mounted single drum cable puller/tensioner utilizing Sourcwell contract# 012418-ALT in the amount of \$107,476; approve a purchase order to Riverview International Trucks, LLC for three International trucks with dump bodies utilizing RFQ 10-3245 in the amount of \$414,609; approve a purchase order to Towne Motor Company dba Town Ford for thirty-three Ford Police Interceptor Utility Hybrids utilizing RFQ 10-3246 in the amount of \$1,489,533; approve a contract purchase agreement with Stommel, Inc. dba LEHR Auto Electric & Emergency to provide public safety vehicle parts and services utilizing Placer County's contract# SCN102052 in an amount not to exceed \$550,000. Funding for these vehicles and the contract purchase agreement is included in the FY2019-20 Auto Replacement budget.

CC #: 0573

File #: 0203-01

CONTACT: Brian Craighead 916-774-5731 bcraighead@roseville.ca.us

Resolutions

7.8. Villages at Sierra Vista Community Facilities District Landscape Project - Notice of Completion

Memo from Construction Inspector Troy Galvin and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 19-029 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS VILLAGES AT SIERRA VISTA CFD LANDSCAPE PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City Specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 0575

File #: 0206-03-01

CONTACT: Troy Galvin 916-774-5494 jtgalvin@roseville.ca.us

7.9. Electric Outage Management System and Interactive Voice Response Systems – Services Agreement

Memo from Operations Manager Jason Grace and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-026 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND DATAVOICE INTERNATIONAL, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000172). This item requests City Council authorize a service agreement with dataVoice International, Inc. to perform services for the procurement, integration, implementation, and annual maintenance of Electric Outage Management and Interactive Voice Response (OMS and IVR) systems in the amount of \$382,983.50 and to authorize the City Manager or his designee change order authority of 15% for a total contract amount not to exceed \$440,429. This item further requests the authority for staff to execute annual system maintenance agreements for the OMS and IVR for an additional 4 years. Funding is included in the Electric Department's FY2019-20 Dispatch Center capital improvement project budget. Future year annual system maintenance costs for OMS and IVR are estimated at \$58,000 and will be subject to City Council budget approval.

CC #: 0571

File #: 0800-03

CONTACT: Jason Grace 916-774-5643 jgrace@roseville.ca.us

7.10. Revenue Enhancement Services - Professional Services Agreement Amendment

Memo from Business Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-018 APPROVING A SECOND AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND MUNISERVICES, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests renewal of a professional services with MuniServices, LLC to perform revenue enhancement services, including the review and examination of sales and transactions and use tax records. The recommended second amendment exercises the final renewal option for one year and accordingly increases the total compensation authorized under this agreement by \$125,000, bringing the total contract not to exceed to \$625,000. There are adequate funds available in the FY2019-20 approved budget to fund this amendment.

CC #: 0560

File #: 0200

CONTACT: Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us

Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

7.11. Roseville Lofts - Infill Parcel 246 - Affordable Purchase Housing Agreement

Memo from Housing Manager Trisha Isom and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 20-027 APPROVING AN AFFORDABLE PURCHASE HOUSING AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND C & P DEVELOPMENT LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of an Affordable Purchase Housing Agreement (APHA) with C & P Development LLC, developers of Infill Parcel 246 (aka Roseville Lofts), who is required to enter into an APHA with the City to implement the affordable housing obligations for the parcel. In accordance with the City's General Plan requirements, the developer will build two (2) of the subdivision's twenty-two (22) homes as affordable purchase units available to middle income buyers. The subsidies for the program are funded by the developer and do not impact the General Fund.

CC #: 0572

File #: 0709-03-01

CONTACT: Trisha Isom 916-746-1239 tisom@roseville.ca.us

7.12. Sierra Vista Specific Plan, Westbrook Phase 3 - Transit Bus Shelters 262 and 267 - Transit Bus Shelter Construction Fee Agreement

Memo from Alternative Transportation Analyst Eileen Bruggeman and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-021 APPROVING A TRANSIT BUS SHELTER CONSTRUCTION FEE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND WESTPARK S.V. 400, LLC, AND AUTHORIZING THE

CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 20-022 APPROVING A TRANSIT BUS SHELTER CONSTRUCTION FEE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND WESTPARK S.V. 400, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of two (2) transit bus shelter fee agreements with Westpark S.V. 400, LLC, who proposes execution of the agreements in compliance with project conditions of approval. The required \$10,000 fee per shelter has been received, and will be used at a future date to install bus shelters when fixed route transit services are extended to the area.

CC #: 0567

File #: 0721

CONTACT: Eileen Bruggeman 916-774-5293 ebruggeman@roseville.ca.us

7.13. Sierra Vista Specific Plan, Westbrook Phase 3 - Transit Bus Shelter #270 Construction Fee Agreement

Memo from Alternative Transportation Analyst Eileen Bruggeman and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-020 APPROVING A TRANSIT BUS SHELTER CONSTRUCTION FEE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND K. HOVNANIAN HOMES NORTHERN CALIFORNIA, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of a transit bus shelter fee agreement with K. Hovnanian Homes Northern California, Inc. who proposes execution of the agreement in compliance with a project condition of approval. The required \$10,000 fee has been received, and will be used at a future date to install a bus shelter when fixed route transit services are extended to the area.

CC #: 0565

File #: 0721

CONTACT: Eileen Bruggeman 916-774-5293 ebruggeman@roseville.ca.us

7.14. Sierra Vista Specific Plan, Federico/Westpark Phase 1 - Transit Bus Shelter #289 Construction Fee Agreement

Memo from Alternative Transportation Analyst Eileen Bruggeman and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-019 APPROVING A TRANSIT BUS SHELTER CONSTRUCTION FEE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND SOLAIRE COMMUNITY BUILDERS, LLC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of a transit bus shelter fee agreement with Solaire Community Builders, LLC who proposes execution of the agreement in compliance with a project condition of approval. The required \$10,000 fee has been received, and will be used at a future date to install a bus shelter when fixed route transit services are extended to the area.

CC #: 0564

File #: 0721

CONTACT: Eileen Bruggeman 916-774-5293 ebruggeman@roseville.ca.us

7.15. Modification of Oakmont High School District Permit Parking

Memo from Assistant Engineer Ted Treleven and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-025 APPROVING PERMIT PARKING AREAS AND REPEALING RESOLUTION NO. 17-478. Staff recommends approving the addition of residential permit parking on Oakwood Drive, Woodglen Court, and the 1000 block of Woodglen Drive from 8:00 a.m. to 3:00 p.m. on weekdays while school is in session. The cost of installing the permit parking signs is included in the Public Works Department's Street Maintenance Division operating budget.

CC #: 0570

File #: 0316-03

CONTACT: Ted Treleven 916-774-5344 ttreleven@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

7.16. Facility Rehabilitation Projects - Budget Adjustment

Memo from Administrative Analyst Rodney Funke and Public Works Director Jason Shykowski recommending the City Council adopt ORDINANCE NO. 6184 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This budget adjustment is needed to establish seven projects allowing improved tracking of costs for the nine different funds associated with the remaining FY2019-20 facility rehabilitation projects. The requested budget adjustments will transfer \$1,350,397 from available resources in the Facility Rehabilitation Fund into capital improvement projects.

CC #: 0574

File #: 0800-01 & 0201-01

CONTACT: Rodney Funke 916-774-5561 rfunke@roseville.ca.us

Ordinances (for second reading and adoption)

7.17. Second Reading of Ordinance - Campaign Finance Ordinance Amendment

ORDINANCE NO. 6185 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTIONS 2.60.020, 2.60.045, 2.60.065 AND 2.60.100 OF CHAPTER 2.60 OF TITLE 2 OF THE ROSEVILLE MUNICIPAL CODE REGARDING CAMPAIGN FINANCE DISCLOSURE, REPEALING CHAPTER 2.90 OF TITLE 2 OF THE ROSEVILLE MUNICIPAL CODE REGARDING CAMPAIGN EXPENDITURES, for second reading and adoption.

CC #: 0575

File #: 0502

CONTACT: Audrey Byrnes 916-774-5268 abyernes@roseville.ca.us

Reports / Requests

7.18.Out-of-State Travel Request - Environmental Utilities

Memo from Wastewater Collection Superintendent Chris Bracco and Environmental Utilities Director Richard Plecker recommending the City Council approve out of state travel for two Environmental Utility staff members to attend a hands-on training repair course at CUES Inc. in Orlando, Florida. Travel and lodging costs are estimated to be \$1,600, and funding is included in the Wastewater Operations fund. There is no fee associated with the hands-on training.

CC #: 0556

File #: 0600-02

CONTACT: Chris Bracco 916-746-1892 cbracco@roseville.ca.us

7.19.Out-of-State Travel Request - Fire Department

Memo from Division Chief Jason Rizzi and Fire Chief Rick Bartee recommending the City Council approve out-of-state travel in February for one department member to attend a week-long Enhanced All-Hazards Incident Management/Unified Command training in College Station, Texas. Costs related to travel, airfare, lodging and per diem are covered by the Department of Homeland Security and the Federal Emergency Management Agency. There is no cost to the City or impact to the General Fund.

CC #: 0557

File #: 0600-02

CONTACT: Jason Rizzi 916-774-5802 jrizzi@roseville.ca.us

7.20.Out-of-State Travel Request - Police Department

Memo from Public Safety Program Coordinator Traci Drake and Police Chief James Maccoun recommending the City Council approve a member of the Police Department's Crime Suppression Unit to travel to Quantico, Virginia from February 10 - 15, 2020 for training in Basic Clandestine Laboratory Safety. The Department of Justice and Drug Enforcement Administration will pay all costs associated with the training, including tuition, airfare, lodging, transportation and meals. There will be no cost to the City.

CC #: 0559

File #: 0600-02

CONTACT: Traci Drake 916-746-1081 tdrake@roseville.ca.us

Ceremonial Documents

7.21.Resolution - Dr. Vinay Reddy M.D.

Commend Dr. Vinay M. Reddy, M.D. on his continued efforts to help patients improve their quality of life and function.

CC #: 0576

File #: 0102-10

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

7.22. Resolution - Maidu Museum & Historical Sites 10 Year Anniversary

Congratulate Maidu Museum & Historic Site on their 10 Year Anniversary and encourage all citizens to celebrate this momentous milestone for the cultural institution.

CC #: 0578

File #: 0102-10

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

END OF CONSENT CALENDAR

8. SPECIAL REQUESTS/REPORTS/PRESENTATION

8.1. Fiscal Year 2020-21 Budget Schedule

Memo from Budget Manager Scott Pettingell and Assistant City Manager/Chief Financial Officer Dennis Kauffman with an update on the budget schedule for FY2020-21. Each year, Finance staff provides the City Council with the schedule for developing the proposed budget that outlines key dates through budget adoption as well as upcoming staff presentations. There is no fiscal impact with receiving this budget schedule.

CC #: 0563

File #: 0201

CONTACT: Scott Pettingell 916-746-1306 spettingell@roseville.ca.us

Assistant City Manager/Chief Financial Officer Dennis Kauffman and Budget Manager Scott Pettingell made the presentation to Council

No public comment received.

Item for information only. No action taken.

9. APPOINTMENTS

9.1. Board and Commissions Unscheduled Vacancies

Memo from Deputy City Clerk Katrina Six and City Clerk Sonia Orozco recommending the City Council appoint two (2) individuals to the Local Sales Tax Citizens' Oversight Committee with terms expiring June 30, 2021 from the applications received from: Patrick Comstock, Gloria Dyer, Christopher Kight, and Linda Varnum; appoint one (1) individual to the Personnel Board with a term expiring December 31, 2022 from the applications received from: Patrick Comstock, Thomas Lamb, and Linda Varnum; appoint one (1) individual to the Public Utilities Commission with a term expiring June 30, 2021 from the applications received from: Gloria Dyer, Ralph Jahr, Christopher Kight, James Knox, Thomas Lamb, Sandra McGregor, and Madeline Verzola; and appoint one (1) individual to the Transportation Commission with a term expiring December 31, 2020 from the applications received from: Ralph Jahr, Nicholas O'Neill, Jason Probst, Sergey Terebkov, and Madeline Verzola.

CC #: 0561

File #: 0103-21-03, 0103-06-03, 0103-09-03, 0103-13-03

CONTACT: Katrina Six 916-774-5267 kmsix@roseville.ca.us

City Clerk Sonia Orozco made the presentation to Council

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to appoint Patrick Comstock and Christopher Kight to the Local Citizens' Oversight Committee with terms expiring June 20, 2021. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Motion by Krista Bernasconi, seconded by Scott Alvord, to appoint Thomas Lamb to the Personnel Board with a term expiring December 31, 2022. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to appoint James Knox to the Public Utilities Commission with a term expiring June 30, 2021. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Motion by Pauline Roccucci, seconded by Krista Bernasconi, to appoint Jason Probst to the Transportation Commission with a term expiring December 31, 2020. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

10. COUNCIL REPORTS / PUBLIC COMMENTS

No additional public comment received.

Council Reports:

Tour of Penumbra - Councilmember Pauline Roccucci commented on tour of facility.

Relocation of U.S. Post Office - Councilmember Pauline Roccucci spoke in favor of relocating facility in downtown Roseville.

Medical Forum on Opioid Addiction - Councilmember Pauline Roccucci reported on attendance.

City School District Foundation Fundraiser - Councilmember Bruce Houdesheldt reported on attendance at comfort food fundraiser for music education.

South Placer Waste Water Authority - Councilmember Bruce Houdesheldt reported on meeting.

116 Vernon Street - Vice Mayor Krista Bernasconi commented on purchase.

Police Ride-Along - Vice Mayor Krista Bernasconi thanked police department for opportunity.

Pedestrian Accident - Vice Mayor Krista Bernasconi acknowledged Gina Woods and wished a speedy recovery to the woman who was involved in the incident.

Martin Luther King Memorial Walk - Councilmember Scott Alvord reported on attending celebration in Rocklin.

Robert Sanchez Memorial Bench Fundraiser - Councilmember Scott Alvord spoke on amount raised for bench with additional funds to go to a scholarship in Robert's memory.

Roseville Police Activities League (RPAL) - Councilmember Scott Alvord spoke on presentation on tobacco issues and vaping. Councilmember Scott Alvord requested a future agenda item in which Placer County would come and make a presentation and provide the City Council with some options to combat the skyrocketing use of tobacco products in our society. Council consensus to invite Placer County to make a presentation at a future meeting.

Downtown U.S. Post Office - Mayor John Allard on attendance at meeting to encourage participation in keeping the U.S. Post Office in the downtown corridor.

Pedestrian Safety - Assistant City Manager Dion Louthan spoke to response to accident including education to drivers, enforcement, crosswalk improvement, installing physical elements including stop signs, and human elements such as additional crossing guards.

11. ADJOURNMENT

Motion by Bruce Houdesheldt, seconded by Scott Alvord, to adjourn meeting at 6:54 p.m. in honor of Robert Sanchez. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci



MINUTES

February 19, 2020

CITY COUNCIL MEETING
ROSEVILLE NATURAL GAS FINANCING AUTHORITY
6:00 p.m.
Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us

1. CALL TO ORDER

Mayor John B Allard II called the meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Bernasconi, Alvord, Roccucci, Houdesheldt, Allard

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Councilmember Scott Alvord.

4. MEETING PROCEDURES

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PUBLIC COMMENTS

Paul Comiske - Spoke to concerns regarding Vernon Street and in support of railyard beautification.

Nick Bryant - Spoke to concerns regarding speeding traffic on Dressler Street.

6. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Motion by Krista Bernasconi, seconded by Bruce Houdesheldt, to remove item 6.1 from the Consent Calendar to be discussed separately and approve the remaining items as presented. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Bids / Purchases / Services

6.1. Maidu Covered Soccer Arena Improvement Project - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Park Development Analyst Heather Buck and Parks, Recreation & Libraries Director Jill Geller recommending the City Council approve the plans and specifications for the Maidu Covered Soccer Arena Improvement project and authorize staff to call for bids. This facility is located on the 152-acre regional park site located east of Rocky Ridge Drive and south of Douglas Boulevard. The project includes alterations to the existing covered soccer arena to improve access, cleanliness, and spectator comfort. Funding for the park improvements is provided through the Parks, Recreation & Libraries Rehabilitation Fund and was carried forward from the unspent portion of the FY2018-19 budget. Maintenance of the existing citywide park is budgeted in the General Fund and will remain unchanged.

CC #: 0587

File #: 0900-07 & 0714-01

CONTACT: Heather Buck 916-774-5254 hcbuck@roseville.ca.us

Item 6.1 - Maidu Covered Soccer Arena Improvement Project - Approve Bids and Specifications and Call to Bid

Removed by Alan Bartley to address dust issues and requesting paving of parking lot.

Parks, Recreation & Libraries Director Jill Geller made the presentation to Council.

City Manager Dominick Casey spoke to future improvement plans based on funding availability.

Motion by Pauline Roccucci, seconded by Krista Bernasconi, to approve the plans and specifications for the Maidu Covered Soccer Arena Improvement project and authorize staff to call for bids. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

6.2. Oak Street Parking Facility 7th Floor Sealing Project - Award of Contract

Memo from Assistant Engineer Beth Taylor and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-035 APPROVING AN AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND THE DESIGN BUILD, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends award of the Oak Street Parking Facility 7th Floor Sealing project to the lowest responsive bidder, The Design Build Inc., in the amount of \$160,320 and authorization for staff to approve change orders up to 5% (\$8,016) as a construction contingency. The scope of this project consists of preparing the surface and applying methacrylate to the 7th floor of the Oak Street Parking Facility. The project is funded by the Public Facilities Fee Fund, Redevelopment Successor Agency funds, and a design consultant reimbursement. No General Fund resources are being used for this project.

CC #: 0588

File #: 0900-04

CONTACT: Beth Taylor 916-746-1300 bftaylor@roseville.ca.us

6.3. 15kV Metal-Clad Switchgear (RFQ 10-3240) - Contract Purchase Agreement

Memo from Buyer Babette Owens and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-044 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND CROWN TECHNICAL SYSTEMS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000195). Staff requests approval of a contract purchase agreement with Crown Technical Systems, as the only bid received to design, deliver, and install an industrial substation 15kV metal-clad switchgear. The total cost of the product and services is \$814,005. Funding is included in the Electric Department's FY2019-20 capital budget.

CC #: 0603

File #: 0203-07-01

CONTACT: Babette Owens 916-774-5704 bowens@roseville.ca.us

6.4. Electrical Maintenance and Repair Services - Contract Purchase Agreement

Memo from Office Assistant Tisha Chin and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-034 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND VASKO ELECTRIC INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000180). Staff recommends approval of a contract purchase agreement with Vasko Electric, Inc. in the amount of \$350,000 to provide electrical maintenance and repairs at various City locations on an as-needed basis. Funding for the agreement is included in the Facility Services and Facility Rehabilitation FY2019-20 budget and will be included in the proposed FY2020-21 budget. This is the third of four optional renewals years. Staff requests authorization to utilize the optional renewal years of the contract without further Council approvals until the

contract expires, contingent upon budget approval each year, or until City staff determines that continuing with the same vendor is not in the City's best interest. Staff requests the contract authority for the fourth and final optional year, FY2021-22, be increased to \$400,000, pending Council approval of the budget for that year.

CC #: 0585

File #: 0203-04

CONTACT: Tisha Chinn 916-774-5702 tchinn@roseville.ca.us

6.5. Technology Equipment – Purchase Order Spending Authority Increase

Memo from Electric Technology Systems Administrator Sage Armstrong and Electric Utility Director Michelle Bertolino requesting the City Council approve an increase in spending authority for two existing contracts with Dell Marketing, L.P. and CDW-G from \$120,000 to \$300,000. The Electric Department has the need to purchase additional hardware and software to support several initiatives to advance grid technology to secure key infrastructure and to improve customer communications. Funding is included in the FY2019-20 Electric Fund budget.

CC #: 0609

File #: 0203-06

CONTACT: Sage Armstrong 916-774-5679 sarmstrong@roseville.ca.us

Resolutions

6.6. Sierra Vista Village JM-04A Phase 1 - Notice of Completion

Memo from Construction Inspector Troy Galvin and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-036 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS SIERRA VISTA VILLAGE JM-04A PHASE 1 PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 0595

File #: 0400-04-12-1

CONTACT: Troy Galvin 916-774-5494 jtgalvin@roseville.ca.us

6.7. Sierra Vista Village JM-04B Phase 2 - Notice of Completion

Memo from Construction Inspector Troy Galvin and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-037 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS SIERRA VISTA VILLAGE JM-04B PHASE 2 PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND

AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 0596

File #: 0400-04-12-1

CONTACT: Troy Galvin 916-774-5494 jtgalvin@roseville.ca.us

6.8. West Roseville Specific Plan Parcel F-55 Park Abandonment

Memo from Planning Manager Greg Bitter and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-047 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE DECLARING ITS INTENTION TO ABANDON A PORTION OF WEST ROSEVILLE SPECIFIC PLAN PARCEL F-55 AS A CITY PARK AND SETTING A PUBLIC HEARING FOR APRIL 1, 2020. This item begins the process of abandoning a portion of West Roseville Specific Plan (WRSP) Parcel F-55 as a City park. The park abandonment is a requirement of an executed Purchase and Sale Agreement between the City and West Roseville, LLC that will result in the City receiving ownership of WRSP Parcel W-60a and West Roseville LLC receiving ownership of a portion of WRSP Parcel F-55. The necessary entitlements and environmental review which would permit development of either property will be part of a future City Council action. There are no direct impacts to the General Fund as a result of this item.

CC #: 0607

File #: 0704

CONTACT: Greg Bitter 916-774-5294 gbitter@roseville.ca.us

6.9. Architectural and Engineering Design Services for Aquatics Facilities – On-Call Professional Design Services Agreement

Memo from Park Development Analyst Heather Buck and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 20-030 APPROVING AN ON-CALL PROFESSIONAL DESIGN SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND JEFF KATZ ARCHITECTURAL CORPORATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE and authorizing the City Manager to execute the renewals of the agreements for the remaining years without further Council approval. The Parks, Recreation & Libraries Department is projecting a number of capital improvement projects at the City's three aquatic facilities (Johnson Pool, Mike Shellito Indoor Pool, and Roseville Aquatics Complex) over the next five years. The initial agreement will be from date of award through June 2021 and includes the option of two additional one-year extensions. Funding for professional design services shall be provided through Capital Improvement Projects as approved during the fiscal year budgets or an approved professional design services budget. Project

specific quotes will be obtained prior to the start of any work. The initial agreement total is not to exceed \$250,000.

CC #: 0581

File #: 0900-07 & 0707

CONTACT: Heather Buck 916-774-5254 hcbuck@roseville.ca.us

6.10. Congestion Mitigation and Air Quality Grant Applications for the FY2023-25 Funding Cycle

Memo from Principal Engineer Stefanie Kemen and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-031 AUTHORIZING STAFF TO SUBMIT APPLICATIONS FOR CONGESTION MITIGATION AND AIR QUALITY GRANT FOR FY 2023-2025 FUNDING CYCLE for the Vernon Street and Folsom Road Roundabout project.

CC #: 0582

File #: 0214 & 0900-04-02

CONTACT: Stefanie A. Kemen 916-746-1300 skemen@roseville.ca.us

6.11. Roseville Parkway Extension Project – Reimbursement Agreement for Preliminary Engineering Services

Memo from Assistant Engineer Daniel Lierly and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-039 APPROVING A REIMBURSEMENT AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND UNION PACIFIC RAILROAD COMPANY, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends Council approve an agreement to reimburse Union Pacific Railroad (UPRR) for preliminary engineering services which are estimated at \$25,000 for the Roseville Parkway Extension project. The proposed roadway crosses the rail line owned by UPRR, and therefore the design and construction of the bridge requires their review and oversight. UPRR charges for their actual costs for these services. The environmental and design portion of the project, including this agreement, is fully funded with Traffic Mitigation fees and sufficient funds already exist in the project's budget to cover this cost. No General Fund resources are being used for this project.

CC #: 0600

File #: 0900-04-02 & 1008

CONTACT: Daniel Lierly 916-746-1300 delierly@roseville.ca.us

6.12. Updates to Energy Trading Authority Policy and Reaffirmation of Policies

Memo from Electric Risk and Compliance Supervisor Petra Wallace and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-046 AFFIRMING THE ENERGY HEDGE POLICY, THE ENERGY UTILITY RISK MANAGEMENT POLICY, AND THE ENERGY CREDIT RISK POLICY AND ADOPTING THE ENERGY TRADING AUTHORITY POLICY. The Energy Trading Authority Policy is recommended to

be updated by giving authority to the Electric Utility Director to trade Energy Exchange products in order to lower cost, reduce risk, or increase reliability. The other three existing Energy Risk Management Policies require reaffirmation every two years. The Utility's Risk Management Committee and Risk Oversight Committee both recommend approval of this change. There is no fiscal impact associated with this policy change and policy reaffirmation.

CC #: 0605

File #: 0800-03

CONTACT: Petra Wallace 916-774-5510 pwallace@roseville.ca.us

6.13.Swap Transaction Qualified Independent Representative Selection - Policies and Procedures Amendments

Memo from Electric Risk and Compliance Supervisor Petra Wallace and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-038 AMENDING THE CITY OF ROSEVILLE ELECTRIC DEPARTMENT SWAP TRANSACTION QUALIFIED INDEPENDENT REPRESENTATIVE SELECTION POLICY AND PROCEDURES 2/19/2020; and adopt ROSEVILLE NATURAL GAS FINANCING AUTHORITY RESOLUTION NO. 1-20 AMENDING THE ROSEVILLE NATURAL GAS FINANCING AUTHORITY SWAP TRANSACTION QUALIFIED INDEPENDENT REPRESENTATIVE SELECTION POLICY AND PROCEDURES 2/19/2020. Policies related to the City's Qualified Independent Representatives are recommended to be updated as a result of organizational and position title changes. There is no fiscal impact associated with these policy changes.

CC #: 0597

File #: 0103-17 & 0800-03

CONTACT: Petra Wallace 916-774-5510 pwallace@roseville.ca.us

6.14.Creekview Specific Plan - Pacific Gas and Electric Overhead Line Relocation Easements

Memo from Assistant Engineer Kerry Andrews and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-032 APPROVING AN EASEMENT DEED, BETWEEN THE CITY OF ROSEVILLE AND PACIFIC GAS AND ELECTRIC COMPANY, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 20-033 APPROVING AN EASEMENT DEED, BETWEEN THE CITY OF ROSEVILLE AND PACIFIC GAS AND ELECTRIC COMPANY, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. PG&E maintains an existing overhead power line that is located within the Creekview property and City-owned property. This power line is being relocated to accommodate the improvements associated with the development of the Creekview Specific Plan. These easements will complete the connection of the new alignment and will allow PG&E to operate and maintain the power lines underground. This action will have no fiscal impact to the City's General Fund.

CC #: 0583

File #: 1002-06

CONTACT: Kerry Andrews 916-774-5346 kandrews@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

6.15. Assembly Bill 109 Community Outreach - Budget Adjustment

Memo from Administrative Analyst Shelly Bracco and Police Chief James Maccoun recommending the City Council adopt ORDINANCE NO. 6186 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Police Department has \$8,944 in unearned revenue from the AB109 Governor's Outreach project originally received in FY2017-18. The recommended budget adjustment will add \$8,944 to the Police Department's budget and the funds will be spent in social services for outreach programs. This budget adjustment will increase both revenues and expenditures in the General Fund by \$8,944.

CC #: 0584

File #: 0323 & 0201-01

CONTACT: Shelly Bracco 916-774-5018 sbracco@roseville.ca.us

6.16. 2019 Justice Assistance Grant Award and Budget Adjustment

Memo from Department Public Information Officer Rob Baquera and Police Chief James Maccoun recommending the City Council adopt RESOLUTION NO. 20-042 ACCEPTING A GRANT AWARD FROM THE UNITED STATES DEPARTMENT OF JUSTICE, OFFICE OF JUSTICE PROGRAMS AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE GRANT AWARD DOCUMENT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6187 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The City has been allocated a grant from the U.S. Department of Justice, Office of Justice Programs. The amount of the grant is determined by a formula comprised of the jurisdiction's population and crime rate. This year, the City has been allocated \$15,811. The Police Department recommends using the grant to support the department's crime prevention, marketing, and public outreach efforts.

CC #: 0601

File #: 0214 & 0323 & 0201-01

CONTACT: Rob Baquera 916-774-5015 rbaquera@roseville.ca.us

Reports / Requests

6.17. Roseville Community Development Corporation – Annual Corporate Update for

FY2018-19, FY2019-20 Budget, Appointment of Directors, and Financial Status

Memo from Development Services Director/Roseville Community Development Corporation Chief Executive Officer Mike Isom with an update to the City Council regarding the Roseville Community Development Corporation's (RCDC) fiscal status and the FY2019-20 budget, and to report the RCDC's recent activities. This current annual report is provided for informational purposes and no Council action is required with respect to the update. In addition to the annual update, the Council is requested to take action to reappoint Howard Rudd, John Norman, Nick Alexander, and Louise Walker to the RCDC Board of Directors for terms ending in 2021, 2022, 2023, and 2023, respectively.

CC #: 0592

File #: 0103-15-02

CONTACT: Mike Isom 916-774-5527 misom@roseville.ca.us

6.18.Appointment to Sites Reservoir Joint Powers Authority Board

Memo from Assistant Environmental Utilities Director Sean Bigley and Environmental Utilities Director Rich Plecker recommending the City Council appoint Councilmember Bruce Houdesheldt to the Sites Reservoir Joint Powers Authority.

CC #: 0580

File #: 0800-02

CONTACT: Sean Bigley 916-774-5513 sbigley@roseville.ca.us

6.19.Legislative and Regulatory Platform for State and Federal Advocacy - 2020

Memo from Government Relations Administrator Mark Wolinski and Deputy City Manager Megan MacPherson recommending the City Council adopt the Legislative Platform which includes a set of priorities and legislative principles to guide the City's State and Federal legislative and judicial advocacy programs through 2020.

CC #: 0599

File #: 0103-32-02

CONTACT: Mark Wolinski 916-774-5179 mwolinski@roseville.ca.us

6.20.Out-of-State Travel Request - Economic Development Department

Memo from Economic Development Director Laura Matteoli recommending the City Council approve two economic development staff members and one councilmember to attend travel out of state for the South by Southwest tradeshow in Austin, TX with the Greater Sacramento Economic Council in March for regional economic development business attraction efforts. The total costs related to tradeshow registration, airfare, lodging, and per diem for each attendee is \$3,433, totaling \$10,299 for all attendees. Funds are available within the Economic Development Department and City Council FY2019-20 budgets.

CC #: 0589

File #: 0600-02

CONTACT: Laura Matteoli 916-774-5284 lmatteoli@roseville.ca.us

6.21.Out-of-State Travel Request - Police Department

Memo from Police Captain Troy Bergstrom and Police Chief James Maccoun recommending the City Council approve out-of-state travel for 15 members of the Police Department, including the Department Honor Guard, to attend the National Police Memorial Week in Washington DC from May 12th to 16th, 2020 in remembrance of the 25th anniversary of the loss of Roseville Police Officer Mark White. All travel costs associated with attendance at the memorial, including airfare, lodging, transportation, and meals are covered through donations or private funding by the attendees.

CC #: 0590

File #: 0600-02

CONTACT: Troy Bergstrom 916-774-5058 tbergstrom@roseville.ca.us

6.22.Out of State Travel Request - Police Department

Memo from Public Safety Program Coordinator Traci Drake and Police Chief James Maccoun recommending the City Council approve out of state travel for two police captains to travel to Quantico, Virginia in March 2020 for the graduation of a police lieutenant attending the FBI National Academy. The total cost to attend the graduation is \$1,490, which includes flight, hotel and rental car. These costs are included in the FY2019-20 Police Department budget.

CC #: 0591

File #: 0600-02

CONTACT: Traci Drake 916-746-1081 tdrake@roseville.ca.us

Ceremonial Documents

6.23.Resolution - Ted Treleven

Commend Ted Treleven for his 15 years of outstanding service and dedication to the City of Roseville and extend wishes for a long, healthy, and enjoyable retirement.

CC #: 0593

File #: 0102-10

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

6.24.Resolution - Einar L. Maisch

Commend Einar L. Maisch for 34 years of outstanding service and dedication to the people of Placer County and extend wishes for a long, healthy, and enjoyable retirement.

CC #: 0610

File #: 0102-10

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

END OF CONSENT CALENDAR

7. RESOLUTIONS

7.1. Cooperative Vocational Education Agreement with Roseville Joint Union High School District

Memo from Assistant Human Resources Director Hedy Dehghan and Human Resources Director Stacey Peterson recommending the City Council adopt RESOLUTION NO. 20-045 APPROVING A COOPERATIVE VOCATIONAL EDUCATION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ROSEVILLE JOINT UNION HIGH SCHOOL DISTRICT, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Roseville Joint Union High School District coordinates Exploratory Work Experience Education (EWEE) programs for students to sample a variety of job opportunities to determine their interest and suitability for the occupation they are exploring and to supplement the curriculum they are actively engaged in at school. This agreement would provide the EWEE students internship learning opportunities and oversight. There is no fiscal impact to the City.

CC #: 0604

File #: 0600 & 0705

CONTACT: Hedy Dehghan 916-774-5205 hdehghan@roseville.ca.us

Human Resources Director Stacey Peterson made the presentation to Council.

Assistant Human Resources Director Hedy Dehghan continued the presentation to Council.

Terri Griffith - Coordinator for Work Based Learning Programs at Roseville High School - Spoke in support of program and on benefits of work based learning.

Jacob Stout - Granite Bay High School - spoke in support of project and on benefits of internship.

No public comment received.

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to adopt RESOLUTION NO. 20-045 APPROVING A COOPERATIVE EDUCATION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ROSEVILLE JOINT UNION HIGH SCHOOL DISTRICT, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

8. ORDINANCES

8.1. Staffing and Salary Schedule Changes

Memo from Human Resources Manager Linda Hampton and Human Resources Director Stacey Peterson recommending the City Council re-adopt ORDINANCE NO. 6170 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6158, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX "G" TO BE EFFECTIVE JANUARY 4, 2020, AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 6189 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6170, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX "H" TO BE EFFECTIVE FEBRUARY 29, 2020, AS AN URGENCY MEASURE. Staff is recommending that the City Council approve the citywide position allocation schedule reflecting the reclassification of twelve (12 allocations and the addition of five new positions. Staff is also requesting the addition of Custodian Supervisor, Environmental Utilities Maintenance Superintendent, Senior Electric Technology Systems Analyst and the deletion of Electric Technology Systems Supervisor on the Management A and B salary schedules. Staff is also recommending salary increases for Refuse Superintendent (6.58%, City Clerk (18%, and Assistant City Clerk (18%. In addition, it is requested that Council re-adopt Ordinance No. 6170 to approve the amended January 4, 2020 (Appendix G Management salary schedules A & B to correct an administrative error on the Deputy City Manager salary schedule. The total impact for the FY2019-20 General Fund budget is a \$98,107. The total impact to enterprise funds for FY2019-20 is \$184,843.

CC #: 0606

File #: 0600-01

CONTACT: Linda Hampton 916-774-5215 lhampton@roseville.ca.us

Human Resources Director Stacey Peterson made the presentation to Council.

No public comment received.

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to approve the allocation schedule and to re-adopt ORDINANCE NO. 6170 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6158, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX "G" TO BE EFFECTIVE JANUARY 4, 2020, AS AN URGENCY MEASURE; and to adopt ORDINANCE NO. 6189 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE 6170, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX "H" TO BE EFFECTIVE FEBRUARY 29, 2020 AS AN URGENCY MEASURE. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

8.2. 2019/2020 Tobacco Grant Award and Budget Adjustment

Memo from Administrative Analyst Shelly Bracco and Police Chief James Maccoun recommending the City Council adopt RESOLUTION NO. 20-043 ACCEPTING A GRANT AWARD FROM THE STATE OF CALIFORNIA, DEPARTMENT OF JUSTICE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE GRANT AWARD DOCUMENT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6188 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The City has been awarded \$612,381 in grant funding authorized under the California Healthcare, Research and Prevention Tobacco Tax Act of 2016. The funds will support the Police Department's Social Services Unit by adding a School Resource Officer to the middle schools.

CC #: 0602

File #: 0214 & 0323 & 0201-01

CONTACT: Shelly Bracco 916-774-5018 sbracco@roseville.ca.us

Police Sergeant Ryan Nottleson made the presentation to Council.

Police Officer Ann Marie Howland continued the presentation to Council.

Andre Garcia - Roseville High School - Spoke to concerns on vaping.

Matthew Aceves - Cooley Middle School - Spoke to widespread vaping.

Motion by Pauline Roccucci, seconded by Bruce Houdesheldt, to adopt RESOLUTION 20-043 ACCEPTING A GRANT AWARD FROM THE STATE OF CALIFORNIA, DEPARTMENT OF JUSTICE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE GRANT AWARD DOCUMENT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6188 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

9. **SPECIAL REQUESTS/REPORTS/PRESENTATION**

9.1. Flashing Pedestrian Warning Signs for the Downtown Area - Purchase Order

Memo from Assistant Engineer Jerome Pastor and Public Works Director Jason Shykowski recommending the City Council approve a purchase order in the amount of \$71,313 to procure flashing pedestrian warning sign systems from Traffic and Parking Control Co., Inc. The signs will be used for the Downtown Pedestrian Safety Connected Vehicle Pilot project. This is a capital improvement project and has been funded by the Transportation Fund and Traffic Mitigation Fund. No General Fund resources will be used for the project.

CC #: 0586

File #: 0321 & 0900-04

CONTACT: Jerome Pastor 916-746-1352 jpastor@roseville.ca.us

Public Works Director Jason Shykowski made the presentation to Council.

No public comment received.

Motion by Krista Bernasconi, seconded by Bruce Houdesheldt, to approve PURCHASE ORDER IN THE AMOUNT OF \$71,313 TO PROCURE FLASHING PEDESTRIAN WARNING SIGNS SYSTEMS FROM TRAFFIC AND PARKING CONTROL CO., INC.. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

10. PUBLIC HEARING

10.1. Sierra Vista Specific Plan JMC Parcels - General Plan Amendment, Specific Plan Amendment, and Development Agreement Amendments

Memo from Associate Planner Kinarik Shallow and Development Services Director Mike Isom recommending the City Council consider the 2nd Addendum to the Sierra Vista Specific Plan Environmental Impact Report; adopt RESOLUTION NO. 20-040 AMENDING THE GENERAL PLAN TO CHANGE THE LAND USE DESIGNATIONS ON CERTAIN REAL PROPERTY IN THE CITY OF ROSEVILLE AND TO CHANGE THE TEXT WITHIN THE LAND USE ELEMENT; and adopt RESOLUTION NO. 20-041 AMENDING THE SIERRA VISTA SPECIFIC PLAN; and introduce for first reading ORDINANCE ADOPTING A SECOND AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MOURIER INVESTMENTS, LLC ("WESTPARK FEDERICO") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and introduce for first reading ORDINANCE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("MOURIER & COMPUTER DEDUCTIONS") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and introduce for first reading

ORDINANCE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("MOURIER & BAGLEY" RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and introduce for first reading ORDINANCE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("MOURIER & WEALTH MANAGEMENT" RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The applicant requests approval of a General Plan Amendment, Specific Plan Amendment, and Development Agreement Amendments to allow for changes in land use and unit transfers within the Sierra Vista Specific Plan (SVSP) area. The resulting amendment would increase the acreage dedicated to Low Density Residential and reduce the acreage dedicated to Medium Density Residential. No overall change to the residential unit count within the plan area will occur. Four development agreements within the SVSP will be amended to reflect the changes in land use, acreages, and unit counts, to reallocate affordable housing units, and to modify fee deferrals. This action has no significant impact to the City's General Fund.

CC #: 0594

File #: 0400-04-12 & 0400-03 & 0400-04

CONTACT: Kinarik Shallow 916-746-1309 kshallow@roseville.ca.us

Mayor John B Allard II opened the Public Hearing.

Development Services Director Mike Isom made the presentation to Council.

Associate Planner Kinarik Shallow continued the presentation to Council.

Tim Taron - Spoke in support.

Mayor John B Allard II closed the Public Hearing.

Motion by Scott Alvord, seconded by Bruce Houdesheldt, to adopt the 2nd addendum to the Sierra Vista Specific Plan EIR and adopt RESOLUTION NO. 20-040 AMENDING THE GENERAL PLAN TO CHANGE THE LAND USE DESIGNATIONS IN CERTAIN REAL PROPERTY IN THE CITY OF ROSEVILLE AND TO CHANGE THE TEXT WITHIN THE LAND USE ELEMENT;; and adopt RESOLUTION NO. 20-041 AMENDING THE SIERRA VISTA SPECIFIC PLAN; and introduce for first reading ORDINANCE ADOPTING A SECOND AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MOURIER INVESTMENTS, LLC ("WESTPARK FEDERICO") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE;

and introduce for first reading ORDINANCE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("MOURIER & COMPUTER DEDUCTIONS") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and introduce for first reading ORDINANCE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("MOURIER & BAGLEY") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and introduce for first reading ORDINANCE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("MOURIER & WEALTH MANAGEMENT") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

10.2. Zoning Ordinance Update

Memo from Associate Planners Gina McColl and Charity Gold and Development Services Director Mike Isom recommending the City Council introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING CHAPTERS 19.04, 19.06, 19.08, 19.10, 19.12, 19.14, 19.16, 19.18, 19.22, 19.26, 19.42, 19.46, 19.50, 19.54, 19.58, 19.61, 19.62, 19.64, 19.68, 19.70, 19.72, 19.74, 19.76, 19.78, 19.80, 19.82, 19.84, AND 19.95 OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE REGARDING ZONING ORDINANCE UPDATES. The primary purpose of the amendments is to enhance the readability and clarity of the regulations and definitions. Specific additional regulations have been modified or enhanced to reflect necessary updates and resolve inconsistencies. The proposed Zoning Ordinance amendments are not expected to result in an impact to the General Fund.

CC #: 0598

File #: 0400-02 & 0800-06

CONTACT: Gina McColl 916-774-5452 gmccoll@roseville.ca.us

Mayor John B Allard II opened the Public Hearing

Development Services Director Mike Isom made the presentation to Council.

Associate Planner Gina McColl continued the presentation to Council.

No public comment received.

Mayor John B Allard II closed the Public Hearing.

Motion by Bruce Houdesheldt, seconded by Scott Alvord, to introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING CHAPTERS 19.04, 19.06, 19.08, 19.10, 19.12, 19.14, 19.16, 19.18, 19.22, 19.26, 19.42, 19.46, 19.50, 19.54, 19.58, 19.61, 19.62, 19.64, 19.68, 19.70, 19.72, 19.74, 19.76, 19.78, 19.80, 19.82, 19.84, AND 19.95 OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE REGARDING ORDINANCE UPDATES. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

11. DEPARTMENT UPDATE - City Clerk

City Clerk Sonia Orozco made the presentation to Council.

12. COUNCIL REPORTS / PUBLIC COMMENTS

No additional public comment received.

South Placer Waste Water Authority - Councilmember Pauline Roccucci and Councilmember Houdesheldt reported on attendance.

Regional Water Authority - Councilmember Bruce Houdesheldt reported on attendance. at strategic planning meeting.

Placer County Transportation Planning Agency - Councilmember Bruce Houdesheldt reported on meeting.

St. Baldrick's Cancer Fundraiser - Councilmember Bruce Houdesheldt announced February 29th event at Galleria Roseville.

Placer Valley Event Center Grand Opening - Councilmember Scott Alvord reported on February 13th event.

Police Memorial Unveiling - Councilmember Scott Alvord spoke on event and remarked on Police Officer Mark White who was killed in the line of duty.

Placer County Water Agency General Manager Einer Maisch Retirement - Councilmember Scott Alvord congratulated Einer on his retirement.

High School Students Opportunity to Interact with City Leaders - Vice Mayor Krista Bernasconi and Mayor John B. Allard II thanked students for attending the meeting.

13. ADJOURNMENT

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to adjourn the meeting at 7:46 p.m. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci



MINUTES

March 4, 2020

CITY COUNCIL MEETING

6:00 p.m.

Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us

1. CALL TO ORDER

Mayor John B Allard II called the meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Bernasconi, Alvord, Roccucci, Houdesheldt, Allard

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Councilmember Pauline Roccucci.

4. MEETING PROCEDURES

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PRESENTATIONS

5.1. Resolution - Michael Ziegler

Commend Michael Ziegler for his leadership, service, and dedication to the City of Roseville, and for building a strong legacy of service excellence to businesses and cities throughout the country while also providing hope and opportunity for all members of the communities PRIDE serves.

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

Mayor John B Allard II made the presentation to Zeek Ziegler, who responded.

6. PUBLIC COMMENTS

No public comment received.

7. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Motion by Pauline Roccucci, seconded by Krista Bernasconi, to approve Consent Calendar as recommended. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Bids / Purchases / Services

7.1. Sewer Collection System Cured-in-Place Pipe Rehabilitation Project - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Assistant Engineer Sen Saetern and Environmental Utilities Department Director Richard Plecker recommending the City Council approve the plans and specifications and authorization to advertise the 2020 Sewer Collection System Cured-in-Place Pipe Rehabilitation project and accept bids from prospective bidders. The cost of the project is estimated at \$2,929,000. Funding for the project will be provided by the Wastewater Rehabilitation Fund.

CC #: 0625

File #: 0900-02

CONTACT: Sen Saetern 916-774-5552 sysaetern@roseville.ca.us

7.2. Calsense Irrigation Controllers (RFQ 10-3247) – Purchase Order

Memo from Buyer Babette Owens and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council approve a purchase order to Imperial Sprinkler Supply, Inc. for the purchase of Calsense irrigation controllers. The cost of the controllers is \$99,665.11 plus tax of \$7,724.05, for a grand total of \$107,389.16. Funding is included in the General Equipment Replacement Fund FY2019-20 budget.

CC #: 0614

File #: 0203-10

CONTACT: Babette Owens 916-774-5704 bowens@roseville.ca.us

7.3. Enterprise Resource Planning System Health Assessment and Support Services Agreement - Contract Purchase Agreement Amendment

Memo from ERP Project Manager Nafees Coleman and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council

adopt RESOLUTION NO. 20-051 APPROVING CONTRACT PURCHASE AGREEMENT AMENDMENT 1 BETWEEN CITY OF ROSEVILLE AND EVERGE GROUP, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000179). Staff recommends approval of a Contract Purchase Agreement Amendment 1 with eVerge Group, LLC to conduct an assessment of the City's Enterprise Resource Planning (ERP) Human Resources and Payroll modules, and provide functional and technical consultant hours to assist the City with high priority system support. The total cost of the amended agreement is \$148,428. This amount includes the original scope which provided urgent year-end payroll support to the City's ERP support team, and new scope to include \$44,811 for the health assessment and \$80,280 for additional Human Capital Management and Financial ERP support services. Funding for the services is included in the ERP Project budget.

CC #: 0617

File #: 0800-05 & 0203-06

CONTACT: Nafees Coleman 916-774-5163 ncoleman@roseville.ca.us

7.4. Dry Creek Wastewater Treatment Plant Maintenance and Repair Services - Service Agreement

Memo from Process Engineer Todd Jordan and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-059 APPROVING A SERVICE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND VALLEY POWER SYSTEMS NORTH INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (\$2003105). Staff requests that the City Council approve a long-term service agreement with Valley Power Systems North, Inc. for routine scheduled maintenance services as well as unscheduled services and repairs of the cogeneration system constructed as part of the Dry Creek Wastewater Treatment Plant Cogeneration project. The total cost of the service agreement over the initial five years is \$850,000 and will be funded by resources in the Dry Creek Wastewater Treatment Plant budget in the Wastewater Operations Fund.

CC #: 0631

File #: 0203-09

CONTACT: Todd Jordan 916-746-1829 tjordan@roseville.ca.us

Resolutions

7.5. Marketing Management Services With South Placer County Tourism Corporation - Agreement Amendment

Memo from Accounting Supervisor Nick Rosas and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-052 APPROVING A SECOND AMENDMENT TO MARKETING MANAGEMENT AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND SOUTH PLACER COUNTY TOURISM CORPORATION DBA PLACER VALLEY TOURISM, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF

ROSEVILLE. Staff requests approval of the Second Amendment to Marketing Management Agreement with South Placer County Tourism Corporation dba Placer Valley Tourism. The amendment is to modify the term of the original agreement to be effective until the bonds issued in October 2017, for the indoor sports complex located @the Grounds, are completely paid off. The cost of the service is paid for by an assessment on hotel room stays within the Placer Valley Sports Complex and Tourism Marketing District. As such, there is no fiscal impact to the City.

CC #: 0619

File #: 0206-10-01

CONTACT: Nick Rosas 916-774-5314 nrosas@roseville.ca.us

7.6. Community Facilities District No. 4 (Public Services) - Resolution of Intention to Annex Territory

Memo from Administrative Analyst Jeannine Thrash and Assistant City Manager/Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-050 A RESOLUTION OF INTENTION TO ANNEX TERRITORY TO COMMUNITY FACILITIES DISTRICT AND TO AUTHORIZE THE LEVY OF SPECIAL TAXES THEREIN CITY OF ROSEVILLE Community Facilities District No. 4 (Public Services) Annexation No. 7 (The Villages at Kit Carson). On January 24, 2019 the Planning Commission approved a rezone and tentative subdivision map for The Villages at Kit Carson to create 21 single family residential parcels. Per a condition of approval of the Tentative Subdivision Map, the property owner agreed to annex into Community Facilities District (CFD) No. 4 (Public Services), for the purpose of covering the costs of the ongoing maintenance obligations. Parcels within this subdivision will be assigned the maximum tax rate associated with zone 13 of the Rate and Method of Apportionment. The annexation to CFD No. 4 (Public Services) will not impact the City's General Fund. The property owners will pay a special tax, sufficient to pay the costs of the CFD, that will be levied annually among the parcels of real property within the CFD.

CC #: 0616

File #: 0400-04-17-1

CONTACT: Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us

Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

7.7. Biological Monitoring Services - On-Call Professional Services Agreement

Memo from Parks, Recreation & Libraries Superintendent Brian Castelluccio and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 20-049 APPROVING AN ON-CALL PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND MADRONE ECOLOGICAL CONSULTING, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of a five-year contract with Madrone Ecological Consulting, LLC to perform on-call biological monitoring services, not to exceed \$375,000. The services can potentially be used by several City departments and the contract will be funded with approved fiscal year budget

funding by each department using the services.

CC #: 0613

File #: 0704-02

CONTACT: Brian Castelluccio 916-746-1755 bcastelluccio@roseville.ca.us

7.8. Westbrook - Phase 2 & 3 Sanitary Lift Sewer Station Project - Notice of Completion

Memo from Construction Inspector Andrew Druck and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-055 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS WESTBROOK-PHASE 2 & 3 SANITARY LIFT SEWER STATION PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 0624

File #: 0900-02

CONTACT: Andrew Druck 916-223-7577 adruck@roseville.ca.us

7.9. American River Water Supplies – Joint Defense and Cost-Sharing Agreement Amendment

Memo from Assistant Environmental Utilities Director Sean Bigley and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-048 APPROVING ADDENDUM NO. 4 TO AGREEMENT AMONG THE CITIES OF FOLSOM, ROSEVILLE, AND SACRAMENTO, PLACER COUNTY WATER AGENCY, SACRAMENTO COUNTY WATER AGENCY, SACRAMENTO SUBURBAN WATER DISTRICT, SAN JUAN WATER DISTRICT, EL DORADO IRRIGATION DISTRICT, AND CARMICHAEL WATER DISTRICT, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of a Joint Defense and Cost-Sharing Agreement (JDA), Addendum #4, to add Carmichael Water District to the JDA group to preserve and protect American River Water supplies. There is no additional cost to the City as part of adding Carmichael Water District to the JDA group and this will reduce future cost impacts by adding another paying agency into the JDA group to share costs.

CC #: 0632

File #: 0800-02

CONTACT: Sean Bigley 916-774-5513 sbigley@roseville.ca.us

7.10. Pleasant Grove Wastewater Treatment Plant Cogeneration/Energy Recovery Project - Professional Design Services Agreement Amendment

Memo from Senior Engineer Tracie Mueller and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-058 APPROVING A SECOND AMENDMENT TO PROFESSIONAL DESIGN SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND BROWN AND CALDWELL, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of the Second Amendment to Professional Design Services Agreement with Brown and Caldwell for detailed design and engineering services during construction for the Pleasant Grove Wastewater Treatment Plant Cogeneration/Energy Recovery project. The amendment increases the previous contract amount of \$2,745,799 by \$1,125,562, for a revised total contract cost of \$3,871,361. Funding for this work is provided under the capital improvement projects for the South Placer Wastewater Authority (SPWA) and will be jointly funded between Roseville and the other SPWA Regional Partners (Placer County and the South Placer Municipal Utility District).

CC #: 0628

File #: 0900-02-02-2

CONTACT: Tracie Mueller 916-774-5688 trmueller@roseville.ca.us

7.11. 2020 Water Quality and Landfill Gas Monitoring Services, Saugstad Park Waste Area Recreational Use Feasibility Study - Professional Services Agreement

Memo from Refuse and Stormwater Manager Devin Whittington and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-056 APPROVING A PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND JACOBS ENGINEERING GROUP, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends approval of a professional services agreement to Jacobs Engineering Group, Inc. for 2020 Water Quality and Landfill Gas Monitoring and Reporting Services as well as Saugstad Park Waste Area Recreational Use Feasibility Study and other Regulatory Required Technical Assistance. The professional services agreement requires multiple ground and surface water samplings and landfill gas emissions monitoring to ensure the levels of emissions do not pose a public health hazard. These services are needed to remain in compliance with state and federal requirements for closed landfills. The cost of \$317,614 is budgeted in FY2019-20 in the Solid Waste Operations Fund.

CC #: 0626

File #: 0800-02

CONTACT: Devin Whittington 916-774-5783 dwhittington@roseville.ca.us

7.12. Pleasant Grove Wastewater Treatment Plant Expansion Project - Professional Design Services Agreement Amendment

Memo from Senior Engineer Tracie Mueller and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-

053 APPROVING A FIRST AMENDMENT TO PROFESSIONAL DESIGN SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND KENNEDY/JENKS CONSULTANTS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of the first amendment to professional design services agreement with Kennedy/Jenks Consultants, Inc. for detailed design and engineering services during construction for the Pleasant Grove Wastewater Treatment Plant Expansion project. The amendment increases the previous contract amount of \$6,677,827 by \$2,968,111, for a revised total contract cost of \$9,645,938. Funding for this work is provided under the capital improvement projects for the South Placer Wastewater Authority (SPWA) and will be jointly funded between Roseville and the other SPWA Regional Partners (Placer County and the South Placer Municipal Utility District).

CC #: 0620

File #: 0800-02

CONTACT: Tracie Mueller 916-774-5688 trmueller@roseville.ca.us

Ordinances (for introduction and first reading)

7.13.Board and Commission Municipal Code Updates

Memo from City Clerk Technician Helen Dreyer and City Clerk Sonia Orozco recommending the City Council introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 2.16.020 OF CHAPTER 2.16 OF TITLE 2 OF THE ROSEVILLE MUNICIPAL CODE REGARDING MEMBERSHIP IN BOARDS AND COMMISSIONS. Staff requests approval of minor changes to the City's Municipal Code as it pertains to the City's boards and commissions and serving on committees, removing the requirement that a board or commission member must be registered to vote, amending the Senior Commission's responsibilities, and adding City Council Law & Regulation Committee and Local Sales Tax Citizen's Oversight Committee to the City Council/Boards and Commissions Administrative Standards. There is no fiscal impact associated with this request.

CC #: 0633

File #: 0103 & 0103-12-02

CONTACT: Helen Dreyer 916-774-5356 hdreyer@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

7.14.Roseville Employees Annual Charitable Hearts Campaign - Budget Adjustment

Memo from Alternative Transportation Administrative Technician Suzanne Engelke and Public Works Director Jason Shykowski recommending the City Council adopt ORDINANCE NO. 6191 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests approval of a budget adjustment to transfer funds from the Roseville Employees Annual Charitable Hearts fund (employee donations) to the City programs for which

they were pledged.

CC #: 0622

File #: 0216-02 & 0201-01

CONTACT: Suzanne Engelke 916-746-1320 sengelke@roseville.ca.us

7.15. Riego Road/Baseline Road Widening Project - Letter of Funding Agreement and Budget Adjustment

Memo from Administrative Assistant Lainie Anderson and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-054 APPROVING A FUNDING LETTER OF AGREEMENT, BETWEEN THE CITY OF ROSEVILLE AND THE PLACER COUNTY TRANSPORTATION PLANNING AGENCY, AND AUTHORIZING THE PUBLIC WORKS DIRECTOR TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6190 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff requests approval of a Funding Letter of Agreement for a not-to-exceed amount of \$50,000 and approval of a budget adjustment for \$50,000. Funds will come from the City/County Mitigation Fee Fund and no General Fund resources will be used for this reimbursement.

CC #: 0621

File #: 0900-04-02 & 0201-01

CONTACT: Lainie Anderson 916-746-1329 landerson@roseville.ca.us

7.16. Staffing and Salary Schedule Changes

Memo from Human Resources Manager Linda Hampton and Human Resources Director Stacey Peterson recommending the City Council adopt ORDINANCE NO. 6192 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6189, THE SALARY ORDINANCE FOR MANAGEMENT EMPLOYEES, AS AMENDED BY APPENDIX "I" TO BE EFFECTIVE MARCH 14, 2020, AS AN URGENCY MEASURE. Staff is recommending that Council approve the citywide position allocation schedule reflecting the reclassification of one position and the addition of two new positions. Staff is also requesting the addition of Assistant Finance Director and Construction Inspection Superintendent on the Management A and B salary schedules. The total impact to the General Fund for FY2019-20 is \$120,551, of which \$45,072 will be funded by a grant and the remainder funded by salary savings from vacant positions and the General Fund Contingency budget.

CC #: 0623

File #: 0600-01

CONTACT: Linda Hampton 916-774-5215 lhampton@roseville.ca.us

7.17. Data Analytics and Dashboard Pilot Study - Professional Services Agreement and Budget Adjustment

Memo from Process Engineer Todd Jordan and Environmental Utilities Director Rich Plecker recommending the City Council adopt RESOLUTION NO. 20-057 APPROVING A PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND BROWN AND CALDWELL, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6193 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff requests Council approval of a professional services agreement with Brown and Caldwell for pilot scale testing of advanced water purification technologies for the Pure Water Roseville project. The total cost of the agreement is \$1,102,700, and will be funded by the Pure Water Roseville project. Staff also requests that Council approve a budget adjustment to initiate the Pure Water Roseville project using \$715,000 of available resources in the Wastewater Rehabilitation Fund for FY2019-20 expenses. Additional project appropriations will be recommended in future year budgets to complete the project.

CC #: 0627

File #: 0800-02 & 0201-01

CONTACT: Todd Jordan 916-746-1829 tjordan@roseville.ca.us

Ordinances (for second reading and adoption)

7.18. Sierra Vista Specific Plan JMC Parcels - Development Agreements Amendments - Second Readings

ORDINANCE NO. 6194 ADOPTING A SECOND AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MOURIER INVESTMENTS, LLC ("WESTPARK FEDERICO") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6195 ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("MOURIER & COMPUTER DEDUCTIONS") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6196 ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("MOURIER & BAGLEY") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6197 ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("MOURIER & WEALTH MANAGEMENT") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE, for second reading and adoption.

CC #: 0629

File #: 0400-04-12

CONTACT: Kinarik Shallow 916-746-1300 kshallow@roseville.ca.us

7.19. Zoning Ordinance Update - Second Reading

ORDINANCE NO. 6198 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING CHAPTERS 19.04, 19.06, 19.08, 19.10, 19.12, 19.14, 19.16, 19.18, 19.22, 19.26, 19.42, 19.46, 19.50, 19.54, 19.58, 19.61, 19.62, 19.64, 19.68, 19.70, 19.72, 19.74, 19.76, 19.78, 19.80, 19.82, 19.84, AND 19.95 OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE REGARDING ZONING ORDINANCE UPDATES, for second reading and adoption.

CC #: 0630

File #: 0400-02

CONTACT: Gina McColl 916-774-5452 gmccoll@roseville.ca.us

Reports / Requests

7.20. Annual City of Roseville Interest Rate Swap Report for Fiscal Year 2018-19

Memo from Financial Analyst Teri Quinlan and Assistant City Manager/Chief Financial Officer Dennis Kauffman with an informational report on the performance of the City's outstanding interest rate swaps for the Electric Department system debt.

CC #: 0612

File #: 0202

CONTACT: Teri Quinlan 916-774-5479 tquinlan@roseville.ca.us

END OF CONSENT CALENDAR

8. SPECIAL REQUESTS/REPORTS/PRESENTATION

8.1. Maidu Soccer Complex Irrigation Renovation Project - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Park Development Analyst Joel De Jong and Parks, Recreation & Libraries Director Jill Geller recommending the City Council approve the plans and specifications for the Maidu Soccer Complex Irrigation Renovation project and authorize staff to call for bids. The facility is located on the 152-acre regional park site located east of Rocky Ridge Drive and south of Douglas Boulevard. The project includes renovations and upgrades to the existing irrigation system to provide better irrigation coverage and improved water efficiency, and will aide in reducing ongoing maintenance requirements. Improvements to the irrigation system are an essential component of a planned, concurrent turf renovation project under a separate contract. The architect's estimate for the irrigation portion of the project is \$235,000. Funding for the irrigation improvements was provided by a transfer of FY2018-19 General Fund resources to the Parks, Recreation &

Libraries Capital Fund for the Maidu soccer field. Maintenance of the existing citywide park is budgeted in the General Fund and will remain unchanged.

CC #: 0618

File #: 0704-01

CONTACT: Joel De Jong 916-774-5924 jdejong@roseville.ca.us

Parks, Recreation & Libraries Director Jill Geller made the presentation to Council.

No public comment received.

Motion by Bruce Houdesheldt, seconded by Krista Bernasconi, to approve plans and specifications for the Maidu Soccer Complex Irrigation Renovation project and authorize staff to call for bids. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

8.2. Census 2020: Getting an Accurate Count

Memo from Citywide Public Information Officer Brian Jacobson and Deputy City Manager Megan MacPherson with an overview of what's at stake financially, and in terms of congressional representation, and steps taken by the City and County to support the 2020 Census. The cost for advertising the Census on local buses and refuse trucks is approximately \$3,000 for materials and is split between Placer County and the City. The space on buses and refuse trucks is being provided at no cost. The Development Services Department was reimbursed \$75,000 by the State in FY2018-19 as part of the Local Update of Census Addresses program. CC #: 0615

File #: 0107

CONTACT: Brian Jacobson 916-774-5397 bjacobson@roseville.ca.us

Deputy City Manager Megan Macpherson made the presentation to Council.

GIS Analyst Scott Miller continued the presentation to Council.

Public Information Officer Brian Jacobson continued the presentation to Council.

Library Supervisor Rachael Prouse continued the presentation to Council.

Placer County Senior Planner Nikki Streegen continued the presentation to Council.

No public comment received.

Item for information only. No action required.

9. COUNCIL REPORTS / PUBLIC COMMENTS

Coronavirus Regional Status - City Manager Dom Casey made a presentation to the City Council and spoke to working relationship with Placer County and on importance of communication with residents.

Public Comment:

Shannon Chris - Spoke to traffic concerns on Old Coach Drive and requested a speed bump to mitigate speeding stating health and safety issues.

Councilmember Reports:

- Water Contract Signing Event

- Councilmember Pauline Roccucci reported on signing contract with Bureau of Reclamation for perpetual water supply for Roseville.

US Marshal Meeting - Councilmember Pauline Roccucci reported on meeting with first African American female US Marshal representing California Eastern District representing the Department of Justice.

Maidu Museum 10th Anniversary - Councilmember Pauline Roccucci reported on special event.

Roseville Host Lions Club - Councilmember Bruce Houdesheldt reported on attendance at crab and shrimp feed.

St. Baldricks Fundraiser - Mayor John Allard and Councilmember Bruce Houdesheldt reported on head shaving event to raise funds for childhood cancer.

Mosquito Problems - Councilmember Bruce Houdesheldt recommended residents call the Placer County Mosquito and Vector Control District to report problems.

Placer County Transportation Planning Agency Meeting - Councilmember Bruce Houdesheldt reported on attendance.

Junction Boulevard Signal Timing - Councilmember Bruce Houdesheldt spoke on providing information to resident.

Central Park Development - Councilmember Bruce Houdesheldt reported on groundbreaking.

Secret Ravine Clean Up - Councilmember Bruce Houdesheldt announced event.

10. ADJOURNMENT

Motion by Pauline Roccucci, seconded by Scott Alvord, to adjourn meeting at 7:06 p.m. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci



AGENDA
March 4, 2020

SPECIAL CITY COUNCIL MEETING
CLOSED SESSION
5:15 p.m.
Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us

A. CLOSED SESSION CALL TO ORDER

Mayor John B. Allard II called the Closed Session to order at 5:15 p.m.

B. CLOSED SESSION SILENT ROLL CALL

Present: Bernasconi, Alvord, Roccucci, Houdesheldt, Allard

C. CLOSED SESSION PUBLIC COMMENTS

No public comment received.

D. CLOSED SESSION

D.1. Conference with Legal Counsel - Initiation of Litigation

Pursuant to Government Code Section 54956.9(c) and (d)(4)

Initiation/intervention of litigation: Two cases

Pacific Coast Federation of Fisherman's Associations, et. al. v. Wilbur Ross, et al.

US District Court, Northern District of California; Case No. 19-7897

California Natural Resources Agency, et al. v. Wilbur Ross, et al.

US District Court, Northern District of California; Case No. 20-1299
CONTACT: Robert Schmitt 916-774-5325 rschmitt@roseville.ca.us

E. CLOSED SESSION ADJOURNMENT

Motion by Scott Alvord, seconded by Bruce Houdesheldt, to adjourn Closed Session at 5:50 p.m. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci



MINUTES

March 17, 2020

AMENDED AGENDA

SPECIAL MEETING NOTICE

EMERGENCY CITY COUNCIL MEETING

4:00 p.m.

Council Chambers
311 Vernon Street
Council Chambers
Roseville, California
and

via teleconference
Allard Residence

Phone Number 916-517-7778
www.roseville.ca.us

1. CALL TO ORDER

Vice Mayor Krista Bernasconi called the meeting to order at 4:00 p.m.

2. ROLL CALL

Present: Allard (via teleconference), Bernasconi, Alvord, Roccucci,

Houdesheldt Pledge of Allegiance was led by Tony Bernasconi.

3. PUBLIC COMMENTS

No public comment received.

4. RESOLUTIONS

4.1. New Business

Approving a Resolution proclaiming a local emergency and authorizing the Director of Emergency Services/City Manager to undertake emergency measures.

CONTACT: Robert Schmitt 916-774-5325 rschmitt@roseville.ca.us

City Manager Dominick Casey made the presentation to Council.

Deputy City Manager Megan MacPherson continued the presentation to Council.

Assistant City Manager Dion Louthan continued the presentation to Council.

Fire Chief Rick Bartee continued the presentation to Council.

City Manager Dominick Casey concluded the presentation to Council.

No public comment received.

City Attorney Robert Schmitt provided authorities prescribed the Director of Emergency/City Manager by the proclamation and outlined all city facilities will be closed to the public effective March 19, 2020.

Motion by Scott Alvord, seconded by Pauline Roccucci, to adopt RESOLUTION NO. 20-088 PROCLAIMING A LOCAL EMERGENCY AND AUTHORIZING THE DIRECTOR OF EMERGENCY SERVICES/CITY MANAGER TO UNDERTAKE EMERGENCY MEASURES ON BEHALF OF THE CITY OF ROSEVILLE with amended language regarding utilities. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

5. COUNCIL REPORTS / PUBLIC COMMENTS

Council consensus to move forward with the March 18, 2020 City Council meeting with social distancing.

6. ADJOURNMENT

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to adjourn the meeting at 5:30 p.m. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci



MINUTES

March 18, 2020

CITY COUNCIL MEETING

6:00 p.m.

Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us

1. CALL TO ORDER

Vice Mayor Krista Bernasconi called the March 18, 2020 City Council Meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Allard (via teleconference), Alvord, Bernasconi, Houdesheldt, Roccucci

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Police Officer Johnathan Yerzy.

4. MEETING PROCEDURES

City Clerk Sonia Orozco announced the procedures for addressing Council.

5. PUBLIC COMMENTS

Scott Bryditzki - Community Development Pastor, representing Destiny Church - Spoke on the COVID-19 response and programs offered at the church facility.

Keith Diederich - CEO of the Gathering Inn - Spoke on update and cooperation with the Placer County Health Department and the US Department of Health.

Charles Johnston - Spoke and inquired if the city had adopted any state or local policies on homeless sheltering in place and facilities for the homeless to sleep and be feed during the outbreak of the COVID-19 virus.

Muriel Moore - Spoke on school crossing guard status and requested the City Council pay the crossing guards who are now not working due to school closures.

5.1. City Response to COVID-19 Pandemic

CONTACT: Megan MacPherson 916-774-5455 mmacpherson@roseville.ca.us

City Manager Dominick Casey made the presentation to the City Council.

Muriel Moore - Spoke on the need for cities and counties to share information on COVID-19 virus and inform the public on data.

Item for information only. No action taken.

6. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to approve Consent Calendar as recommended. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Bids / Purchases / Services

6.1. Dodge Gearboxes (RFQ 10-3248) – Purchase Order

Memo from Buyer Babette Owens and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council approve a purchase order to Ruby Industrial Technologies LLC dba Kaman Industrial Technologies for the purchase of Dodge gearboxes. The cost for the equipment is \$86,087.88 plus tax of \$6,671.81, for a total of \$92,759.69. Funding is included in the Environmental Utilities Department's Wastewater Operations Fund FY2019-20 budget.

CC #: 0638

File #: 0203-09

CONTACT: Babette Owens 916-774-5704 bowens@roseville.ca.us

6.2. Performance Management Software - Sole Source Contract Purchase Agreement

Memo from Assistant Human Resources Director Hedy Dehgan and Human Resources Director Stacey Peterson recommending the City Council adopt RESOLUTION NO. 20-086 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND

CORNERSTONE ONDEMAND, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000218). Staff recommends Council approve a one-year sole source agreement with Cornerstone OnDemand for Performance Management software used to conduct performance evaluations for City staff. The annual fee of this contract is \$33,650, as budgeted in the FY2019-20 budget. Additionally, staff is requesting one additional one-year renewal for software maintenance, pending budget approval, not to exceed \$40,500, without going back to Council for approval.

CC #: 0665

File #: 0600

CONTACT: Hedy Dehghan 916-774-5205 hdehghan@roseville.ca.us

6.3. DatasplICE Mobile Facility Management - Contract Purchase Agreement

Memo from Acting Information Technology Program Manager Chris Hardy and Chief Information Officer Hong Sae recommending the City Council adopt RESOLUTION NO. 20-085 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND DATASPLICE LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000209). This agreement will expand the capabilities of the City's current asset management system to field and mobile devices for the Solid Waste Division. Total costs for FY2019-20 will not exceed \$47,222.50. Funding is included in the Environmental Utilities Department budget.

CC #: 0663

File #: 0203-06

CONTACT: Chris Hardy 916-774-5122 chardy@roseville.ca.us

6.4. Electronic Document Review - Contract Purchase Agreement

Memo from Information Technology Program Manager Jesse Ravera and Chief Information Officer Hong Sae recommending the City Council adopt RESOLUTION NO. 20-083 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND TRUEPOINT SOLUTIONS LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000230). Total costs for FY2019-20 will not exceed \$92,610. Funding is included in the Development Services Technology fund. Additionally, staff is requesting four one-year renewals for annual software maintenance without going back to City Council for approval, pending approved budgets each year, or until staff determines the use of the software is not in the best interest of the City. There is no impact to the General Fund.

CC #: 0661

File #: 0203-06

CONTACT: Jesse Ravera 916-774-5125 jravera@roseville.ca.us

Resolutions

6.5. Materials Testing Services - On-Call Professional Services Agreements Amendments

Memo from Administrative Technician Tricia Cheshire and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-067 APPROVING A FIRST AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND BLACKBURN CONSULTING AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 20-068 APPROVING A FIRST AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND ENGEO AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of a first amendment to on-call professional services agreements with Blackburn Consulting and ENGEO, Inc. to increase the respective not-to-exceed contract amounts for materials testing for various development projects. The increase would add \$600,000 to each agreement per year for the remaining term of the agreement for a total not-to-exceed limit of \$1.2 million per year. The current agreement has an initial term of two years, expiring in May 2021, with an optional one-year renewal. The total cost of both contracts for the two year initial term is \$4.8 million. The costs associated with these services are passed through to various development projects and have no impact to the General Fund.

CC #: 0646

File #: 0800-06

CONTACT: Tricia Cheshire 916-774-5280 tcheshire@roseville.ca.us

6.6. Westbrook - Phase 3 Santucci Boulevard & Pleasant Grove Boulevard - Notice of Completion

Memo from Construction Inspector Andrew Druck and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-072 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS WESTBROOK PHASE 3 SANTUCCI BOULEVARD & PLEASANT GROVE BOULEVARD PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 0651

File #: 0400-04-12-1

CONTACT: Andrew Druck 916-223-7577 adruck@roseville.ca.us

6.7. Westbrook Phase 3 - Santucci Boulevard Segments 1 & 2 - Notice of Completion

Memo from Construction Inspector Andrew Druck and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-071 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS WESTBROOK PHASE 3 - SANTUCCI BOULEVARD SEGMENTS 1 & 2 PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 0650

File #: 0400-04-12-1

CONTACT: Andrew Druck 916-223-7577 adruck@roseville.ca.us

6.8. Westbrook-Phase 3-Solaire Drive Segment 4 & Santucci Boulevard-Segment 3 - Notice of Completion

Memo from Construction Inspector Andrew Druck and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-073 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS WESTBROOK-PHASE 3- SOLAIRE DRIVE SEGMENT 4 & SANTUCCI BOULEVARD-SEGMENT 3 PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 0652

File #: 0400-04-12-1

CONTACT: Andrew Druck 916-223-7577 adruck@roseville.ca.us

6.9. Sierra Vista Specific Plan - Accepting Portions of Irrevocable Offers of Dedication of Easements

Memo from Assistant Engineer Kerry Andrews and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-070 ACCEPTING PORTIONS OF IRREVOCABLE OFFERS OF DEDICATION OF EASEMENTS. This item requests Council approval to record a Certificate of Acceptance for irrevocable offers of dedication for easements. The actions requested will have no fiscal impact to the General Fund.

CC #: 0648

File #: 0400-04

CONTACT: Kerry Andrews 916-774-5346 kandrews@roseville.ca.us

6.10. Local Road Safety Plan - Program Supplement Agreement

Memo from Senior Engineer Jana Cervantes and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-078 AUTHORIZATION FOR THE EXECUTION OF PROGRAM SUPPLEMENTS FOR STATE-FUNDED TRANSIT PROJECTS. The Program Supplemental Agreement T86 to California Department of Transportation Master Agreement No. 00193S allows for the receiving of State funding for a Local Road Safety Plan (LRSP), and authorize the City Manager or his designee to execute all future project specific Program Supplemental Agreements to Caltrans Master Agreement No. 00193S for various state-funded transportation projects. The Master Agreement was approved with prior council action. The LRSP is funded by state grant funding and Gas Tax funds. No General Fund resources will be used.

CC #: 0658

File #: 0800-04

CONTACT: Jana Cervantes 916-774-5498 jcervantes@roseville.ca.us

6.11. 2019 Residential Resurfacing Project - Notice of Completion

Memo from Assistant Engineer Daniel Lierly and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-061 ACCEPTING THE PUBLIC WORK KNOWN AS THE 2019 RESIDENTIAL RESURFACING PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PUBLIC WORKS DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. The project resurfaced approximately 232,000 square yards of City streets within Woodcreek Oaks, Woodcreek Oaks and Foothills Junction, and Maidu neighborhoods. The final construction cost was \$2,369,997 and was fully funded with Highway User Tax funds and Road Maintenance and Rehabilitation funds. No General Fund resources were used for this project.

CC #: 0636

File #: 0900-04-01

CONTACT: Daniel Lierly 916-746-1300 delierly@roseville.ca.us

6.12. Foothills Boulevard and Roseville Parkway Project - Notice of Completion

Memo from Construction Inspector Darin Crockett and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-064 OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS FOOTHILLS BOULEVARD AND ROSEVILLE PARKWAY PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. This

action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 0640

File #: 0900-10

CONTACT: Darin Crockett 916 746-1324 dcrockett@roseville.ca.us

6.13.Foothills Boulevard and Roseville Parkway Widening Project - Reimbursement Agreement

Memo from Associate Engineer David Samuelson and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-065 APPROVING A CITY/DEVELOPER REIMBURSEMENT AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CLEARVIEW 8035 FOOTHILLS BLVD., LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests the approval and execution of a reimbursement agreement between the City and Clearview 8035 Foothills Blvd., LLC for the construction of public improvements beyond the developer's responsibilities. This item will have no impact to the City's General Fund. The reimbursement of \$106,198.61 is funded through the City's Traffic Mitigation fund and specifically from the Developer Reimbursement account.

CC #: 0641

File #: 1008 & 0900-04-02

CONTACT: David Samuelson 916-774-5442 dsamuelson@roseville.ca.us

6.14.Fiscal Year 2019-20 Transportation Development Act Claim

Memo from Financial Analyst Elizabeth Haydu and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-077 APPROVING AND AUTHORIZING EXECUTION OF THE 2019-20 TRANSPORTATION DEVELOPMENT ACT CLAIMS TO THE PLACER COUNTY TRANSPORTATION PLANNING AGENCY which authorizes the City Manager or his designee to sign and submit the annual Transportation Development Act Claim for FY2019-20 to the Placer County Transportation Planning Agency in an amount not to exceed \$10,489,290. Transportation Development Act monies must first be used for transit needs that are reasonable to meet. Remaining funds are eligible for use on other transportation projects and programs.

CC #: 0657

File #: 0721

CONTACT: Elizabeth Haydu 916-746-1302 ehaydu@roseville.ca.us

6.15.Legal Services Agreement

Memo from Paralegal Gretchen Hakala and City Attorney Robert Schmitt recommending the City Council adopt RESOLUTION NO. 20-084 APPROVING AN AGREEMENT FOR LEGAL SERVICES, BY AND BETWEEN THE CITY OF ROSEVILLE AND LEVENFELD WINTER LLP, AND AUTHORIZING THE

CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The City requires outside legal services from time to time to advise, assist, and represent the City as co-counsel with the City Attorney with respect to litigation, and to assist the City with respect to transaction matters. Levenfeld Winter LLP will assist the Human Resources Department with impartial workplace investigations on an as-needed basis.

CC #: 0662

File #: 0500-01

CONTACT: Gretchen Hakala 916-774-5325 ghakala@roseville.ca.us

6.16. Bond Trustee Services - Professional Services Agreement Amendment

Memo from Financial Analyst Jacquie Clarizio and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-062 APPROVING A FOURTH AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This contract amendment has an estimated cost of \$75,000, bringing the total not-to-exceed contract amount to \$375,000. The annual fee of approximately \$1,800 per series is charged for each outstanding bond series. Payment for these services will be paid by the Environmental Utilities Department, the Electric Department, and community facilities districts. There is no impact to the City's General Fund.

CC #: 0637

File #: 0200

CONTACT: Jacquie Clarizio 916-774-5323 jclarizio@roseville.ca.us

6.17. Placer Valley Tourism - Annual Budget and Strategic Work Plan

Memo from Administrative Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION 20-069 APPROVING THE 2020 PLACER VALLEY TOURISM STRATEGIC MARKETING PLAN AND BUDGET. On November 5, 2014, the City entered into a Marketing Management Agreement with Placer Valley Tourism (PVT) which authorizes PVT to administer and implement all of the activities and improvements of the Placer Valley Sports Complex and Tourism Marketing District (District). Expenditure of assessments received from the District are directed by the PVT Board, which is comprised of hotel, Chamber and City representatives from Roseville, Rocklin and Lincoln. The PVT budget and strategic marketing plan are required to undergo an annual review and approval by the City Council.

CC #: 0647

File #: 0110-01

CONTACT: Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us
Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

6.18. Golf Maintenance Services Agreement Amendment

Memo from Parks, Recreation & Libraries Superintendent Rob Nakamura and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 20-066 APPROVING A SECOND AMENDMENT TO GOLF MAINTENANCE SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND BRIGHTVIEW GOLF MAINTENANCE, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The requested amendment will increase the agreement to \$1,495,298 to be effective March 1, 2020. The financial impact for the remainder of the agreement's term is \$18,415 and is funded within the Golf Course Operations fund. The agreement expires on December 31, 2020.

CC #: 0649

File #: 0702

CONTACT: Rob Nakamura 916-774-5135 makamura@roseville.ca.us

6.19. Downtown Roseville Property and Business Improvement District Management Agreement

Memo from Economic Development Manager Wayne Wiley and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 20-063 APPROVING AN AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND THE DOWNTOWN ROSEVILLE PARTNERSHIP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The management agreement is proposed in accordance with the 10 year renewal of the Downtown Roseville Property and Business Improvement District approved on January 9, 2019.

CC #: 0639

File #: 0206-10-01

CONTACT: Wayne Wiley 916-774-5283 wwiley@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

6.20. Dry Creek Greenway East Phase 1 Trail Project - Professional Design Services Agreement and Budget Adjustment

Memo from Assistant Engineer Cathy Gosalvez and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-074 APPROVING A PROFESSIONAL DESIGN SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND PSOMAS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6201 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This is an agreement with Psomas, Inc. for professional design engineering and environmental permitting services for the Dry Creek Greenway East Phase 1 trail project. The project will construct a paved multi-use trail along Dry, Cirby, and Linda Creeks from Darling Way/Riverside

Avenue to the existing Maidu Park Trail at Rocky Ridge Drive. The total contract amount is \$2,371,738. The total budget adjustment request is for \$485,000 which will cover staff time in addition to the Psomas contract. This project is funded with Congestion Mitigation and Air Quality funds and Local Transportation funds and will not utilize any General Fund resources.

CC #: 0654

File #: 0721-05 & 0201-01

CONTACT: Cathy Gosalvez 916-746-1300 cgosalvez@roseville.ca.us

6.21. Harry Crabb Park Phase 2 Project - Budget Adjustment

Memo from Park Development Analyst Joel De Jong and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt ORDINANCE NO. 6200 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FY2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Harry Crabb Park Phase 2 Project is an 18.8 acre park site located on Scarborough Drive and Secret Ravine Parkway in the Stoneridge Specific Plan. City Council approved the contract award for construction of the Phase 2 project at the July 10, 2019 meeting and authorized staff to approve change order requests in an amount not to exceed 10% of the contract amount. The proposed budget adjustment in the amount of \$150,000 simply funds the full 10% contingency and will be allocated from the Citywide Park Fund to the Harry Crabb Park Phase 2 project. There will be no new General Fund impact.

CC #: 0645

File #: 0201-01 & 0704-01

CONTACT: Joel De Jong 916-774-5924 jdejong@roseville.ca.us

Ordinances (for second reading and adoption)

6.22. Board and Commission Municipal Code Updates - Second Reading

ORDINANCE NO. 6199 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 2.16.020 OF CHAPTER 2.16 OF TITLE 2 OF THE ROSEVILLE MUNICIPAL CODE REGARDING MEMBERSHIP IN BOARDS AND COMMISSIONS, for second reading and adoption.

CC #: 0653

File #: 0103 & 0103-12-02

CONTACT: Helen Dreyer 916-774-5356 hdreyer@roseville.ca.us

Reports / Requests

6.23. 2019 Housing Element Annual Progress Report

Memo from Housing Manager Trisha Isom and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 20-060 APPROVING HOUSING ELEMENT ANNUAL PROGRESS REPORT

(CALENDAR YEAR 2019). Staff is providing the City Council an annual informational report on the status of the Housing Element of the General Plan and progress in its implementation, as required by the State of California. There is no impact to the City's General Fund.

CC #: 0635

File #: 0709-01

CONTACT: Trisha Isom 916-746-1239 tisom@roseville.ca.us

6.24. Out of State Travel Request - Environmental Utilities Department

Memo from Wastewater Collection Superintendent Chris Bracco and Environmental Utilities Director Richard Plecker recommending the City Council approve out of state travel for two Environmental Utilities Department staff members to attend the North American Society for Trenchless Technology Conference in Denver, Colorado in April, 2020. Costs to attend the conference are \$3,300 and funding is included in the Wastewater Operations fund.

CC #: 0644

File #: 0600-02

CONTACT: Chris Bracco 916-746-1892 cbracco@roseville.ca.us

END OF CONSENT CALENDAR

7. RESOLUTIONS

7.1. Budget Development Policy and Amended Investment Policy

Memo from Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-075 ADOPTING THE BUDGET DEVELOPMENT POLICY AND THE REVISED INVESTMENT POLICY. The purpose of these policies is to determine appropriate and responsible financial guidelines for staff to follow when developing the budget, making recommendations and fulfilling their role as fiscal stewards of public funds. Approval of the policies has no fiscal impact, however, implementation of the policies is expected to improve the fiscal position and financial health of the City.

CC #: 0655

File #: 0200

CONTACT: Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Assistant City Manager/Chief Financial Officer Dennis Kauffman made the presentation to City Council.

No public comment received.

Motion by Scott Alvord, seconded by Bruce Houdesheldt, to adopt RESOLUTION NO. 20-075 ADOPTING THE BUDGET DEVELOPMENT POLICY AND THE REVISED INVESTMENT POLICY. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

7.2. The Ranch at Sierra Vista Community Facilities District No. 1, Series 2020 Bond Issuance

Memo from Administrative Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-076 AUTHORIZING THE ISSUANCE OF SPECIAL TAX BONDS FOR AND ON BEHALF OF THE CITY OF ROSEVILLE THE RANCH AT SIERRA VISTA COMMUNITY FACILITIES DISTRICT NO. 1 (PUBLIC FACILITIES), APPROVING AND DIRECTING THE EXECUTION OF A FISCAL AGENT AGREEMENT, BOND PURCHASE AGREEMENT AND ACQUISITION AGREEMENT, APPROVING THE FORM OF PRELIMINARY OFFICIAL STATEMENT, APPROVING SALE OF SUCH BONDS, AND APPROVING OTHER RELATED DOCUMENTS AND ACTIONS. The series 2020 Bonds aggregate principal amount will not exceed \$22,000,000. The 2020 Bonds are being issued for the District to construct and acquire certain public facilities of benefit to the District, provide for a deposit to a debt service reserve account for the 2020 Bonds, provide capitalized interest for debt service due on the 2020 bonds through September 1, 2020, and pay costs of issuance of the 2020 Bonds. The 2020 Bonds represent the first series of special tax bonds to be issued for the District. The issuance of additional parity bonds in the future is contemplated. The CFD will generate special taxes that will be paid by the property owners sufficient to pay the costs of the debt service, CFD administration, and any authorized pay-as-you-go facilities, as well as provide funding in the future for maintenance/replacement of constructed facilities. The issuance of these bonds will not impact the City's General Fund.

CC #: 0656

File #: 0206-03-01

CONTACT: Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us

Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Assistant City Manager/Chief Financial Officer Dennis Kauffman made the presentation to Council.

No public comment received.

Motion by Bruce Houdesheldt, seconded by Pauline Roccucci, to adopt RESOLUTION NO. 20-076 AUTHORIZING THE ISSUANCE OF SPECIAL TAX BONDS FOR AND ON BEHALF OF THE CITY OF ROSEVILLE AND THE RANCH AT SIERRA VISTA COMMUNITY FACILITIES DISTRICT NO. 1 (PUBLIC FACILITIES), APPROVING AND

DIRECTING THE EXECUTION OF A FISCAL AGENT AGREEMENT, BOND PURCHASE AGREEMENT AND ACQUISITION AGREEMENT, APPROVING THE FORM OF PRELIMINARY OFFICIAL STATEMENT, APPROVING SALE OF SUCH BONDS, AND APPROVING OTHER RELATED DOCUMENTS AND ACTIONS. The Motion .

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

8. SPECIAL REQUESTS/REPORTS/PRESENTATION

8.1. Tobacco Use Among Placer County Youth

Placer County Heath & Human Services representatives from the Tobacco Prevention Program will present an overview of tobacco use among Placer County youth along with possible strategies to reduce its prevalence.

CC #: 0664

File #: 0102-11

CONTACT: Megan MacPherson 916-774-5455 mmacpherson@roseville.ca.us

Item 8.1 Tobacco Use Among Placer County Youth dropped from the agenda.

8.2. Local Sales Tax Citizens' Oversight Committee Report to the City Council

Memo from Assistant City Manager/Chief Financial Officer Dennis Kauffman with an informational report from the Local Sales Tax Citizens' Oversight Committee.

CC #: 0642

File #: 0103-22

CONTACT: Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Assistant City Manager/Chief Financial Officer Dennis Kauffman made the presentation to the City Council

No public comment received.

Item for information only. No action taken.

9. PUBLIC HEARING

9.1. West Roseville Specific Plan Parcels F-71 and F-66 General Plan Amendment, Specific Plan Amendment, Rezone, and Development Agreement Amendments

Memo from Associate Planner Charity Gold and Development Services Director Mike Isom recommending City Council Consider the Addendum to the West Roseville Specific Plan EIR; adopt RESOLUTION NO. 20-081 AMENDING THE GENERAL PLAN TO CHANGE THE LAND USE DESIGNATION ON CERTAIN REAL PROPERTY IN THE CITY OF ROSEVILLE; and

adopt RESOLUTION NO. 20-082 AMENDING THE WEST ROSEVILLE SPECIFIC PLAN; and adopt two (2) findings of fact and introduce for the first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE NO. 6198 OF THE CITY OF ROSEVILLE CHANGING THE ZONING OF CERTAIN REAL PROPERTY LOCATED WITHIN THE CITY OF ROSEVILLE; consider five (5) findings of fact and introduce for the first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING AN EIGHTH AMENDMENT OF DEVELOPMENT AGREEMENT BY AND AMONG THE CITY OF ROSEVILLE AND ATC REALTY ONE, LLC AND ROSEVILLE SCHOOLS, LLC RELATIVE TO THE WEST ROSEVILLE SPECIFIC PLAN; and consider five (5) findings of fact and introduce for the first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A NINTH AMENDMENT OF DEVELOPMENT AGREEMENT BY AND AMONG THE CITY OF ROSEVILLE AND JEN CALIFORNIA 15 LLC, TAYLOR MORRISON OF CALIFORNIA, LLC, AND WEST ROSEVILLE DEVELOPMENT COMPANY, INC. RELATIVE TO THE WEST ROSEVILLE SPECIFIC PLAN. The applicant requests approval of a General Plan Amendment, Specific Plan Amendment, Rezone, Eighth Development Agreement Amendment to the Fiddymment Land Venture Development Agreement, and the Ninth Development Agreement Amendment to the Fiddymment Land Venture Development Agreement. The project would allow one 0.296 acre site (F-66) to be developed with a single family residence in lieu of a potable water well, move a planned elementary school site (F-71) from Phase 3 to Phase 2, and extend the term of the Fiddymment Land Venture Development Agreement to March 29, 2054.

CC #: 0660

File #: 0400-04-09 & 0400-06 & 0400-03 & 0400-02

CONTACT: Charity Gold 916-774-5247 cgold@roseville.ca.us

Vice Mayor Krista Bernasconi opened the Public Hearing.

Development Services Director Mike Isom made the presentation to Council

Steve Hicks - Vice President of Land Development for Signature Homes - Spoke in support of approval.

Vice Mayor Krista Bernasconi closed the Public Hearing.

Motion by Bruce Houdesheldt, seconded by Scott Alvord, to adopt RESOLUTION NO. 20-081 AMENDING THE GENERAL PLAN TO CHANGE THE LAND USE DESIGNATION ON CERTAIN REAL PROPERTY IN THE CITY OF ROSEVILLE; and to Consider the Addendum to the West Roseville Specific Plan EIR; adopt RESOLUTION NO. 20-082 AMENDING THE WEST ROSEVILLE SPECIFIC PLAN; and adopt two (2) findings of fact and introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE NO. 6198 OF THE CITY OF ROSEVILLE CHANGING THE ZONING OF CERTAIN REAL PROPERTY LOCATED WITHIN THE CITY OF ROSEVILLE; and consider five (5) findings

of fact and introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING AN EIGHTH AMENDMENT OF DEVELOPMENT AGREEMENT BY AND AMONG THE CITY OF ROSEVILLE AND ATC REALTY ONE, LLC AND ROSEVILLE SCHOOLS, LLC RELATIVE TO THE WEST ROSEVILLE SPECIFIC PLAN; and consider five (5) findings of fact and introduce for the first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A NINTH AMENDMENT OF DEVELOPMENT AGREEMENT BY AND AMONG THE CITY OF ROSEVILLE AND JEN CALIFORNIA 15 LLC, TAYLOR MORRISON OF CALIFORNIA, LLC, AND WEST ROSEVILLE DEVELOPMENT COMPANY, INC. RELATIVE TO THE WEST ROSEVILLE SPECIFIC PLAN. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

9.2. Amoruso Ranch General Plan Amendment, Specific Plan Amendment, Rezone, and Development Agreement Amendments

Memo from Associate Planner Gina McColl and Development Services Director Mike Isom recommending the City Council consider the Addendum to the Amoruso Ranch Specific Plan Environmental Impact Report and amended Mitigation Monitoring and Reporting Program; adopt RESOLUTION NO. 20-079 AMENDING THE GENERAL PLAN TO CHANGE THE LAND USE DESIGNATIONS ON CERTAIN REAL PROPERTY IN THE CITY OF ROSEVILLE; adopt RESOLUTION NO. 20-080 AMENDING THE AMORUSO RANCH SPECIFIC PLAN; introduce for first reading an ORDINANCE OF THE CITY COUNCIL OF ROSEVILLE AMENDING ZONING ORDINANCE NO. 5428 OF THE CITY OF ROSEVILLE CHANGING THE ZONING OF CERTAIN REAL PROPERTY LOCATED WITHIN THE CITY OF ROSEVILLE; consider the five (5) findings of fact and introduce for first reading an ORDINANCE ADOPTING THE FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, BROOKFIELD SUNSET, LLC, AND JENNIFER M. AMORUSO, SUCCESSOR TRUSTEE OF THE AMORUSO FAMILY LIVING TRUST DATED MARCH 14, 2005 RELATIVE TO THE AMORUSO RANCH SPECIFIC PLAN (525.7 acres) AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and consider the five (5) findings of fact and introduce for first reading an ORDINANCE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, BROOKFIELD SUNSET, LLC, AND JENNIFER M. AMORUSO, SUCCESSOR TRUSTEE OF THE AMORUSO FAMILY LIVING TRUST DATED MARCH 14, 2005 RELATIVE TO THE AMORUSO RANCH SPECIFIC PLAN (148.7 acres) AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The applicant requests approval of a General Plan Amendment, Specific Plan Amendment, Rezone, and two Development Agreement Amendments to make changes to the Amoruso Ranch Specific Plan to include additional avoidance of wetland features by increasing the land designated as Open Space by 10 acres and reducing the land designated for Low Density Residential (LDR) by 10 acres, resulting in a loss of 50 LDR units. The units will be accommodated in an existing Community

Commercial – Village Center parcel. Other amendments include the removal of 60kV electrical line, minor modifications to the configuration of Public/Quasi Public parcels, and modifications regarding obligations for the potential municipal well site. This action has no significant impact to the City's General Fund.

CC #: 0659

File #: 0400-04-15 & 0400-04-15-2 & 0400-02

CONTACT: Gina McColl 916-774-5452 gmccoll@roseville.ca.us

Vice Mayor Krista Bernasconi opened the Public Hearing.

Development Services Director Mike Isom made the presentation to Council

Marcus LoDuca - representing applicant - Spoke in support of approval.

Vice Mayor Krista Bernasconi closed the Public Hearing.

Motion by Scott Alvord, seconded by Pauline Roccucci, to adopt RESOLUTION NO. 20-079 AMENDING THE GENERAL PLAN TO CHANGE THE LAND USE DESIGNATIONS ON CERTAIN REAL PROPERTY IN THE CITY OF ROSEVILLE; and to Consider the Addendum and revised MMRP to the Amoruso Ranch Specific Plan EIR; and adopt RESOLUTION NO. 20-080 AMENDING AND APPROVING TEXT AND LAND USE MAP AMENDMENTS TO THE AMORUSO RANCH SPECIFIC PLAN; and introduce for first reading an ORDINANCE OF THE CITY COUNCIL OF ROSEVILLE AMENDING ZONING ORDINANCE NO. 5428 OF THE CITY OF ROSEVILLE CHANGING THE ZONING OF CERTAIN REAL PROPERTY LOCATED WITHIN THE CITY OF ROSEVILLE; and consider the five (5) findings of fact and introduce for first reading an ORDINANCE ADOPTING THE FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, BROOKFIELD SUNSET, LLC, AND JENNIFER M. AMORUSO, SUCCESSOR TRUSTEE OF THE AMORUSO FAMILY LIVING TRUST DATED MARCH 14, 2005 RELATIVE TO THE AMORUSO RANCH SPECIFIC PLAN (525.7 acres) AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and to consider the five (5) findings of fact and introduce for first reading an ORDINANCE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, BROOKFIELD SUNSET, LLC, AND JENNIFER M. AMORUSO, SUCCESSOR TRUSTEE OF THE AMORUSO FAMILY LIVING TRUST DATED MARCH 14, 2005 RELATIVE TO THE AMORUSO RANCH SPECIFIC PLAN (148.7 acres) AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE.. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

10. DEPARTMENT UPDATE - Economic Development

Economic Development Director Laura Matteoli made the presentation to Council.

11. COUNCIL REPORTS / PUBLIC COMMENTS

Public Comment:

Keith Diederich - CEO of the Gathering Inn - Spoke in appreciation of staff and on *Build for Zero* program.

Paul Frank - owner of Big Spoon Yogurt - Inquired on SBA loans and in support of deferring payment of utilities for small businesses, requested legislative support on business insurance not covering COVID-19 and on the benefits of teleworking reducing traffic and air pollution.

Council Reports:

Community Resources - Councilmember Pauline Roccucci thanked residents for offering assistance during the COVID-19 pandemic.

Banking Industry - Councilmember Pauline Roccucci spoke on visiting bank location and thanked staff for providing essential service.

Agriculture and Regional Water Quality Control Board - Councilmember Bruce Houdesheldt spoke on delay of Safe Drinking Water program.

South Placer Waste Water Authority - Councilmember Bruce Houdesheldt spoke on municipal bond program upheaval.

Thanked Staff - Councilmember Bruce Houdesheldt offered gratitude for responsiveness of staff.

Social Isolation - Councilmember Bruce Houdesheldt encouraged residents to heed shelter in place order but to check on residents who may be suffering from isolation or sickness.

Encourage Landlord Reprieve on Rents - Councilmember Scott Alvord recommended.

Mental Health - Councilmember Scott Alvord spoke on issue of mental health related to closing businesses and anxiety of residents over COVID-19 virus.

COVID-19 Assistance/Roseville Volunteer Force - Councilmember Scott Alvord spoke on group working to provide assistance to venerable community residents.

Thanks to First Responders - Vice Mayor Bernasconi offered gratitude to members of the Roseville Police Department, Roseville Fire Department and AMR ambulance service.

Thanks to Roseville Teachers - Vice Mayor Bernasconi thanked teachers who are working tirelessly to implement electronic classroom assignments.

Give Grace - Vice Mayor Krista Bernasconi spoke on finding the positives in light of the multi-tasking of priorities and recommended residents to take care of themselves.

March Birthdays - Vice Mayor Krista Bernasconi acknowledged birthdays of Mayor John Allard, City Manager Dominick Casey and City Attorney Robert Schmitt.

12. ADJOURNMENT

Vice Mayor Krista Bernasconi adjourned the meeting at 8:05 p.m.



AGENDA

March 18, 2020

CANCELLED

SPECIAL MEETING CITY COUNCIL CLOSED SESSION

2:30 p.m.

Hutchison Conference Room

311 Vernon Street

Roseville, California

www.roseville.ca.us

A. CLOSED SESSION CALL TO ORDER

B. CLOSED SESSION SILENT ROLL CALL

C. CLOSED SESSION PUBLIC COMMENTS

D. CLOSED SESSION

D.1. 2:30 p.m.

Public Employee Performance Evaluation and Conference with Designated Representative

A. Pursuant to Government Code Section 54957(b)(1):

Performance evaluation of the City Manager and the City Attorney

B. Pursuant to Government Code Section 54957.6(a)

Conference with designated representative: Mary Egan

Compensation/fringe benefits of unrepresented employees

CONTACT: Contact: Stacey Peterson 916-774-5374 slpeterson@roseville.ca.us

E. CLOSED SESSION ADJOURNMENT



MINUTES

April 1, 2020

CITY COUNCIL MEETING

6:00 p.m.

Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us

Councilmembers may teleconference pursuant to Executive Order N-29-20. Members of the public may view the meeting on Comcast channel 14, Consolidated Communications channel 73 and AT&T U-verse. City Council meetings are also video streamed live and are available on the City's website and YouTube channel. Members of the public may offer public comment by the following means:

Dial in Phone Number: 916-774-5353

Email: citycouncil@roseville.ca.us

If you need a disability-related modification or accommodation to participate in this meeting, please contact Voice: 916-774-5200, TDD: 916-774-5220. Requests must be made as early as possible.

1. CALL TO ORDER

Mayor John B. Allard II called the meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Bernasconi, Alvord, Roccucci, Houdesheldt, Allard

3. PLEDGE OF ALLEGIANCE

Councilmember Bruce Houdesheldt led the Pledge of Allegiance.

4. MEETING PROCEDURES

City Clerk Sonia Orozco addressed procedures for addressing the City Council.

5. City Response to COVID-19 Pandemic

City Manager Dominick Casey made the presentation to Council.

Response to COVID-19:

Rapidly evolving situation:

- As of today, 78 confirmed cases in Placer County, including 2 deaths
- County moved from containment to community mitigation strategy on March 10
- This means proactively taking steps to minimize public contact and exposure
- Stay-at-home directives at the state and county level issued March 19
- Placer County public schools closed for remainder of school year

Essential Services are in Operation:

Public - Facing:

- Fire, Police, Electric, Water, Wastewater, Garbage Collection, Permits, Inspections, Transit, Housing, City Clerk, Park maintenance (trash), Open space, Economic Development

Internal - Facing:

- Finance, IT, Human Resources, Attorney, Fleet Maintenance, City Clerk, Communications & Legislation, Custodial/Facility Maintenance

City Staff:

- All City facilities are closed to the public
- 616 temporary employees who don't have work to do were issued layoff notices March 27; paid through March 27
- City staff who can work from home are doing so
- Video conferencing in wide use
- Thanked Information Technology staff

Goal: Slow the spread of the virus so our healthcare system is not overwhelmed

Keeping our Community Safe:

- Moved officers from other assignments to patrol
- Enhanced presence in neighborhoods and business areas

What's Closed:

- Playground equipment
- Picnic shelters
- Recreation facilities
- Golf courses
- Adventure Clubs
- Libraries
- Passport Facility
- Dog Parks, Basketball and tennis courts, restrooms in city parks

What's Open:

- Parks
- Trails

- Roseville Transit
- Online Permits
- Inspections
- Online Housing services

Helping our Community:

- Provided hand-washing stations to homelessness providers
- Provided portable restrooms to Salvation Army
- Improving restroom facilities at Gathering Inn
- Suspend fare collections for transit
- Volunteer website (more on that later)

Helping Business:

- Applications opened March 26
- 276 applications received; some incomplete
- Have more requests than available funds
- Public/Private panel evaluating and making recommendations
- Funds to be disbursed next week as early on April 10

COVID - 19 Business Outreach:

- Roseville.ca.us/businesshelp
 - Information on local assistance
 - Information on federal assistance (SBA and others)
 - Governor's orders regarding business assistance
- Conducting webinars on available resources
 - Greater Sacramento Economic Council
 - Roseville Area Chamber of Commerce

Preventing Homelessness:

- City put additional \$500,000 toward
 - Homelessness prevention
 - Rapid rehousing
- That's in addition to \$6.4M annually the City administers in federal funding for homelessness prevention
 - \$5.4M Housing choice vouchers
 - \$790K Community Development Block Grants
 - \$250 in homelessness prevention/rapid rehousing

Budget:

- Connecting with other cities in the region and tax consultants to review revenue projections
- Adjusting proposed FY2020-21 budget for potential impacts
- Return to Council in fall to re-evaluate FY21 budget
- Pausing non-essential projects and initiatives to preserve cash
- Identifying reimbursement opportunities related to COVID-19 response

Utilities:

- Working with customers on payment options
- No residential shutoffs; still owe amount due
- Drop in commercial waste pickup; increase in residential waste pickup

Legislative Actions:

- New updates daily
- \$2 trillion CARES Act at the federal level
- Governor's Executive Orders
- Seeking relief on several items including extension of deadlines for many things at the state and federal level due to stay-at-home directive affecting staff availability

Engaging with our Community:

- Council and commission meets broadcast live
- City website & YouTube channel
- Streaming live
- On-demand
- Comcast 14, Consolidated 73, At& T U-verse
- Public participation
- Publiccomment@roseville.ca.us
- (916) 774-5353

Communications:

- From high-tech to low-tech
- Roseville.ca.us/covic19
- E-newsletter
- Social media
- Changeable message signs
- Billboards
- Telephone hotline at (916) 554-5200
- Signs at grocery stores
- Reverse 911 being considered

Roseville Cares Volunteer Website:

City website where help can be exchanged

- roseville.ca.us/rosevillecares
- Non-profits need help can list opportunities
- Non-profits offering help can list services

Thank you to Our Businesses:

Throughout the city, businesses have been supporting our public safety efforts

- Special thanks to Restaurant Depot, Wal-Mart, Starbucks

Coordinating Regionally:

- Coordinating regionally with County Health Department to follow health guidelines
- Participating in daily briefings of the County's Emergency Operations Center
- Checking in with school superintendents, Chamber, non-profits, businesses
- Closely communicating with our local, state, federal officials on needs and concerns

What We Don't Know:

- How long this will last
- If we will need to transition to another level to reduce community spread

What We're Looking At:

- Information is coming in rapidly. It's changing and evolving
- Determining local needs and resources to assist our community
- Developing a plan for our Recovery phase

Website Contacts:

- roseville.ca.us/covid19
- placer.ca.gov/covid19
- California Department of Public Health cdph.ca.gov/covid19
- Centers for Disease Control cdc.gov

Deputy City Manager Megan MacPherson spoke to public comment received via email:

- Paul and Patsy Gissinger - Concerns regarding homeless in Weber Park and inability to peacefully shelter in place due to noise, trash and overall traffic of homeless in the park
- Jose Gutierrez - DCncerns regarding dog parks

Public Comment via telephone:

- Kathleen Crawford - Spoke in favor of format to provide public participation and transparency.

Item for information only. No official action taken.

6. PUBLIC COMMENTS

No public comment received.

7. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Motion by Bruce Houdesheldt, seconded by Krista Bernasconi, to remove Item #7.7 from the Consent Calendar for separate action and approve the remaining items as presented. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

Bids / Purchases / Services

7.1. Screenings Grinder and Washer Compactor Combination Units (RFQ 10-3249) – Reject All Bids

Memo from Buyer Babette Owens and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-097 REJECTING ALL BIDS FOR THE PURCHASE OF SCREENINGS GRINDER AND WASHER COMPACTOR COMBINATION UNITS (RFQ 10-3249). Staff recommends rejecting the bid received for Request

for Quotes (RFQ 10-3249) for Screenings Grinder and Washer Compactor Combination Units in order for the City to clarify the bid specifications. Upon Council's approval to reject the current bid, a new RFQ will be issued. There is no fiscal impact at this time, since there will be no contract award.

CC #: 0676

File #: 0203-09 & 0203-21

CONTACT: Babette Owens 916-774-5704 bowens@roseville.ca.us

7.2. Vehicle Purchases and Out-of-State Travel Request

Memo from Fleet Manager Brian Craighead and Public Works Director Jason Shykowski recommending the City Council approve a purchase order to Downtown Ford Sales for two Ford Transit Connect cargo vans utilizing RFQ 10-3251 in the amount of \$50,992; approve a purchase order to Oroville Ford, Inc. for one Ford F350 utility body truck utilizing RFQ 10-3252 in the amount of \$52,426; approve a purchase order to McNeilus Truck and Manufacturing, Inc. for one Autocar Compressed Natural Gas (CNG) truck with a McNeilus front loading body utilizing Sourcewell contract# 091219-MCN in the amount of \$389,771; approve purchase orders to Pleasanton Truck and Equipment Repairs, Inc. dba Preferred Truck and Equipment for two Autocar CNG and two Autocar diesel trucks with Heil front loading bodies utilizing Sourcewell contract 091219-THC in the amount of \$1,423,083. Funding for these vehicles is included in the FY2019-20 Auto Replacement budget. Staff also requests Council approval for out of state travel for Fleet Services and Waste Services staff members to attend final factory inspections for the Autocar trucks with front loading bodies being built by McNeilus in Dodge Center, Minnesota and Heil in Fort Payne, Alabama. The estimated schedule for the final inspections is November 2020. Costs related to travel including air fare, lodging and meals are included in the departments FY2019-20 operating budget and will be included in the proposed FY2020-21 budget.

CC #: 0678

File #: 0203-01 & 0600-02

CONTACT: Brian Craighead 916-774-5731 bcraighead@roseville.ca.us

7.3. Janitorial Supplies (RFP 10-017) – Purchase Orders

Memo from Buyer Tiffany Valdez and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 20-093 APPROVING A PURCHASE ORDER FOR JANITORIAL SUPPLIES. Janitorial supplies are used in support of custodial services for City facilities. The estimated total award for the initial contract through June 30, 2021 is \$380,000. Funding is included in the FY2019-20 budget for the Public Works Department's Custodial Division and the Central Stores inventory replacement account. Staff requests authorization to renew without further City Council approval, contingent upon budget approval each year.

CC #: 0672

File #: 0203-04

CONTACT: Tiffany Valdez 916-774-5708 tvaldez@roseville.ca.us

7.4. Fire Department Self-Contained Breathing Apparatus Air Compressor Equipment - Contract Purchase Agreement

Memo from Fire Division Chief Jason Rizzi and Fire Chief Rick Bartee recommending the City Council adopt RESOLUTION NO. 20-089 APPROVING A CONTRACT PURCHASE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND BAUER COMPRESSORS INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends award of a \$75,214.59 contract purchase agreement to Bauer Compressors for the purchase and installation of a self-contained breathing apparatus air compressor. The total purchase cost of \$75,214.59 is included in the existing General Equipment Replacement Fund budget. Maintenance costs for the new equipment are expected to be equivalent to the maintenance costs for the equipment being replaced, and is included in the Fire Department's existing budget.

CC #: 0668

File #: 0203-12

CONTACT: Jason Rizzi 916-774-5802 jrizzi@roseville.ca.us

7.5. On-Call Construction Inspection Services - Service Agreement Amendment

Memo from Park Development Analyst Rjahja Canlas and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 20-095 APPROVING AMENDMENT NO. 1 TO SERVICE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND 4LEAF, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. 4Leaf, Inc. provides on-call inspection services for the Parks, Recreation & Libraries Department. The requested amendment will increase the service agreement amount by \$150,000 bringing the total amount for Service Agreement S2004161 to \$350,000 for FY2019-20. Work performed under this service agreement will utilize developer fees and/or capital improvement project budgets.

CC #: 0674

File #: 0704

CONTACT: Rjahja Canlas 916-774-5342 rcanlas@roseville.ca.us

Resolutions

7.6. South Placer District Transportation Sales Tax Expenditure Plan and Ballot Measure

Memo from Administrative Assistant Lainie Anderson and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-098 APPROVING THE EXPENDITURE PLAN FOR THE SOUTH PLACER COUNTY DISTRICT FOR THE CITIES OF LINCOLN, ROCKLIN AND ROSEVILLE. The proposed South Placer County District, if approved by voters in the District, will comprehensively address the gap in local grant matching funds needed for transportation in the District. Without a local source of funding, the South County will continue to fall significantly behind in addressing traffic

congestion which has been increasing exponentially over the last few years.

CC #: 0677

File #: 0721

CONTACT: Lainie Anderson 916-746-1329 landerson@roseville.ca.us

7.7. 2021 Residential Resurfacing Project - Road Maintenance and Rehabilitation Account Project Identification

Memo from Senior Engineer Noah Siviglia and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 20-090 ADOPTING THE 2021 RESIDENTIAL RESURFACING PROJECT FUNDED BY SENATE BILL 1: THE ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017. Local agencies are required to list all proposed projects scheduled to receive Senate Bill 1 (SB 1) funding by resolution prior to receiving an apportionment of Road Maintenance and Rehabilitation Account (RMRA) funds in a fiscal year. This item identifies the City's 2021 Residential Resurfacing Project for use of the 2021 funding allotment. The project will repair damaged asphalt and apply a maintenance surface treatment to Automall Drive and various residential streets within the Hillcrest and South Cirby neighborhoods. The construction estimate for this project is \$3,500,000 and is funded by \$2.64 million from the RMRA Fund (SB 1) with the remaining costs covered by Highway Users Tax and Roadway funds. No General Fund resources will be used on this project.

CC #: 0669

File #: 0900-04-02

CONTACT: Noah Siviglia 916-746-1379 nsiviglia@roseville.ca.us

Item removed by Councilmember Pauline Roccucci for presentation.

Mike Luken - Executive Director of the Placer County Transportation Planning Agency - Spoke on the action and requested the City Council approve the listed resolution and adopt the expenditure plan for the South Placer County District for the cities of Lincoln, Rocklin, and Roseville.

Public Works Director Jason Skykowski spoke in support and spoke to planned improvements.

Mike Garabedian - Vice Chair of the Placer Group Sierra Club - spoke in opposition on proposed Council action via teleconference.

Motion by Krista Bernasconi, seconded by Bruce Houdesheldt, to adopt RESOLUTION NO. 20-098 APPROVING THE EXPENDITURE PLAN FOR SOUTH PLACER DISTRICT FOR THE CITIES OF LINCOLN, ROCKLIN, AND ROSEVILLE. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci

7.8. Oak Ridge Drive Bridge Replacement Project – Purchase of Shaded Riverine Aquatic (Stream Channel) Mitigation Credits

Memo from Environmental Coordinator Terri Shirhall and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 20-094 APPROVING AN AGREEMENT FOR SALE OF MITIGATION CREDITS, BY AND BETWEEN WESTERVELT ECOLOGICAL SERVICES, LLC AND CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The total cost to purchase the mitigation credits for the Oak Ridge Drive Bridge Replacement project is \$22,215.60. The project is federally funded by the Bridge Rehabilitation and Reconstruction – Highway Bridge Program and toll credits. No General Fund resources are used for the project.

CC #: 0673

File #: 0900-04-01

CONTACT: Terri Shirhall 916-774-5536 tshirhall@roseville.ca.us

7.9. Interconnected Operations Agreement Exhibit C Revision 2

Memo from Resource Analyst Brian Schinstock and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 20-092 APPROVING EXHIBIT C, REVISION 2 TO CONTRACT 04-SNR-00848, BETWEEN THE CITY OF ROSEVILLE AND THE UNITED STATES DEPARTMENT OF ENERGY WESTERN AREA POWER ADMINISTRATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of an updated Exhibit to the Interconnected Operations Agreement (IOA) between Roseville and Western Area Power Administration. This IOA Exhibit update will conform Roseville's contract and requirements with the current reliability standards. This change is forecast to lower Roseville's annual power supply costs by \$90,000.

CC #: 0671

File #: 0800-03

CONTACT: Brian Schinstock 916-746-1658 bschinstock@roseville.ca.us

7.10. RG Phillips (F-52) Park Project - Notice of Completion

Memo from Park Development Analyst Joel De Jong and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 20-096 ACCEPTING THE PUBLIC WORK KNOWN AS THE RG PHILLIPS (F-52) PARK PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PARKS, RECREATION AND LIBRARIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. Staff has made a final inspection of the RG Phillips (F-52) Park project and has found that all contract work has been completed in accordance with the approved plans and specifications. The project is now ready for acceptance. In accordance with City specifications, the contractor shall guarantee the installation of these improvements for a period of twelve (12) months from the date of this Notice of Completion. Funding for the project was approved

in FY2017-18 using West Roseville Neighborhood Park funds. Maintenance for this park is provided through the West Roseville Community Facilities District for Services. There is no General Fund impact.

CC #: 0675

File #: 0704-01

CONTACT: Joel De Jong 916-774-5924 jdejong@roseville.ca.us

Ordinances (for introduction and adoption - appropriation/urgency measures)

7.11. Aquifer Storage and Recovery Wells Design Project - Professional Design Services Agreement and Budget Adjustment

Memo from Senior Engineer Jason Marks and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 20-091 APPROVING A PROFESSIONAL DESIGN SERVICES AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND CAROLLO ENGINEERS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6203 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests approval and award of a Professional Design Services agreement with Carollo Engineers, Inc. in the amount of \$3,961,791.00 for the Aquifer Storage and Recovery Wells Design project. Funding for this agreement is provided by the Water Construction Fund.

CC #: 0670

File #: 0900-02 & 0201-01

CONTACT: Jason Marks 916-774-5508 jtmmarks@roseville.ca.us

7.12. Fire Department Hazardous Materials Classes/Supplies - Budget Adjustment

Memo from Assistant Fire Chief Brian Diemer and Fire Chief Rick Bartee recommending the City Council adopt ORDINANCE NO. 6202 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2019-20 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The recommended ordinance approves a budget adjustment for revenue in the amount of \$24,000, which will offset the expenses directly related to teaching the specialized hazardous materials classes, instructor costs, creating/maintaining props and replenishing disposable supplies. The recommended budget adjustment will result in no net impact to the General Fund.

CC #: 0666

File #: 0203-12 & 0201-01

CONTACT: Brian Diemer 916-746-1392 bdiemer@roseville.ca.us

Ordinances (for second reading and adoption)

7.13. Second Reading - Amoruso Ranch - Rezone and Development Agreements Amendments

ORDINANCE NO. 6204 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, BROOKFIELD SUNSET, LLC AND JENNIFER M. AMORUSO, SUCCESSOR TRUSTEE OF THE AMORUSO FAMILY LIVING TRUST DATED MARCH 15, 2005 RELATIVE TO THE AMORUSO SPECIFIC PLAN (525.7 ACES) AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and ORDINANCE NO. 6205 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, BROOKFIELD SUNSET, LLC AND JENNIFER M. AMORUSO, SUCCESSOR TRUSTEE OF THE AMORUSO FAMILY LIVING TRUST DATED MARCH 15, 2005 RELATIVE TO THE AMORUSO SPECIFIC PLAN (148.7 ACES) AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and ORDINANCE NO. 6206 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE NO. 5428 OF THE CITY OF ROSEVILLE CHANGING THE ZONING OF CERTAIN REAL PROPERTY LOCATED WITHIN THE CITY OF ROSEVILLE, for second reading and adoption.

CC #: 0684

File #: 0400-04-15 & 0400-04-15-2 & 0400-02

CONTACT: Gina McColl 916-774-5452 gmccoll@roseville.ca.us

7.14. Second Reading - West Roseville Specific Plan Parcels F-71 and F-66 - Rezone and Development Agreement Amendments

ORDINANCE NO. 6207 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE NO. 6198 OF THE CITY OF ROSEVILLE CHANGING THE ZONING OF CERTAIN REAL PROPERTY LOCATED WITHIN THE CITY OF ROSEVILLE; and ORDINANCE NO. 6208 OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING AN EIGHTH AMENDMENT OF DEVELOPMENT AGREEMENT BY AND AMONG THE CITY OF ROSEVILLE AND ATC REALTY ONE, LLC, AND ROSEVILLE SCHOOLS, LLC RELATIVE TO THE WEST ROSEVILLE SPECIFIC PLAN; and ORDINANCE NO. 6209 OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A NINTH AMENDMENT OF DEVELOPMENT AGREEMENT BY AND AMONG THE CITY OF ROSEVILLE AND JEN CALIFORNIA 15 LLC, TAYLOR MORRISON OF CALIFORNIA, LLC, AND WEST ROSEVILLE DEVELOPMENT COMPANY, INC. RELATIVE TO THE WEST ROSEVILLE SPECIFIC PLAN, for second reading and adoption.

CC #: 0685

File #: 0400-04-09 & 0400-02

CONTACT: Charity Gold 916-774-5247 cgold@roseville.ca.us

Ceremonial Documents

7.15. Proclamation - Sexual Assault Awareness Month

Proclaim the month of April 2020 as Sexual Assault Awareness Month and support Stand up Placer in their efforts to protect vulnerable members of our community.

CC #: 0683

File #: 0102-06

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

7.16. Proclamation - Building Safety Month

Proclaim the month of May 2020 as Building Safety Month and encourage citizens to join with their communities in participation of Building Safety Month activities.

CC #: 0682

File #: 0102-06

CONTACT: M. Bettencourt 916-774-5266 mbettencourt@roseville.ca.us

END OF CONSENT CALENDAR

8. PUBLIC HEARING

8.1. West Roseville Specific Plan Parcel F-55 and W-60a - General Plan Amendment, Specific Plan Amendment, Rezone, and Development Agreement

Public hearing continued to April 15, 2020.

CONTACT: Shelby Vockel 916-746-1347 svockel@roseville.ca.us

City Clerk Sonia Orozco announced item #8.1 is continued to the April 15, 2020 City Council meeting.

8.2. West Roseville Specific Plan Parcel F-55 Park Abandonment

Public hearing continued to April 15, 2020.

CONTACT: Greg Bitter 916-774-5294 gbitter@roseville.ca.us

City Clerk Sonia Orozco announced item #8.2 is continued to the April 15, 2020 City Council meeting

9. COUNCIL REPORTS / PUBLIC COMMENTS

No additional public comment received.

Information Technology Support - Councilmember Pauline Roccucci and

Councilmember Scott Alvord commended staff for support of departments during teleworking due to COVID-19.

Thanked Community - Councilmember Bruce Houdesheldt thanked community for their support of measures to reduce community spread of COVID-19.

South Placer Waste Water Authority Teleconference Meetings - Councilmember Bruce Houdesheldt reported on participation.

Sites Reservoir Representative - Councilmember Bruce Houdesheldt reported on activities.

Happy Easter - Councilmember Bruce Houdesheldt and Mayor John Allard extended wishes.

South Placer District Sales Tax Expenditure Plan and Ballot Measure - Councilmember Scott Alvord spoke in support.

COVID-19 - Councilmember Scott Alvord expressed concerns for small businesses in light of economic factor of virus.

Progression of COVID-19 - Vice Mayor Krista Bernasconi spoke to future if all control words, attitudes and role with the information provided.

Staff Appreciation - Mayor John Allard expressed thanks to employees.

Support Small Business - Mayor John Allard recommended support of small business.

10. ADJOURNMENT

Motion by Scott Alvord, seconded by Bruce Houdesheldt, to adjourn meeting at 7:30 p.m. The Motion Passed.

Roll call vote: Ayes: Allard II, Alvord, Bernasconi, Houdesheldt, Roccucci



COUNCIL COMMUNICATION

CC #: 0716

File #: 0110 & 0103-334-02 & 0216-01 & 0216-02

Title: Community Needs Assessment

Contact: Troy Holt 916-746-1173 tgholt@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 6.36.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council accept a report on the findings and recommendations of a community needs assessment (CNA) for the purpose of guiding the use of Citizens Benefit Fund (CBF) resources and Roseville Employees Annual Charitable Hearts (REACH) funds, and direct the Grants Advisory Commission to develop an implementation strategy.

BACKGROUND

The City Council and the Grants Advisory Commission have engaged in previous discussions about the need for a Community Needs Assessment (CNA), as a means for guiding the use of Citizens Benefit Fund (CBF) resources and Roseville Employees Annual Charitable Hearts (REACH) funds. This need has become more prevalent as policies of the grant program have focused on removing the grant limit, focusing on fewer larger grants for increased collaboration and greater community impact, and more closely measuring community outcomes and data. The Grants Advisory Commission (GAC) reopened the discussion of identifying community needs and establishing a more transparent ranking for future grant funding cycles.

In 2013, the City prepared a Historical Assessment of the Roseville Grant Program. The Historical Assessment evaluated the program since inception and made future recommendations to staff for continued implementation of the program. Phase 1 included a historical assessment of the grant process including agencies funded, how many years, how many consecutive years, total awards for each recipient and years requested vs. years granted. Phase 2 was a recommendation that the City have a CNA prepared that comprehensively evaluated community needs, along with nonprofit and grant funding sources.

The City Council gave direction on May 15, 2019 to move forward with the CNA and approved CBF grant funding for consultant services in the preparation of the CNA. On July 9, 2019, the GAC reviewed and provided comment on a draft scope of work. On August 9, 2019, the City Manager's Office released a Request for Proposals (RFP), resulting in the City Council's approval on October 23, 2019 of a professional services agreement with Koné Consulting, LLC.

Koné Consulting, LLC conducted outreach that included interviewing key stakeholders, along with

the five City Council Members and seven GAC Members. Koné also conducted two community workshops and an online survey to gather input on goals of the grants program and ways to measure community impact.

The GAC received a presentation of the findings and recommendations from Koné Consulting, LLC on March 10, 2020. GAC discussed and approved the forwarding of the findings and recommendations to the City Council. Additionally, the GAC discussed the formation of subcommittees to develop an implementation plan for the recommendations. The GAC will continue to discuss the formation of subcommittees at the tentatively scheduled GAC meeting on May 12, 2020.

The CNA findings and recommendations report from Koné Consulting, LLC is provided in Attachment 1 and includes an executive summary. According to Koné, what became clear early on during the assessment is that the Roseville grants program is a unique municipal funding program that represents a commitment to the community and is part of what makes Roseville a special place. That said, the community-at-large is not aware of the grants program, so there is an opportunity to promote the work of the GAC as well as the work of the organizations that are utilizing CBF funding to serve the community.

There was general consensus amongst stakeholders that grant funding priorities should align with the initial intention and the sale of the hospital. This includes a broad definition of health and aligns with the City Council goal of maintaining a healthy community. Stakeholders also agreed that there is an opportunity to streamline current service categories and that the GAC should work to recommend full funding of grant requests in priority areas to make a greater impact rather than funding smaller amounts across applicants.

Roseville is a rapidly growing community and is experiencing the benefits and the challenges that comes with rapid growth. When asked about community needs, stakeholders most frequently mentioned the need to address an increase in people experiencing homelessness in the community, as well as a need for more affordable housing to address rising housing costs. Stakeholders also reported a need for more mental health services and addressing the needs of youth who are currently underserved. There are other city and county efforts addressing these needs, so stakeholders acknowledged that grant funding could not resolve these needs alone but could supplement other efforts. There also remains a dilemma amongst stakeholders about whether the funds should be used to address a specific need in the community or used to benefit as much of the community as possible.

Based upon Koné Consulting's interviews with Commissioners, City Council and community members, and feedback received from the community workshops, the highest priority issues were identified (in no particular order and identified in the outer blue ring in the diagram below) as: 1) improved access to safe and affordable housing for all, 2) a kinder, more inclusive & connected community; 3) improved physical, mental, and behavioral health and wellness, 4) more education and training opportunities for all ages; 5) improved access to quality arts and cultural resources for all, and 6) increased access to healthier food options for lower income communities. There is agreement around using a mixture of qualitative and quantitative data to measure the success of the grant program and an opportunity to improve the metrics through standardizing and clarifying funding priorities.



Figure 3: The center circle represents the primary focus of the GAC and will remain the same over time. The next circle, in green, represents the social determinants of health framework, and the outer circle represents funding priorities identified by stakeholders during the community consensus workshop which are anticipated to change over time as community needs change.

Based upon what Koné Consulting learned through the CNA process, their recommendations are as follows.

1. Regarding Serial Requests, the recommendation is to:

- Fund new projects, innovative ideas, or one-time requests (strategic grants) differently than ongoing services
- Set aside a percentage of funds for strategic grants
- Require current grantees to report on measurable results and consider performance when considering requests for renewed funding
- Make grants for ongoing services (operational grants) on a biennial basis

2. Regarding Focus Years, the recommendation is to:

- Focus grants on one goal - to make Roseville healthier – defining health broadly through the social determinants of health framework
- Coordinate with other city and county health efforts

3. To better define Measures of Success, the recommendations include:

- Implementing measures and targets for each funding priority based on input from workshops
- Developing a logic model or theory of change that supports each funding priority
 - Either GAC could create these or request applicants to describe in their proposals
- Use a Collective Impact Model to convene a community-wide collaboration on priorities and results
 - Support a common agenda, collaboration and shared measures

4. Regarding Administrative Costs and opportunities for Additional Funds, the recommendation is to:

- Continue to support administrative costs of the grant program through the City's General Fund to increase purchasing power

5. Regarding opportunities to Improve Efficiencies and Determining Effectiveness, the recommendation is to:

- Transition to biennial granting for operational grants to decrease paperwork for grantees and the GAC, freeing up time to focus on strategic grantmaking opportunities
- Develop stronger relationships with grantees post grantmaking
 - Invite grantees to present at Commission meetings
 - Formalize site visits
 - Support relationships and collaboration between grantees through quarterly meetings or other venues
- Share grantee performance results so they can be used to improve services provided

6. Regarding Funding Priorities, the recommendations are to:

- Align grant program funding priorities with the original intent and sale of the hospital
- Connect CBF priorities with the City's strategic plan goals related to healthier community
- Increase communication about the CBF, promote outcomes of the program, and convene on priority issues

7. Regarding opportunities to streamline and determine Scope and Ranking Methodology based on local community needs, the recommendation is to:

- Focus on social determinants of health in the next grant cycle and the priorities identified by the community in workshops
- During the next grantmaking cycle, GAC should recommend full funding of grant requests in priority areas to make a greater impact
- Streamline current service categories

The recommendations, as noted above, are meant to provide a framework that will remain a relevant guide for the GAC recommendations and the City Council funding decisions for years to come. The recommendations are flexible and designed to have the ability to adapt to our community needs, including the present COVID-19 community impact/need.

FISCAL IMPACT

The professional services agreement and budget adjustment, approved on October 23, 2019, contained a not-to-exceed amount of \$45,000. No additional funds are necessary for the completion of the CNA.

ENVIRONMENTAL REVIEW

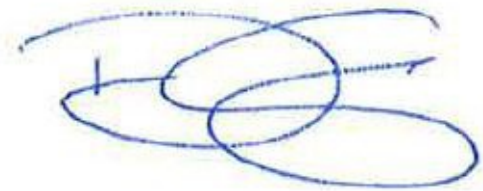
The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines

§15060(c)(3) and §15378. Approval of the findings and recommendations of the Community Needs Assessment meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Troy Holt, Economic Development Manager

Laura Matteoli, Economic Development Director

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, positioned above a horizontal line.

Dominick Casey, City Manager

ATTACHMENTS:

Description

Roseville CNA Report Final - Kone Consulting 4.2020

FINAL REPORT

**City of Roseville
Community Needs
Assessment**

PREPARED FOR
City of Roseville
April 2020



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Executive Summary

The City of Roseville and Koné Consulting have conducted a community needs assessment for the purpose of guiding the use of Citizens Benefit Funds (CBF) and Roseville Employees Annual Charitable Hearts (REACH) funds. As next steps identified during the Historical Assessment of the Roseville Grants Program in 2013, the focus of this assessment includes: 1) revisiting the policy of **serial requests**, 2) discussion and recommendation on whether to establish **focus years**, 3) discussion and recommendation on **measures of success**, 4) opportunities to increase **money available for grants**, 5) policy discussion and recommendation on whether the **administrative costs** of administering the Grant Program be supported by the General Fund or covered by Grant Funds, 6) ways **to improve efficiencies and determine effectiveness** of grant funding, 7) exploration and recommendation on the use of **funding priorities**, 8) exploration of opportunities to streamline and determine **scope and ranking methodology** based on local community needs.

To achieve the objective, a mixed-methods research approach was utilized, thus ensuring findings represent a broad perspective. The approach included 26 key informant interviews, two community workshops with a total of 39 participants, an online survey garnering 673 responses, and analysis of extant data/reports to identify community needs, resources, and opportunities.

What became clear early on during this assessment is that the Roseville grants program is a unique municipal funding program that represents a commitment to the community and part of what makes Roseville a special place. That said, the community-at-large is not aware of the grants program, so there is an opportunity to promote the work of the Grants Advisory Commission (GAC) as well as the work of the organizations that are utilizing CBF funding to serve the community.

*"The Roseville Grants Advisory Commission offers a resource to **make a difference in our community** – the kind of thing that **makes Roseville a special place** – continuing the legacy."*

There was general consensus amongst stakeholders that grant funding priorities should align with the initial intention and the sale of the hospital. This includes a broad definition of health and aligns with the City Council goal of maintaining a healthy community. Stakeholders also agreed that there is an opportunity to streamline current service categories and that the GAC should work to recommend full funding of grant requests in priority areas to make a greater impact rather than funding smaller amounts across applicants.

Roseville is also a rapidly growing community and is experiencing the benefits and the challenges that comes with rapid growth. When asked about community needs, stakeholders most frequently mentioned the need to address an increase in people experiencing homelessness in the community, as well as a need for more affordable housing to address rising housing costs. Stakeholders also reported a need for more mental health services and addressing the needs of youth who are currently

underserved. There are other city and county efforts addressing these needs, so stakeholders acknowledged that grant funding could not resolve these needs alone but could supplement other efforts. There also remains a dilemma amongst stakeholders about whether the funds should be used to address a specific need in the community or used to benefit as much of the community as possible.

Based on community feedback from the community workshops, the highest priority issues were identified (in no particular order) as: 1) improved access to **safe and affordable housing** for all, 2) a **kinder, more inclusive & connected community**; 3) improved **physical, mental, and behavioral health and wellness**, 4) more **education and training opportunities** for all ages; 5) improved access to **quality arts and cultural resources** for all, and 6) increased access to **healthier food options** for lower income communities. There is agreement around using a mixture of qualitative and quantitative data to measure the success of the grant program and an opportunity to improve the metrics through standardizing and clarifying funding priorities.

Based on what was learned through the assessment, our recommendations are as follows.

Regarding **Serial Requests**, our recommendation is to:

- Fund new projects, innovative ideas, or one-time requests (**strategic grants**) differently than ongoing services
- Set aside a percentage of funds for strategic grants
- Require current grantees to report on measurable results and consider performance when considering requests for renewed funding
- Make grants for ongoing services (**operational grants**) on a biennial basis

Regarding **Focus Years**, our recommendation is to:

- Focus grants on one goal - to **make Roseville healthier** – defining health broadly through the social determinants of health framework
- Coordinate with other city and county health efforts

To better define **Measures of Success**, our recommendations include:

- Implementing **measures and targets** for each funding priority based on input from workshops
- Developing a logic model or theory of change that supports each funding priority
 - o Either GAC could create these or request applicants to describe in their proposals
- Use a **Collective Impact Model** to convene a community-wide collaboration on priorities and results
 - o Support a common agenda, collaboration and shared measures

Regarding **Administrative Costs** and opportunities for **Additional Funds**, our recommendation is to:

- Continue to support administrative costs of the grant program through City general funds

- Consider requiring real and in-kind matching funds when awarding operational grants to organizations to increase purchasing power

Regarding opportunities to **Improve Efficiencies and Determining Effectiveness**, our recommendation is to:

- Transition to **biennial granting** for operational grants to decrease paperwork for grantees and the GAC, freeing up time to focus on strategic grantmaking opportunities
- Develop stronger **relationships** with grantees post grantmaking
 - o Invite grantees to present at Commission meetings
 - o Formalize site visits
 - o Support relationships and collaboration between grantees through quarterly meetings or other venues
- Share grantee performance results so they can be used to improve services provided

Regarding **Funding Priorities**, our recommendations are to:

- Align grant program funding priorities with the **original intent** and sale of the hospital
- **Connect** Citizens' Benefit Fund (CBF) priorities with the City's strategic plan goals related to healthier community
- Increase **communication** about CBF, **promote outcomes** of the program, and **convene** on priority issues

Regarding opportunities to streamline and determine **Scope and Ranking Methodology** based on local community needs, our recommendation is to:

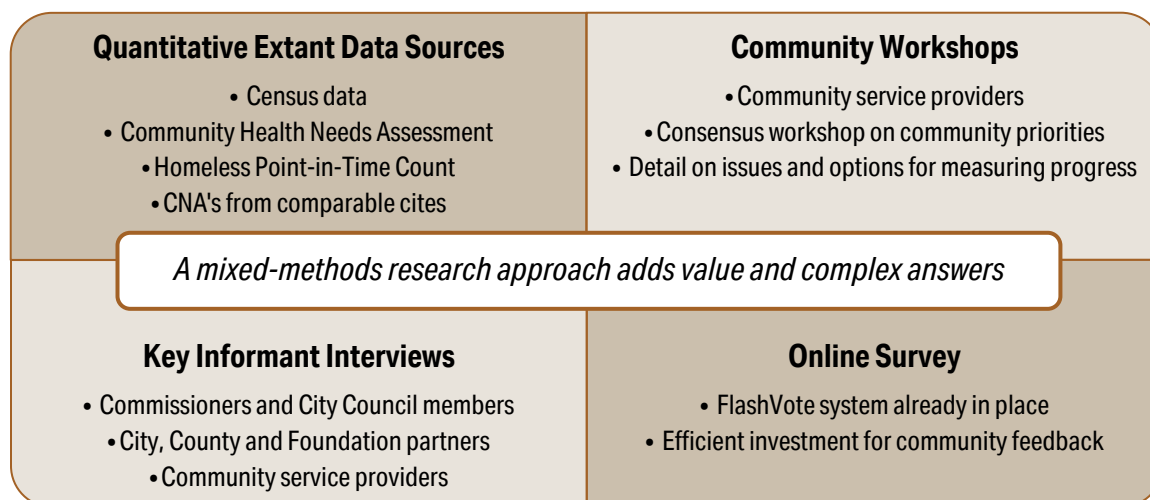
- Focus on **social determinants of health** in next grant cycle and the priorities identified by the community in workshops
- During the next grantmaking cycle, GAC should recommend **full funding of grant requests** in priority areas to make a greater impact
- **Streamline** current service categories

These recommendations provide a framework that will remain a relevant guide for GAC recommendations and City Council funding decisions for years to come while also allowing the flexibility to adapt to changing needs in the community. More details on the findings and recommendations can be found in the body of this report.

Approach

To achieve the objective of this assessment, a mixed-methods research approach was utilized, thus ensuring findings represent a broad perspective. We conducted the following activities:

- 26 Key Informant Interviews – see Attachment A for interview protocol and Attachment B for coded themes
- 2 Community Workshops (39 participants) – see Attachments E and G for the outcomes
 - The first workshop was conducted using the **Institute of Cultural Affairs (ICA) Technology of Participation (ToP)** methodology to facilitate group processes through a consensus-based approach that focuses on including all points of view, perspectives and experiences.
 - The second workshop was a performance measurement workshop using the **PuMP Blueprint** developed by Stacy Barr. The PuMP Blueprint is a deliberate step-by-step performance measurement process, wherein participants map measurable results, design meaningful measures, and build buy-in to measures, leading to interpreting signals from measures, reporting performance measures, and ultimately reaching performance targets.
- Flash Vote Survey (673 respondents) – Attachment C
- Extant Data/Reports Synthesis



Background

The City of Roseville and Koné Consulting have conducted a community needs assessment for the purpose of guiding the use of Citizens Benefit Funds (CBF) and Roseville Employees Annual Charitable Hearts (REACH) funds.

In 2013, the City prepared a Historical Assessment of the Roseville Grant Program. The Historical Assessment evaluated the program since inception and made recommendations for continued

implementation of the program. Phase one included a historical assessment of the grant process including agencies funded, how many years, how many consecutive years, total awards for each recipient and years requested vs. years granted. Phase two was a recommendation that the City have a community needs assessment conducted that examines the process for awarding grants, along with nonprofit and grant funding sources.

As next steps identified during the Historical Assessment, the focus of this assessment includes: 1) revisiting the policy of **serial requests**, 2) discussion and recommendation on whether to establish **focus years**, 3) discussion and recommendation on **measures of success**, 4) opportunities to increase **money available for grants**, 5) policy discussion and recommendation on whether the **administrative costs** of administering the Grant Program be supported by the General Fund or covered by Grant Funds, 6) ways **to improve efficiencies and determine effectiveness** of grant funding, 7) exploration and recommendation on the use of **funding priorities**, 8) exploration of opportunities to streamline and determine **scope and ranking methodology** based on local community needs.

The community needs assessment will be presented to the City Council for review and approval with the intent of the Grants Advisory Commission to implement policy recommendations prior to the FY 2021/22 grant funding cycle.

Findings and Recommendations

Overview/Origins

*"GAC funding shows a **sense of community**. Compassion. **Heart**."*

What became clear early on during this assessment is that the Roseville grants program is a unique municipal funding program that represents a commitment to the community and part of what makes Roseville a special place. There is pride amongst those interviewed that City leadership had the foresight to turn the hospital sale into a way to benefit the community. The grant funding honors the providers in the community and shows heart.

One interesting finding learned through the FlashVote survey is that **the greater community (75%) is not familiar with the Citizens Benefit Fund**. There is an opportunity to promote the work of the commission as well as the work of the organizations that are utilizing CBF funding to serve the community.

*"GAC **honors nonprofits** and those that really lay down such an investment of time and talent and energy to **really serve other people**."*

Community Needs

This community needs assessment is different than the **community needs survey** which is conducted by the City through the Roseville Housing Authority every two years to better understand the housing and service needs of the community. The results of the community needs survey were not available at the writing of this report but should also be considered by the grants commission in the future to inform funding priorities.

Homelessness

Homelessness quickly became a theme when talking to stakeholders about community needs. Homelessness was the most frequently mentioned need during interviews and also as a write-in response on the survey. We looked into data on homelessness and found that homelessness has been increasing in the City of Roseville. 2020 data is not available at this time but should be taken into consideration during the next grant cycle. According to the 2019 **Point-in-time count** results (see attachment D) there were 258 people living homeless in the City of Roseville. Most were living in Placer County at least one year before becoming homeless and 46% are considered chronically homeless – living homeless for a year or more or having experienced four or more episodes of homelessness in the past three years.

"Homelessness is pervasive – there's a misconception that it only exists in certain areas. Anywhere there is a creek or roadway – there is an encampment."

Stakeholders also discussed the related need for affordable housing. The demand for housing is increasing as the city experiences rapid growth - 17% increase in population since 2010¹ and this has impacted the housing market as well. In 2017, 39.2% of households in Roseville were cost-burdened, meaning they spend 30% or more of their monthly income on housing.

Other frequently mentioned community challenges or areas of need include mental health, underserved youth, transportation/traffic, gentrification, community outreach, healthcare, and parks.



Figure 1: Coded themes from interviews. Size of word represents the number of times it was mentioned.

¹ https://www.roseville.ca.us/government/departments/economic_development/demographics

Health

The next data source we looked into was the 2019 Community Health Needs Assessment conducted by Kaiser Permanente for Kaiser Foundation Hospital-Roseville. According to this report, Roseville hospital service area (HSA) is doing better than the state average in the areas of **healthy eating & active living, and health access**, *except* there are **significant disparities** by race and ethnicity related to obesity, physical inactivity, receipt of Supplemental Nutrition Assistance Program (SNAP) benefits, and stroke deaths; and higher rates of cancer and people of color are at greater risk of being uninsured, not receiving preventive care, and dying from cancer. Roseville HSA is similar to the state average in **mental and behavioral health**, however, have *slightly higher* rates of suicide deaths and **fewer mental health providers** per capita.²

"We are not serving our young people. We have failed our youth. We need to support mental health for teenagers and youth experiencing homelessness."

Serial Requests

Upon revisiting the policy of awarding funds to a single organization on a regular/annual basis, the majority of stakeholders support funding programs or services year-after-year as long as the organizations are achieving results towards funding priorities. Stakeholders also believe regular grantees could be held to higher standards such as sharing budgets and sustainability plans. There is also interest in incentivizing or prioritizing new ideas or innovative programs and funding pilot projects.



Recommendation

We recommend the GAC fund new project ideas and one-time requests, referred to as **strategic grants** differently than currently funded programs. The GAC should set aside a percentage of funds for innovative projects or new programs and one-time requests. Strategic granting supports adaptive approaches to address community needs that require collaboration, experimentation and learning. An example of a strategic grant could be funding an organization that has an idea for a new program that they believe would have a great impact in the community and need financial support to pilot. Another example of a strategic grant could be an organization that needs a "big ticket" item through a one-time request such as a vehicle or a refrigerator in order to continue or expand operations.

The GAC should continue to make grants for ongoing services, referred to as **operational grants** but do so on a biennial basis. Biennial granting for operating support is a best practice in granting as it allows organizations to build a stronger base of operations, plan ahead, build capacity, and reduces the administrative burden on grantees.³ Philanthropic organizations and comparable cities that fund

² <https://about.kaiserpermanente.org/content/dam/internet/kp/comms/import/uploads/2019/09/Roseville-CHNA-2019.pdf>

³ <https://www.ncrp.org/publications/good-grantmaking-practices>

community services use the biennial granting model.^{4/5} Biennial granting also frees up GAC time (less applications to review every year) to focus on strategic grantmaking opportunities. GAC should continue to require current grantees to report on measurable results at least annually and consider performance when considering requests for renewed funding.

Focus Years

There is little interest amongst stakeholders in establishing focus years – where grant funding would be strategically directed towards a single cause. Most believe changing focus every year would not allow enough time to make a meaningful impact and would negatively impact continuity of funding for important community services. Stakeholders acknowledged that there are already other City and County efforts addressing community needs - including services for high priority needs like homelessness and health - and that even a year's worth of CBF funds cannot address these needs alone but could supplement other efforts when distributed strategically. There is interest in focusing the priority of the grant funding and establishing a structure to fund across community priorities.



Recommendation

GAC should focus grants on one goal - to **Make Roseville Healthier**. Health should be defined broadly, utilizing the social determinants of health framework as identified in the green section of Figure 3 below. The GAC should coordinate funding with other city and county health efforts to supplement funding where there may be higher needs or service gaps.

Funding Priorities

The first community workshop, survey results and stakeholder interviews provided a clear picture of constituents' feedback around funding priorities and community needs. The community workshop "sticky wall" output (as seen in the photo) may be found in Attachment E.



⁴ <https://cityoflakewood.us/community-services/human-services-grants/>

⁵ <http://www.ashland.or.us/Page.asp?NavID=15304>

The **highest priority issues** to fund based on community feedback are:

- Improved access to safe, affordable housing for all
- More vocational education and training opportunities for all ages
- Increased access to healthier food options for lower income communities
- Kinder, more inclusive & connected community
- Improved access to quality arts and cultural resources for all
- Improved physical, mental, and behavioral health and wellness

"The homeless issue itself is huge. Personally, I think it needs to be taken up at city or county level. Nonprofits wouldn't be able to take up the issue as a whole..."

The results of the survey included many respondents identifying a need to address the growing homeless issue in the community by prioritizing funding for homeless services. Additional responses to prioritizing funding included:

- 53% Improve access to physical and mental health care
- 50% Reduce personal and property crimes
- 41% A more educated community with better access to vocational training
- 35% Improve access to housing for all

When constituents were asked via survey what the best way to prioritize grant funding, there were more responses to addressing specific needs in the community (71%) versus using funding to benefit as much of the community as possible (48%). This was a dilemma that often came up during interviews as well.

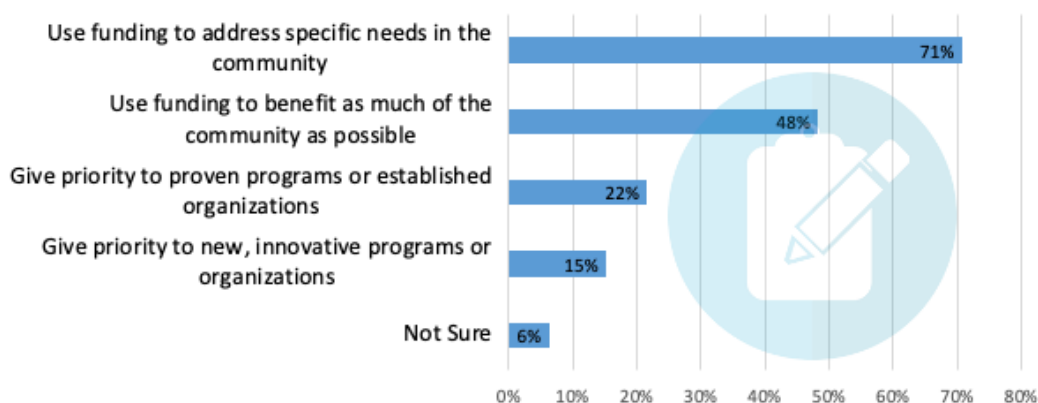


Figure 2: Survey results when asked what the best way to prioritize grant funding. Respondents could choose up to two.



Recommendation

The GAC should prioritize funding based on the high-level goal to make Roseville healthier (center circle of Figure 3 below) which should not change over time, then use the social determinants of health framework as the broader definition of health (second, green circle of Figure 3 below) to organize and streamline the priorities identified by the community in workshops (outer, blue

circle of Figure 3 below). The funding priorities in the outer circle should change over time as the needs in the community change.

The GAC should coordinate funding in these priority areas with other City and County health efforts to supplement funding where there may be higher needs or service gaps – for instance around health disparities noted in the Community Health Needs Assessment. This could be achieved by establishing a structure that identifies percentages of strategic and operational grants for each of the funding priorities (as outlined in the next section) based on the need and service gaps in the community. For example, the City could decide to focus 50% of funding towards improving access to affordable housing for all and set aside 10% of that funding for strategic grants and the remaining 90% would go towards operational grants.

The City should also increase communication about the grant program and the identified funding priorities and promote the outcomes.



Figure 3: The center circle represents the primary focus of the GAC and will remain the same over time. The next circle, in green, represents the social determinants of health framework, and the outer circle represents funding priorities identified by stakeholders during the community consensus workshop which are anticipated to change over time as community needs change.

Measures of Success

There is agreement amongst stakeholders around using a mixture of qualitative and quantitative data to measure the success of the grant program. Survey respondents (77%) agreed that specific data should be used to measure quantity of outcomes – such as number of people served, services delivered, things built, etc). Qualitative measures such as sharing stories should be used to demonstrate impact and quality of services. Stakeholders recommend improving the metrics used to measure the impact of grant awards through standardizing and clarifying GAC funding priorities.

Workshop participants refined the funding priorities and developed a menu of possible performance measures during the performance measurement workshop. The result of the workshop and the menu of possible measures in Figure 4 below (also found in Attachment H) provides a starting point, not a final or cumulative list of ways to measure performance. Just as the needs in the community will change over time, so will the measures. The menu of measures should be refined and updated using the worksheets used during the performance measures workshop which can be found in Attachment F. The menu of possible measures provides options for applicants to choose one or two to for reporting in order to track progress towards the collective impact.

Menu of Measures

Target: Healthy Community

Measures represent ways in which grants/grantees efforts toward achieving priorities may be measured and tracked toward the Healthy Community target.

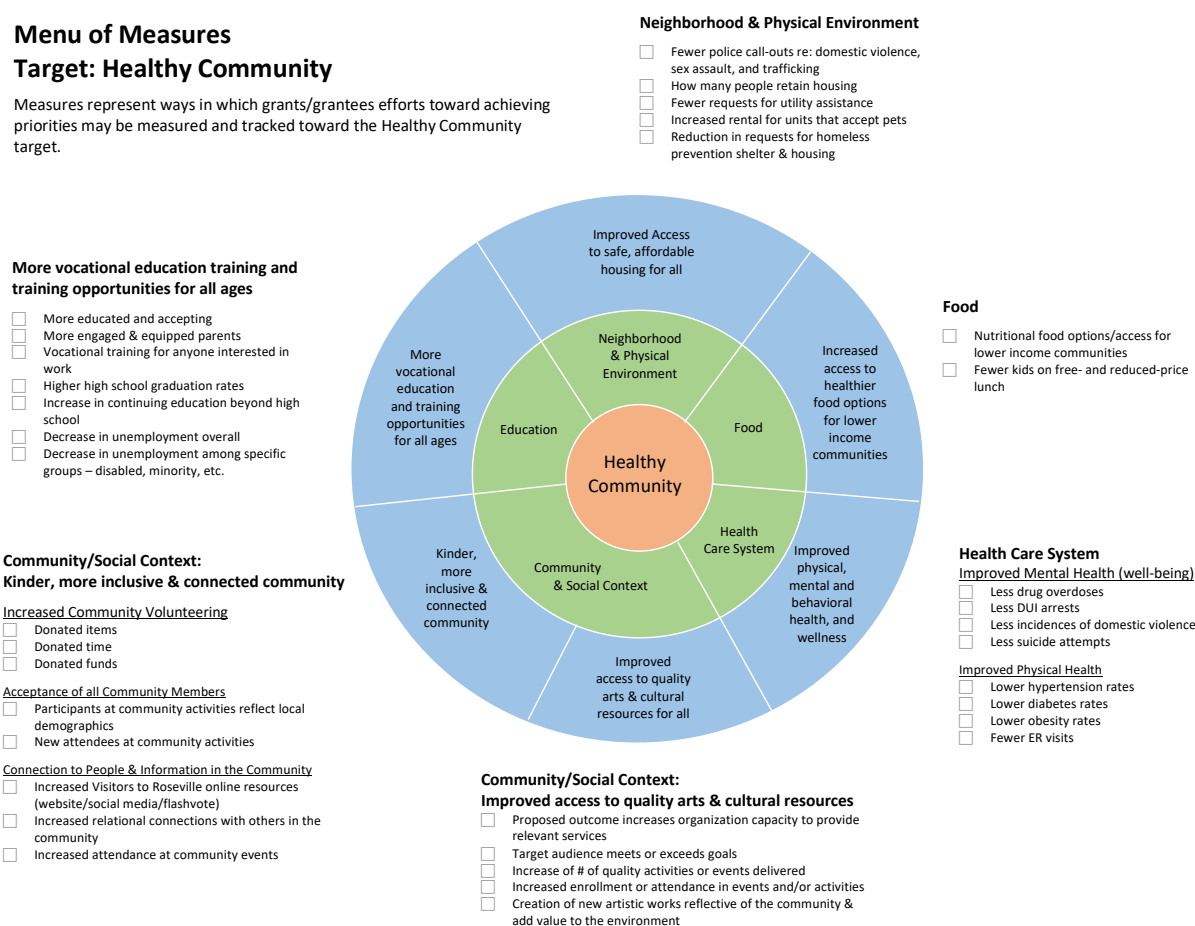


Figure 4: Funding priorities and menu of possible performance measures to track progress towards a collective impact.



Recommendations

The GAC should implement **measures and targets** for each funding priority based on input from workshops using the menu of possible measures and develop an implementation plan to refine the measures and at what frequency to do so. Measures should respond to three different levels:

- 1) Quantity – how much did we do?
- 2) Quality – how well did we do it?
- 3) Is anyone better off?

We recommend developing a **logic model** to demonstrate the **theory of change** that supports grant request.⁶ A logic model outlines: the relationship between what you have- the resources; what you do- the activities; what you produce- the outputs; and, the results- or outcomes. A logic model is one way to describe or demonstrate the underlying theory of change, which also usually includes the bigger picture like the things that can't be controlled. Logic models for each funding priority could be created by GAC, or they could be created by applicants and described in their grant proposals.

We also recommend the use of a **Collective Impact Model** – based on the observation that organizations working together towards the same goal are more likely to make progress towards solving complex problems together than if they were working on their own. A collective impact initiative surpasses collaboration in a few important ways that the grants program already has going for it – shared goals, measures, a coordinating committee (GAC), open communication, and the resources to sustain it and support activities like convening a community-wide collaboration on priorities and results.^{7/8}

Scope and Ranking Methodology

Stakeholders agreed that there is a need to streamline current service categories and that GAC should strive to make a greater impact by fully funding fewer, larger grants that serve the highest needs of the community while also considering the greater good.



Recommendations

We recommend using the social determinants of health as the framework and focusing on the priorities identified by the community in workshops in the next grantmaking cycle. GAC should establish a structure that identifies percentages of strategic and operational grants for each of the funding priorities. This could include full funding of grant requests in one priority area to make a greater impact and determining percentage for a second and third funding priority based on the need and service gaps in the community. For example, the City could decide to focus 50% of funding towards improving access to affordable housing for all and set aside 10% of that funding for strategic

⁶ https://hewlett.org/wp-content/uploads/2016/08/Outcome_Focused_Grantmaking_March_2012_0.pdf

⁷ <https://www.councilofnonprofits.org/tools-resources/collective-impact>

⁸ <https://www.sopact.com/perspectives/collective-impact-model>

grants and the remaining 90% would go towards operational grants. The City could decide to focus 30% of funding on improved physical, mental and behavioral health and wellness and set aside 20% of that funding for strategic grants and the remaining 80% would go towards operational grants.

We also recommend a blend of “transactional” and “transformational” metrics – specific data should be used to measure quantity of outcomes – such as number of people served, services delivered, things built, etc). Qualitative measures such as sharing stories should be used to demonstrate the quality of services and the impact.

Administrative Costs

GAC administrative costs are currently covered by the City General Fund, in the amount of \$28,000. This is a relatively low cost in relation to the \$360,000 in grants awarded and stakeholders agree that there are additional benefits to the City administering the grants program including learning opportunities for city staff and commissioners.



Recommendation

We recommend the City continue to support administrative costs of the grant program through City general funds.

Additional Available Funds for Grants

There aren't currently any practical missed opportunities identified by stakeholders within Roseville or the County to significantly increase money available for grants. Stakeholders report that a lot of businesses in the community are already donating to causes but there may be an opportunity to promote the CBF with new businesses moving into the community. Some suggested City-sponsored fundraisers as a way to raise funds. There is an opportunity to increase purchasing power of grants by requiring organizations that receive operational grants to document real or in-kind matching funds.



Recommendation

The GAC should consider requiring real- or in-kind matching funds when awarding operational grants to organizations.

Improving Efficiencies and Determining Effectiveness

A common theme throughout interviews and community workshops was the need for **clearer expectations, policy, and procedures** to improve efficiencies and determine effectiveness of grant funding. Stakeholders agreed it is difficult to understand and trust decision-making when policies are unclear or lack transparency.

“Transparency is very important. The GAC won’t make everyone happy, but applicants deserve to know what to expect going into the process.”



Recommendation

The GAC should update the policy manual in response to the needs assessment and define policies in-writing. Transitioning to **biennial granting** for operational grants will improve efficiencies by decreasing paperwork for grantees and the GAC, freeing up time to focus on strategic grantmaking opportunities. Determining the effectiveness and impact of the grants program requires strategy, planning, collaboration, and focus on outcomes.⁹ This can be accomplished through developing stronger **relationships** with grantees; inviting grantees to present at GAC meetings, formalizing site visits, and supporting relationships and collaboration between grantees. We recommend acting on opportunities to “match” grantees and supporting peer learning and technical assistance. Sharing grantee performance results could also be used to improve services provided.

Conclusion

The challenges that the City of Roseville faces are not necessarily unique, but the foresight of city leaders to develop CBF, the generous spirit of REACH funds, and the compassion and dedication of community organizations are special. The recommendations in this report provide a framework that will remain a relevant guide for GAC recommendations and City Council funding decisions for years to come while also allowing the flexibility to adapt to changes and needs in the community.

Attachments

- A. Interview Protocol
- B. Interview Themes
- C. Flash Survey Data
- D. Roseville 2019 Point-in-Time Report
- E. Community Workshop Results “Sticky Wall”
- F. Performance Measurement Worksheets “How to Measure Impact”
- G. Performance Measurement Workshop Results “Sticky Wall”
- H. Funding Priorities and Menu of Possible Measures

⁹ <https://results4america.org/what-works-toolkit/>





City of Roseville Community Needs Assessment Interview Protocol

Introduction: Thank you for your willingness to be interviewed today. We are working with the City of Roseville on a community needs assessment. This is the second phase of work that began with the historical assessment of the grant program in 2013. Our role is to further explore policy and funding topics identified during the historical assessment. The results of this assessment will be used to develop recommendations for a Grants Strategic Plan and is anticipated to be implemented in the FY2021/22 grant funding cycle.

We have a list of prepared questions, and will be taking notes, but nothing you say will be attributed to you by name to encourage candid responses. Do you have any questions before we begin?

Attendees:	Date:
Question	Response
Please tell us a little more about yourself, your position/role and your organization.	
What is your experience with the grant program and/or Grants Advisory Commission?	
In your opinion, what is the most important accomplishment achieved with the grant funding?	
What do you think is the best way to measure success of the grant program?	
In what ways do you think the GAC could improve the metrics used to measure the impact of the grant awards on the community? (ex: transactional/ quantitative, transformational/ qualitative, etc)	
What opportunities do you see to increase yearly grant funds? (ex: solicit businesses, fundraise, philanthropic partnerships, etc)	
What opportunities do you see to improve efficiencies and determine effectiveness of grant funding?	
Do you think the administrative costs of administering the Grant Program should be supported by the General Fund or covered by Grant Funds?	



The current grant service categories are: At-Risk Populations, Arts & Education, Capital Projects, Community Building, Environment & Animal Services, Health and Human Services. Do you think these are still the right categories? Are there ways to streamline?	
What are your thoughts about funding by service category – for example rotating annually on focus areas and/or setting aside percentages of funds to each category?	
What are your thoughts about revisiting serial requests – the policy of awarding funds to a single organization on a regular/annual basis?	
Do you see a need for prioritizing funding? If so, how would you go about determining what service category should be prioritized?	
What are your thoughts on establishing focus years – where grant funding would be strategically directed towards a single cause or a focused set of causes.	
Conclusion	
Are there any reports or data sources you think are important for us to be aware of in this process?	
Anything else you think is important for us to know?	
Anyone you think we should be sure to interview?	

Roseville CNA Stakeholder Interview Coding

Totals

In your opinion, what is the most important accomplishment achieved with the grant funding?

Makes Roseville special/Shows a sense of community/making a difference serving needs of community	8
Who are we serving - larger & smaller grants; breadth of service	3
Gives funding to small grassroots orgs/seed money	2
Using both GAC funds and CDBG funds	1
Focus on "better" work, new projects	1
Discretionary funding is possible/available	1
Tangible things in community everyone uses - i.e. universally accessible park	1
Moving toward funding larger grants and big impact projects and fewer small grants/orgs	1
Has encourage great partnership/philanthropy with area businesses	1

What do you think is the best way to measure success of the grant program?

Mixture of qualitative and quantitative/follow up	8
arts programs, parks)	5
Measurable data aligned with mission	3
Impact and number of citizens it affects	3
Social determinants of health - outcomes	2
Determining identity of GAC	1
Telling stories is important	1

In what ways do you think the GAC could improve the metrics used to measure the impact of the grant awards on the community?

Standardize/make clear what GAC is prioritizing for funding	6
How many people minimally are being served (by particular program)	4
Come to agreement with grantees on how to measure success/clear about what data GAC is requesting	2
Provide training for potential grantees (ideas to include: match funding, data collection, using public reports to identify/prove need)	2
Determine extent funding is being used for purpose (Mid-cycle check)	2
Request data bi-annually (every other year)	1
Provide in-service training for GAC commissioners to ensure consistent scoring	1
Don't have stringent reporting requirements - GAC members aren't trained to read them.	1
Best if grantee raises some of the needed funds - not exclusively reliant on public funding/grants	1

What opportunities do you see to increase yearly grant funds?

Matching fund	6
Business community (may need to see tax benefit)	4
Challenging to ask for more funds from already philanthropic community	2
City fundraisers - Quilt fundraiser, festival proceeds; new fundraisers like Rose Planter Sculptures around town	2
Big project - i.e. healthcare w Kaiser or Adventis Health	1
Sacramento Regional Foundation	1
Placer Community Foundation	1
Development agreements with new developers/City Manager	1
Expand REACH program	1
Placer Land Grant	1
Council discretionary fund	1

What opportunities do you see to improve efficiencies and determine effectiveness of grant funding?

Clearer expectations, policy and procedures for applicants	7
Annual reports added to website for accountability and transparency	3
Funding by function - hone in on categories	2
Should grants go to Roseville organizations or those serving the greater community	2
Two tracks: 1) big projects, 2) operations	1
Storytelling showcase/educational event - w/ voting on prioritized need/service category through purchased tickets	1
Invite applicants to present on org during GAC mtg	1
Favorably score matching funds	1
Don't score down if org doesn't have matching funds	1
Grants to orgs that are collaborating together	1
Provide multi-year (3 yr) operating support grants - which reduces annual reporting	1

Do you think the administrative costs of administering the Grant Program should be supported by the General Fund or covered by Grant Funds?

Costs s/b supported by general fund, not grant funds	3
City offers grant writing workshop	2
Ask grantees their methods for measuring success/what resources they have to measure	1
Believe orgs have capacity to collect data/doesn't need to be burdensome. Just need direction.	1
Start factoring in the overhead cost of administering the grant program	1

The current grant service categories are: At-Risk Populations, Arts & Education, Capital Projects, Community Building, Environment & Animal Services, Health and Human Services. Do you think these are still the right categories? Are there ways to streamline?

Yes, streamline. Need fewer categories/not duplicate or overlapping	9
Since fund originally came from hospital, should be applied along similar lines; look at original intent of GAC	4
Community Needs Assessment should guide before determining categories	3
What is the definition of need or benefit?	3
Categories creates creative writing on behalf of agencies to fit into prioritized service categories.	2
Would prefer funding arts, music, culture - see bigger benefit - quality of life	2
Need parameters for what it's NOT intended for	1
Embedded social work at Police Dept - Adults and children	1
Seniors aging.	1
Focus limited funds on core neighborhoods and non-profits that serve them.	1

What are your thoughts about funding by service category – for example rotating annually on focus areas and/or setting aside percentages of funds to each category?

Better; able to do more/full funding, fewer grantees	5
Need a framework for grants vs. discretionary; non-subjective scoring	3
Required paperwork must be done to be eligible	1
Orgs getting funding from multiple pots of city money - possibly adjust scoring?	1
Thinks a community survey could help determine priorities	1

What are your thoughts about revisiting serial requests - the policy of awarding funds to a single organization on a regular/annual basis?

Fund smaller, startup, more innovative programs; new ideas	3
Caution orgs that expect/rely on annual grant	3
Look at additional funding groups receive - orgs must be transparent about their budgets	2
Need to implement return on investment reporting	1
Consider if org provides unique (only) service in community	1
Don't punish old standbys - if prgram is doing good things, continue to fund	1

Do you see a need for prioritizing funding? If so, how would you go about determining what service category should be prioritized?

Funding c/b allotted by percent of target; critical, less critical, not critical - Developmental Model of prioritizing (strategic/innovative vs annual/operational/sustainable); different "pots"	7
Yes	3
Catching people "on the way down" - before becoming homeless/proactive programming; i.e. youth program	2
Project budget vs. operating budget - not rec'ing fund shouldn't impact project.	1
Score higher for collaborative projects	1
Focus on City council goals and community feedback.	1
Difficult dilemma arts vs hot meals (value both)	1
Need a clear rubric for decision making	1
Prioritize underserved categories such as environment or animals	1
Score higher for projects which cover multiple categories	1

What are your thoughts on establishing focus years—where grant funding would be strategically directed towards a single cause or a focused set of causes.

Focus priority, plus structure for some funding for other things	3
Good if after a year meant able to get data/learn outcome and impact	1
2-year cycle	1
Possibly align focus with REACH program	1
If focus years, would depend on expectations of results and clear on decision to do so?	1
More focused funding leads to more success within those categories and city could fund smaller categories that need funding.	1

What are constituents concerned about? Biggest need?

Homelessness (although underlying issues at play also; is a symptom)	13
Mental health	3
Underserved youth	3
Transportation/Traffic	2
Ripe for gentrification	2
Affordable housing	2
Not much constituent outreach	1
Medical/Cancer	1
Safe and healthy community/parks/sports	1

City of Roseville Community Needs Assessment FlashVote Survey Results

673
Total Participants

634 of 1545 initially invited (41%)
39 others
Margin of error: ± 4%

Applied Filter:
Locals only
Participants for filter:
586



Started:
Feb 5, 2020 11:37am
Ended:
Feb 7, 2020 11:32am
Target Participants:
All Roseville

Q1 The Citizens' Benefit Fund was established in 1993 following the sale of the city-owned Roseville Hospital. In recent years it has funded about \$350,000 of grants through a competitive grant process, to improve the quality of life for the citizens of Roseville.

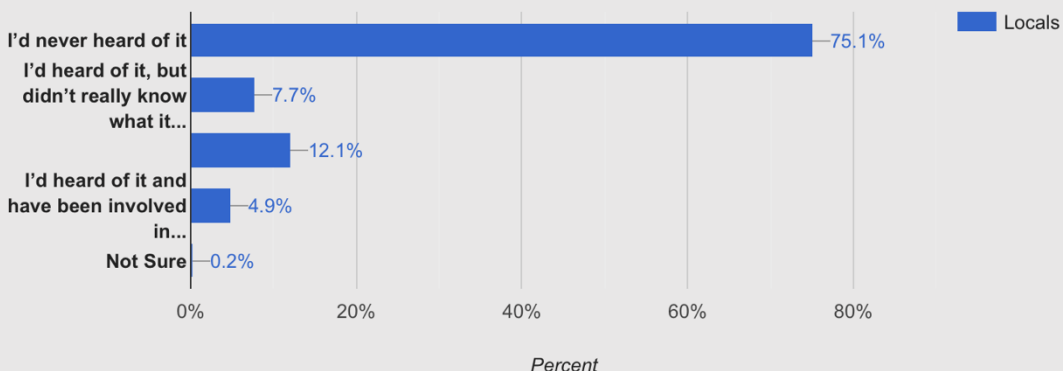
Prior to reading this, which of the following best describes what you knew about the Citizens' Benefit Fund?

(586 responses by locals)

[Touch chart bars for details]

[Show table view](#)

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Q2 Which of the following, do you think are the best ways to prioritize grant funding? (You can choose up to TWO)

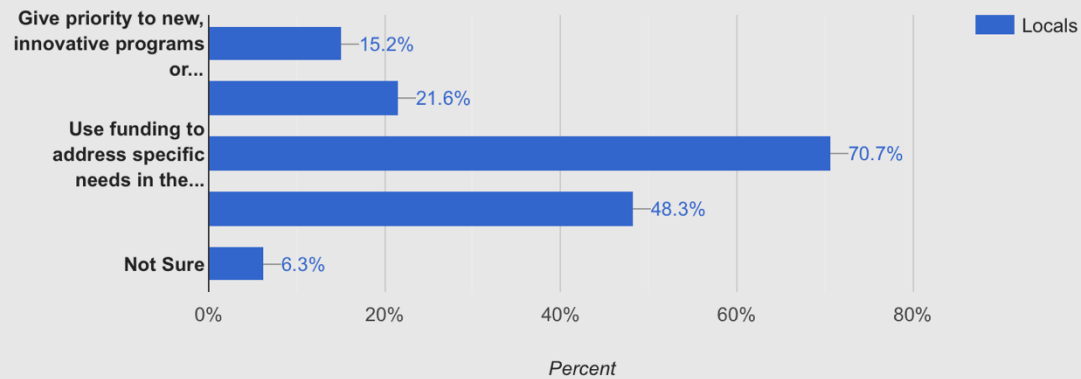
(559 responses by locals)

[Touch chart bars for details]

[Hide table view](#)

Options	Locals (559)
Give priority to new, innovative programs or organizations	15.2% (85)
Give priority to proven programs or established organizations	21.6% (121)
Use funding to address specific needs in the community	70.7% (395)
Use funding to benefit as much of the community as possible	48.3% (270)
Not Sure	6.3% (35)

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Q3 What do you think are the best ways to share the results of grant funding with the community? (You can choose up to THREE)

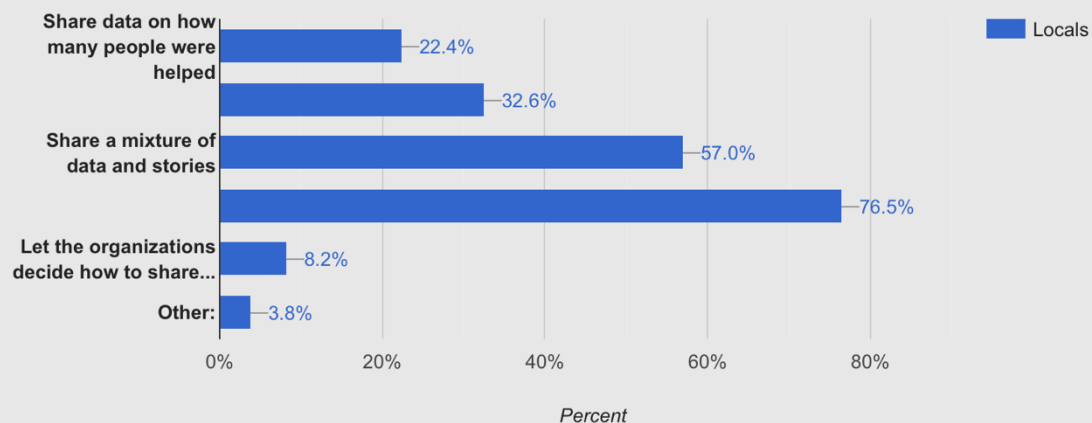
(558 responses by locals)

[Touch chart bars for details]

[Hide table view](#)

Options	Locals (558)
Share data on how many people were helped	22.4% (125)
Share stories of who and how the funding helped	32.6% (182)
Share a mixture of data and stories	57.0% (318)
Share specific data on grant outcomes (number of people served, services delivered, things built, etc.)	76.5% (427)
Let the organizations decide how to share results of the funds they received	8.2% (46)
Other:	3.8% (21)

undefined is not an object (evaluating 't.vg.filter') x



enabled use hard require
 information data need area
 soft grant great apply
 program answer share number define
 make helps important result

Unfiltered responses

Show only the first 5 responses

These are difficult to answer without more information. Before this survey, had no idea about this

Make all grant information available on the web

Mixture, but do more than outputs. X number of kids who get y says nothing about impact long-term

For things hard to quantify (i.e. ease of use of public areas) share stories, otherwise data.

Think that there are a myriad of answers to this type of question!

And HOW to apply for the grant.

Transparency is important!

May not be "number of people helped" but maybe "number engaged/enjoying". Imagine art or music for

Share data on city website and continuously improve upon success metrics

Ask for specific need and require proof of spending as requested.

Publish a final report on the results of the program.

Would be great to know details of how the funds are spent. This is a great fund and opportunity.

add a new recipient and drop a former applicant every year so the fund stays vibrant

Both hard & soft data are important; hard data helps define reach & soft data helps define effect

Require some sort of longitudinal data follow up. Especially for any group that applies 2 times

all of the above

Independent audit

Never heard of this program

Enabling achievements--what indirect benefits were enabled as a result

Q4 Which of the following results would you most like the Citizens' Benefit Fund to achieve for Roseville? (You can choose up to THREE)

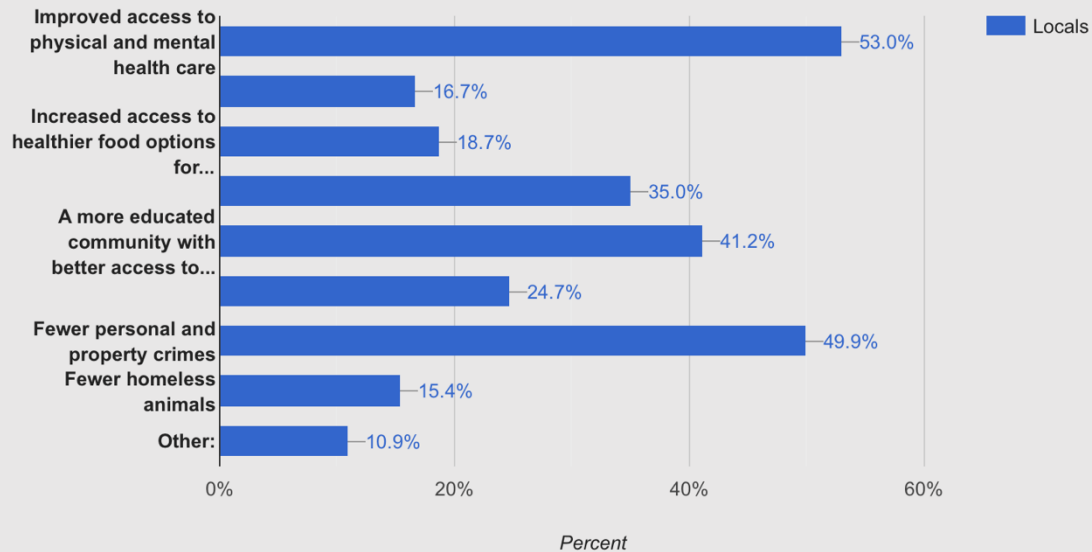
(551 responses by locals)

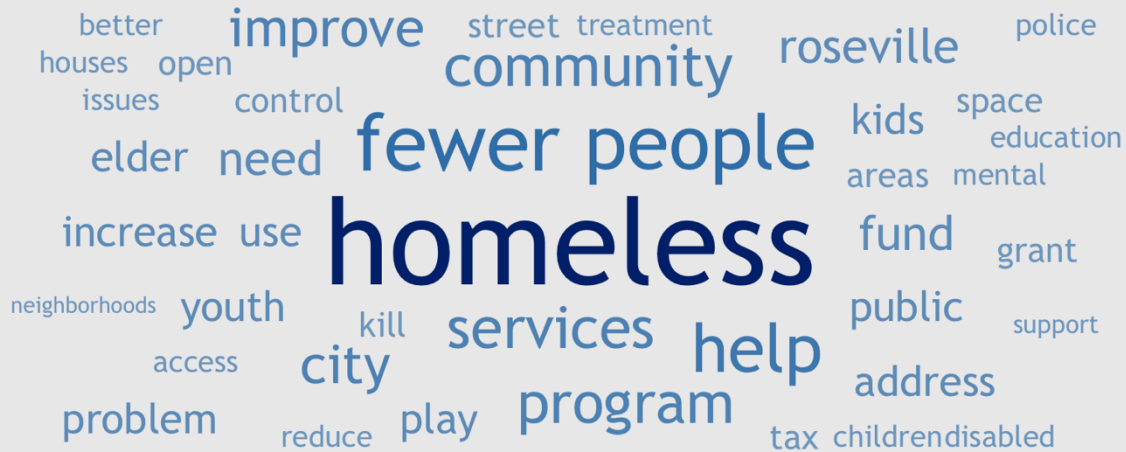
[Touch chart bars for details]

[Hide table view](#)

Options	Locals (551)
Improved access to physical and mental health care	53.0% (292)
A kinder, more accepting and inclusive community	16.7% (92)
Increased access to healthier food options for lower income communities	18.7% (103)
Improved access to housing for all	35.0% (193)
A more educated community with better access to vocational training	41.2% (227)
Thriving arts and cultural events	24.7% (136)
Fewer personal and property crimes	49.9% (275)
Fewer homeless animals	15.4% (85)
Other:	10.9% (60)

undefined is not an object (evaluating 't.vg.filter') x





Unfiltered responses

Show only the first 5 responses

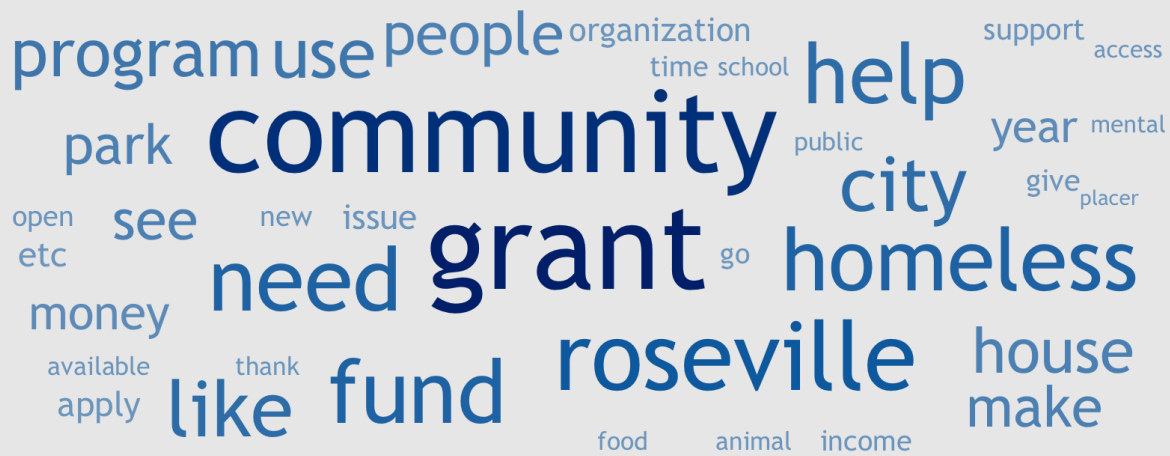
Fewer Homeless People
More active homeless assistance
Fewer homeless people in town
Youth services
Engaging children through play/recreation to reduce childhood anxiety, depression and suicide rates
Fewer homeless people
Educational opportunities for youth
More funding for adventure club at the schools
more public spaces
Targeted giving to those the most in need
homeless problem
Help with the homeless problem
Increase the number of K9 Teams on the Roseville PD
Support of low income children
We need shopping and gas i. W Roseville
Senior elder care programs housing
invest in red-light cameras and speed control.
Don't spread funding out so thinly the impacts are no noticeable
Improve Accessibility (sidewalks, talking crosswalk signals) Grants to improve the city permanently

More police services
Fewer homeless people come to mind, but that may open a can of worms!
more police
LOWER TAXES!!!! No utility bill increases
Fewer homeless
Homeless population getting worse
Joint cooperative programs with other communities, to bring people together.
Fewer homeless people
Reducing homeless problem
Addressing various needs that can change each year based on annual community input
Address defined community needs identified by applicants
All of the above are handled by other programs. This fund would be redundant
Fewer homeless people
fewer homeless humans
Services for adults with developmental and intellectual disabilities
helping the homeless than want help
Fewer homeless people
expand hours for public libraries
get rid of the Republicans
Use to offset potential tax increases
How about using for homeless issues...the city seems to ignore their homeless issues
Help for the homeless
Use the funds to start beautifying areas the City has let deteriorate: Baseline Rd and Douglas Blv
fewer homeless people
For children! Put shade awnings in parks so kids can play outside!!! Makes them healthier!!!!
improved transportation for the elderly
More access to programs for learning disabled

Decrease homelessness through drug treatment and mental health services
efforts to help connect us as community to be better as a whole, better sharing, more supportive
Address the homeless situation so our natural areas are not destroyed
Services that improve quality of life for the underserved; including the elderly.
Help The Homeless re-enter
Outreach workers for the homeless/mentally ill
Cleanup Theiles Manor and Roseville Heights Neighborhoods and boost positive youth outreach programs
Kill the rats!
Roseville centered. No city or county program
Build/create systems to get homeless off the streets and functioning in the community!
Promoting play and outdoor education for young kids
Small organizations benefiting kids or neighborhoods.
help the youth in the community thrive
Wider roads. Fewer houses.

Q5 Any other comments or suggestions about community needs or grants?

(114 responses by locals)



Unfiltered responses

Show only the first 5 responses

We need to focus on homelessness, mental health & drug addiction! It leads to property crime, diminished quality of life in the community, etc.

Open forum to discuss issues w residents. M

In the mid-1990's - Placer County HHS had a full-time staff person to liaison and assist the non-profits that focused on homeless populations and those at risk. I was that staff person!

More education about what it is and what it can do. Answering who should get the money seems lame in this survey. There should be some kind of proposal review and approval process that is transparent.

I do t believe that grants should be used towards business, that's what loans are for. Businesses assume a profit to repay loans. Grants should be used toward non-profit only and I. This instance towards something that Roseville is lacking which looks to be homeless assistance.

Let people vote on what gets done, and not a few that gives to the same over and over

Roseville is one of the best communities in California

The grants should be used to benefit the community, not to attract a group of outside people looking for a handout.

Who decides on the grant findings and how does the community get involved in that process. Not a comment, but a question :-)

Find funding solutions to widen I-80 into Sacramento. I know the majority of it lies in Sac County, but if something could set-up like the placer transportation authority that would be most beneficial.

we need to see some new models that humanize and empower aid recipients, e.g. allow food recipients to choose foods that they have facilities/knowledge to prepare, and fit in their ethnic diet, instead of being handed a generic bag of food. Low-income parents need to be included in choosing for their children, instead of marginalized. Build up the family, help them make choices, instead of telling them "if you are low-income, you obviously are incapable or unwilling to make appropriate choices for your children."

Not sure if these grants come with strings or to whom they are aimed. Greater publicity would be helpful in alerting the Roseville community of its existence and availability.

Grants should be granted for start-up, small business that is in Placer county

I'm a fan of the Tiny House communities going up around the nation and think helping our homeless and/or food insecure military vets should be a priority.

I like that you prioritize by issue type because if you just let us all vote on who gets a grant, people's answers would be biased toward their friends. We should do what works best, not what gives us the greatest political benefit.

I think that departments within the City of Roseville should NOT be allowed to apply for this very limited funding. The non-profit community has such limited resources that it is unfair for them to have to compete with the City programs. The City should be planning for these issues within the City Budget.

Apply the grant monies where it will help our community and it's residents. Look to new, innovative applications that will continue to move Roseville into the future

I am very concerned about the building of large complexes, i.e., new kaiser, adventist complex, the new health club, etc. We are being charged for water and asked to conserve water, yet you build complexes that take more water from residents. You want us to take away grass, which takes away oxygen. I am seriously concerned about decisions made by the council. Meadow Oaks has to wait for permit parking so Oakmont students won't be inconvenienced, even though they don't pay taxes. So we have to endure a crowded neighborhood until the end of the school year. These are just a couple of issues that do not make sense. I have tried on several occasions to be appointed to a board for Roseville, but I guess my resume does not compare to the residents that have been appointed. You would think that 28 years in the air force reserves and 41 years with the State of California are not enough, and processing remains from 9/11 and the thousands of dollars in charitable donations are not enough. Thank

Aging community members are struggling to afford housing medical ins and eat! We need more affordable places or assistance programs that are easy to qualify for and are prompt in payment!

Roseville is a great community, all outcomes from these funds should make it better and greener

What helps the community best is always going to be a matter of personal perspective. If you are lower income and struggling you desired results will likely include outreach and support. If you are middle to upper income it is more likely you will strive for better traffic flow, cleanliness of the community, etc. Regardless, I believe the voting questions are going to not directly appeal to everyone because most people are not going to regard the questions purely from a community perspective but through a personal perspective. "What does that grant and its results do for me?" rather than "What will that grant do for the betterment of the entire community regardless of income/social bracket?"

Housing for low and mid-level incomes must be a priority for the community.

I would like to see more policing of open spaces. Too many people trashing bike paths and walk ways. Could we get more trash cans put around town.

We need more culture and arts in Roseville.

I love that we donate, as a city, to organizations that help feed, house, etc. but I'd like to see this money going toward permanent improvements in our city for accessibility AND organizations that address the root causes of homelessness, poverty, etc. It's great to feed people (and we should do that) but let's help them get established and be able to feed and house themselves long-term.

I'd also like to see fewer homeless animals.

Develop a large soccer complex for tournaments with bathrooms and food available (could even be food trucks). This could be self supporting and bring more business to Roseville- motels, restaurants, etc. Soccer clubs could run /design it with City cooperation. My grandkids when living here went to Reno and down the valley for tournaments. Now living in Idaho they are coming to Davis for a tournament in May. This could be a big draw.

Publicize on the City of Roseville emails who got the grant, and what organization plans to do with the grant.

The CBF is such an important grant. Thank you for continuing its funding. Roseville citizens benefit significantly from its careful distribution.

Use the money to prevent utility bill increases for all!

Think that Roseville City does a great job with community needs.....maybe establishing a committee to see what are the needs of the community would be a start, which would by definition would evolve over time!

Leaving in this globally-connected world with mass online access to information, there should be not a problem to keep community aware how the funds are spent and how should be spent better by timely surveys...

thanks for letting us know about this.

Do not ignore programs and events that enhance the "Roseville experience" for those choosing to engage. Serving the needy and underserved should not be the only focus of grant funds.

More education/ on the job traing and job readiness/ apprenticeships opportunities for low income and homeless. There are jobs out there but without experience or training they won't hire people. I've tried for the past 9 years with no luck.

Grants should be given to those with the best results, do not give to existing organizations just because they exist. Provable results are needed, otherwise you end up wasting the money by giving to the guy with the next idea.

maybe just eliminate the Grant Fund, and addit back into the capital improvements fund and improve the infrastructure of Roseville for future generations.

Thank you for supporting the community with grants. Please choose a mix of new and established programs and spread the funds across a broad spectrum (rather than putting all the \$\$\$ in one basket, so to speak). Plant lots of seeds and see what develops.

The needs for alternative public transit options like maybe volunteer programs that could help disabled and seniors get to work and appointments

Attention to Communities that are in the least recognized, ie: middle income neighborhoods. As in, cleaning up and improving the edges of these communities of debris/trash, broken concrete/blacktops, trash cans and dog bag & trash posts that collect because they are on the cusp of vacant properties, parks, greenspaces, etc, ie: pathways, sidewalks, curbs, plantings... Also enforcing abandoned and unregistered vehicles on residential and business properties. AND lowering the speed limits on several roadways that

Give us monthly reports on grant effectiveness and why
Use the funding to assist the homeless relocate or help to a shelter
Education on how to apply and to what extent the community can be improved by this finding opportunity.
Affordable housing for young single, elders and people in public service jobs.
Allow the community to vote on projects.
Homelessness seems to be increasing. Sacramento County seems to have a worse problem than South Placer. Therefore, would it be wise to join with Sacramento County and City to share the cost of finding solutions that help both areas? Can we put housing in places where work could be available to pull these people back from destitution.
Housing is a huge issue all over Roseville. Anything that can be done to help with this issue is worth pursuing.
Stop babying homeless, put in mental facilities or jail....
Additional Police where needed including Home Depot as recurrent theft is an issue.
I think the issue of homelessness and real solutions to get people off the streets and helped should take the utmost priority. No one should be hungry or sleep in the freezing cold and rain or blistering heat on the streets
I think the survey would be better if we could rank all choices of grant recipient categories. Survey too simplistic. Also more information on grant details would help decision of survey response. Amount of grant, recipient reporting requirements, one time grant or only apply once every x years, current grant recipients.
It should be used for needed projects & services that don't have general funding. Something that will help the community that otherwise wouldn't happen.
Thank you. I would be interested and willing to serve on the selection committee.
More clarity on process of how awards are determined
More enforcement of speed limits in west Roseville
List Grant requests and have feedback from Community comment on pending proposals prior to awarding grants
Let's make sure everyone is housed and fed, with access to mental health services, before turning our attention to higher items on Maslow's hierarchy of needs.
I would like to learn more about the \$330k that has already been distributed.
You should promote it widely on social media to schools and nonprofits.
Please do not use the money for homeless programs.
Do not use to encourage more homeless to stay without trying to lift themselves out.
It makes sense for a multi year grant to include an increasing emphasis on helping the organization to become more self sustaining on their own fundraising.

I would love to have Roseville gain a reputation for being a place where people can Live safely. Maybe not fancy, but a roof, food, safety.

The grants should not be the primary source of funding for the entity applying for them. This creates an abusive situation where a nonprofit operating on a shoestring depends wholly on the city for its existence. It should have a broader donor base and not put elected officials in a no-win situation just because they have not diversified their funding base. If it's a great idea, then more funding sources than the city would jump on board; otherwise the nonprofit leverages ties with city council who are craving positive publicity to skew the vote.

As I have never heard of this program and have lived in Roseville since 2005, I'd love to where the funding has been given in the past. Is there a compilation of data available?

Maintain what makes Roseville the warm, welcoming community it's been while managing future growth and not forgetting the history that created this community..

as in much of California, Roseville's homeless (human) population is getting more visible and causing environmental problems with waste in our community.

Affordable housing affects all ages and it is scarce as hen's teeth. That should be a major use of grants.

Ones the also benefit rare medical diseases in the community would be nice.

we need more free activities for after school kids and skill training we need to be their for our kids to keep them safe from drugs and falling into crime we kids have mentors they are more likely to not to fall victims to drugs which lead to crime

Limit the number of times an organization can receive grant funding. They should not be dependent on the funds for their organization. They should be able to justify how they can continue their efforts when the grant funds are depleted. If organizations are granted funds every year, it makes it difficult for new organization to receive funding. Maybe allow an organization to apply every other year instead of every year.

Crime seems to be increasing! I don't feel as safe as I use to in Roseville.

fix the roads, more street traffic lights, get rid of Republicans, school board members need to be elected by district like the city council

Typically when the City asks for Input, they have already made a decision...they just like to placate us citizens!

There are certain areas like west Roseville and the Douglas Blvd corridor that are a mess. What about investing in these areas? There's trash everywhere, dead plants, broken sprinklers, and syringes on the ground.

Anything that promotes cultural diversity and global citizenship

I would like to be able to follow the grant process through how much is available each year, who applies, how much each organization gets and what benefit was achieved by the winning organization

Doing something about the increasing homeless population especially in our parks

We need to be mindful of how the traffic, homeless, parking has changed the quality of life for those that can't easily get around. Moms with more than 1 child- walking so far to get to parks or shopping. Bathrooms not accessible Or dirty these days, seniors can't walk far- available parking not close to shopping, or things they used to do. Many of us now have to stay home and can't use the trails, etc like we used too- you are creating a whole other problem with the community.

This is a great program, love it and how it comes gives back to the community. Your grant process is very labor intensive and time consuming is the only challenge.
No
Grants to improve safety for our police. Maybe education on all the ways the police help our community.
none
I would like Christian organizations and other religious organizations to be eligible for grants. Not sure if they already are or not.
Help or assist the most people possible. The needs of the many outweigh the needs of the one.
+ any efforts that help build momentum over time as 'in the long run' thriving (economy) + trade & arts community vs hand to mouth
I would like to see this grant program serve non-profits of all sizes that bring diverse enhancement to the quality of life for the most citizens of Roseville.
traffic is a community problem
Give people the support they need, especially in times of need, for them to be able to succeed. Further, lead by example (which is why I included "less homeless animals" as an important goal) rather than with rhetoric only. Overall, I believe we do a good job here in Roseville doing these things (using FlashVote being a prime example to seek community feedback). Keep up the good work. Keep things transparent (reporting+end user stories as mentioned before) and again, lead by example!
Thank you for reaching out for input. In my experience Grant money is valuable for making changes in the community.
The Maidu Museum used to have monthly Art presentations and talks. It would be wonderful if artists from a variety of Ethnic and cultural groups could be brought in to exhibit their work and make presentations.
Cleanup Theiles Manor and Roseville Heights neighborhoods. Build a community center in Theiles to help provide a location for youth outreach programs and other positive neighborhood ventures/meetings.
Can the results of the grants on the community be published as to outcomes? Or publish where the results can be found online. Thank you.
Rat population in the City of Roseville is out of control. With loss of snakes to control the rodent population, the rats will spread disease.
Increased in housing does not solve drug and alcohol problems, particularly for the homeless and mentally ill
Eliminate homeless issues
I am animal rights Conservative. When I see animals at the SPCA it breaks my heart. I'd like to see the SPCA get more funding so they can take care of more abused animals. Don't get me wrong, I have feelings for the homeless and the poor, but I think that sometimes we as a society don't treat our animals the way they should be treated.
With the high cost of housing, a grant program for young struggling families; providing healthy food choices, educational needs, and health care needs.
I heard it has recently become more difficult and restrictive to receive this grant.

Do not hire new positions like high priced boss with benefits and retirement. Instead use established director and employees to figure out how to channel the money. I feel we need more code enforcement for excessive street parking in newer neighborhoods, people should park in garages not on street or park in house driveway.

Prayers for wise choices

Reaching out to known 501(c)(3)s in the area, like Roseville Community Preschool. I am no longer at the school, but it has strong community support among its alumni and current families; would love to apply for a grant if they knew about it, I bet!

Nope

Full inclusion for people with disabilities!! Especially in Roseville schools!!!

Better publicize grant opportunities and how to apply.

Make the process easier.

Traffic is the number one complaint I hear from my friends and neighbors. Stop funding pet projects and fix our transportation system. You grant building permits with no real regard to traffic impacts. Build the roads and schools first!

Be sure information about grants gets to majority of citizens, maybe through emails. I have no idea what's available nor where to go to get the information.

Unemployment/under-employment

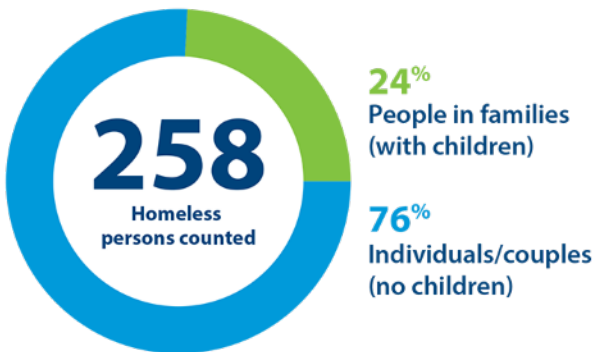
By "improved access to healthcare" I'm meaning, specifically, that we have a dearth of doctors available for our growing community. It often takes 4-6 months for new patients to see the doctor for the first time, and referral timeframes are prolonged. This appears to be an issue related to growth/expansion without the similar growth in medical service providers. I love all the new hospitals; this helps. But we need to find a way to attract talented medical professionals.

Homelessness 2019



2019 Point-in-time count results

Each January, Placer County and its partners survey homeless individuals. A point-in-time count is only a snapshot reflecting those persons identified as homeless for one night and is not an absolute number. Many people move in and out of homelessness throughout a year.



118 Sheltered

46%



140 Unsheltered

54%



Chronically homeless

46%*

Defined as currently homeless for a year or more OR 4+ episodes of homelessness in the past 3 years totaling a year or more, AND a disability of long, continued duration.

Most said they lived in Placer County at least 1 year before becoming homeless:

75%*

25%*



38%*

With a serious mental illness



29%*

With a substance abuse disorder



24%*

Who have lived in foster care or group homes



10%*

Currently fleeing domestic violence, sexual assault, dating violence or stalking situation



11%*

Veterans



HOMELESS RESOURCE
COUNCIL OF THE SIERRAS

Percentages marked with an asterisk (*) are calculated on the total number of responses received to the associated question(s) on the survey. Limited information was collected for people who were observed could not be interviewed.

03-26-19

Roseville Community Consensus Workshop

Sticky Wall

December 10, 2019



Green stickies represent column headings/descriptors created by workshop participants to classify ideas which follow in yellow/blue/orange (the latter colors have no significance other than distinguishing one column from another).

City of Roseville: Community Needs Assessment

Workshop: How to Measure Impact

Draft Goal:

Test A: Is the goal a result?	Action-oriented goals are tasks, projects, milestones, activities. They are hard to meaningfully measure. We want results-oriented goals because they are statements about how something will change for the better (<i>e.g. decrease traffic fatalities; increase graduation rates; keep projects on-time and within budget, etc.</i>).
<i>If no, write down the most important intended result(s).</i>	
Test B: Are there any weasel words?	Weasel word examples: <i>Agile, benefits, capacity, diversity, efficiency, holistic, inclusive, livability, productivity, sustainability.</i>
<i>If yes, replace the weasel words with plain language and write the new result(s):</i>	
Weasel words:	Meaning:
Test C: Is the goal multi-focused?	Multi-focused goal example: <i>Customers get their orders within the time they expected, for the cost they expected, and in as few steps as they expected.</i>
<i>If yes, write a separate result statement for each one area of focus:</i>	
Rewrite the draft goal as a results-oriented goal with no weasel words and a single focus. If you split out a multi-focused goal into more than one goal, write them all here.	
Rewrite the results-oriented goal here.	

List sensory evidence of the result (<i>When result is attained, we will see/hear/smell/taste/touch...</i>)				
Sense:		Description of evidence:		
See				
Hear				
Smell				
Taste				
Touch				
Create Potential Measures:		A performance measure is a quantification that provides objective evidence of the degree to which a result is occurring over time . <i>*See next page for strength and feasibility ratings.</i>		
Potential measure		Strength	Feasibility	Select?
1.				
2.				
3.				
4.				
5.				
Check the Bigger Picture: What could be the unintended consequences of achieving this result (<i>e.g. diverting resources away from other strategic activities, minority groups could be disadvantaged, etc.</i>)? Are there cause-and-effect or companion-or-conflict relationships to other results? What other results might you need to measure to help avoid these consequences?				
Name and describe the measures:				
Measure Name:		Measure Description:		

If our grantees were providing services and reporting on the above measures, would we know our City of Roseville community is getting healthier?

Rating	Strength	Feasibility
1	The measure could signal changes in the opposite direction to how the goal is actually tracking.	Don't have the data and it is impossible to get the data, at any cost.
2	The measure could signal changes that correlate poorly with how the goal is actually tracking.	Don't have the data and getting it is definitely more costly than we can afford.
3	The measure could signal changes that don't correlate strongly with how the goal is actually tracking.	Don't have the data, and while we can afford to get it, the benefit isn't worth the cost of getting it.
4	Could rely in part on this measure, but other measures are needed to track the goal.	Don't have the data, but we can afford to get it and the benefit is worth the cost of getting it.
5	Could rely mostly on this measure, but another measure would be useful to track the goal.	Have some of the data, and/or can easily get all the data needed.
6	Could rely solely on this measure as sufficient evidence to track the goal.	Have most of the data and can easily get the rest.
7	Could rely solely on this measure as complete evidence to track the goal.	Already have the right data for this measure.

For more information on developing performance measures, see [Practical Performance Measures](#) by Stacy Barr.

Healthier Community								
Neighborhood & Physical Environment	Education	Food	Community & Social Context			Health Care System		
Improved access to safe, affordable housing for all	More vocational education and training opportunities for all ages	Increased access to healthier food options for lower income communities	Kinder, more inclusive & connected community			Improved access to quality arts & cultural resources for all	Improved physical, mental and behavioral health, and wellness.	
Fewer police call-outs for domestic violence, sex assault and trafficking	More educated and accepting	Nutritional food options/access for lower income communities	Increased community volunteering	Acceptance of all community members	Connection to people & information in the community	Proposed outcome increases organization capacity to provide relevant services	Improved Mental Health (well-being)	Improved physical health
How many people retain housing	More engaged & equipped parents	Fewer kids on free- and reduced-priced lunch	Donated items	Participants at community activities reflect local demographics	Increased visitors to Roseville online resources (website/social media/flashvote)	Target audience meets or exceeds goal	Less drug overdoses	Lower hypertension rates
Fewer requests for utility assistance	Vocational training for anyone interested in work		Donated time	New attendees at community activities	Increased relational connections with others in the community	Increase of # of quality activities or events delivered	Less DUI arrests	Lower diabetes rates
Increased rental for units that accept pets	Higher HS Graduation rates		Donated funds		Increased attendance at community events	Increased enrollment or attendance in events and/or activities	Less incidences of domestic violence	Lower obesity rates
Reduction in requests for homeless prevention shelter & housing	Increase in continuing education beyond high school					Creation of new artistic works that are reflective of the community & add value to the environment	Less suicide attempts	Fewer ER visits
	Decrease in unemployment overall							
	Decrease in unemployment among specific groups - disabled, minority, etc.							

Menu of Measures

Target: Healthy Community

Measures represent ways in which grants/grantees efforts toward achieving priorities may be measured and tracked toward the Healthy Community target.

More vocational education training and training opportunities for all ages

- ☐ More educated and accepting
- ☐ More engaged & equipped parents
- ☐ Vocational training for anyone interested in work
- ☐ Higher high school graduation rates
- ☐ Increase in continuing education beyond high school
- ☐ Decrease in unemployment overall
- ☐ Decrease in unemployment among specific groups – disabled, minority, etc.

Community/Social Context:

Kinder, more inclusive & connected community

Increased Community Volunteering

- ☐ Donated items
- ☐ Donated time
- ☐ Donated funds

Acceptance of all Community Members

- ☐ Participants at community activities reflect local demographics
- ☐ New attendees at community activities

Connection to People & Information in the Community

- ☐ Increased Visitors to Roseville online resources (website/social media/flashvote)
- ☐ Increased relational connections with others in the community
- ☐ Increased attendance at community events

Neighborhood & Physical Environment

- ☐ Fewer police call-outs re: domestic violence, sex assault, and trafficking
- ☐ How many people retain housing
- ☐ Fewer requests for utility assistance
- ☐ Increased rental for units that accept pets
- ☐ Reduction in requests for homeless prevention shelter & housing



Food

- ☐ Nutritional food options/access for lower income communities
- ☐ Fewer kids on free- and reduced-price lunch

Health Care System

Improved Mental Health (well-being)

- ☐ Less drug overdoses
- ☐ Less DUI arrests
- ☐ Less incidences of domestic violence
- ☐ Less suicide attempts

Improved Physical Health

- ☐ Lower hypertension rates
- ☐ Lower diabetes rates
- ☐ Lower obesity rates
- ☐ Fewer ER visits

Community/Social Context:

Improved access to quality arts & cultural resources

- ☐ Proposed outcome increases organization capacity to provide relevant services
- ☐ Target audience meets or exceeds goals
- ☐ Increase of # of quality activities or events delivered
- ☐ Increased enrollment or attendance in events and/or activities
- ☐ Creation of new artistic works reflective of the community & add value to the environment



COUNCIL COMMUNICATION

CC #: 0730

File #: 0200

Title: Financial Update

Contact: Scott Pettingell 916-746-1306 spettingell@roseville.ca.us
Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 7.1.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council receive a financial update presentation.

BACKGROUND

Given the fiscal uncertainty resulting from the COVID-19 pandemic, staff will provide Council with financial updates on topics including sales tax revenue, the City's pension and retiree health long-term liabilities and other context for the proposed 2020-21 budget.

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

Not applicable.

Respectfully Submitted,

Scott Pettingell, Budget Manager

Dennis Kauffman, Assistant City Manager/Chief Financial Officer

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, likely representing the name Dominick Casey.

Dominick Casey, City Manager



COUNCIL COMMUNICATION

CC #: 0737

File #: 0215

Title: User and Regulatory Fee Update Delay

Contact: Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 7.2.

RECOMMENDATION TO COUNCIL

Staff recommends that Council approve a motion to delay approval of the updated User and Regulatory Fee booklet, which includes rate changes that would have been effective as of July 1, 2020, until further notice, given the state of the economy due to the COVID-19 pandemic.

BACKGROUND

The City's schedule of user and regulatory fees identifies fees for services and activities provided at the request of, or on behalf of, a single party as opposed to the public at large. The fee schedule is intended to be reviewed annually, with staff conducting bi-annual studies to identify the City's cost of providing fee-related services based on current labor rates and service delivery methods. In interim years, fees are authorized to be adjusted based on the CPI change from October to October of the immediately preceding year. User and regulatory fees are established by the City Council.

The existing fee study was adopted on May 2, 2018 via resolution 18-116. The fees were updated for the CPI increase on May 1, 2019 via resolution 19-179. The plan for the upcoming fiscal year was to bring an updated fee schedule, based on the results of a user and regulatory fee study completed in March 2020, to Council in April 2020, with rate changes effective July 1, 2020. But, due to the unprecedented uncertainty that the community is facing due to the COVID-19 pandemic, staff recommends Council delay approval of the fee study and the associated fee changes until further notice. After staff returns to Council at a later date for approval of the fee study, the fee changes would be effective 60 days after Council approval.

FISCAL IMPACT

Assuming normal service and activity levels, the fee changes recommended for delay would generate approximately \$438,000 per year across all City funds and departments.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. The request meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Dennis Kauffman, Assistant City Manager/Chief Financial Officer

A handwritten signature in blue ink, consisting of several overlapping loops and a horizontal line, positioned above a horizontal line.

Dominick Casey, City Manager



COUNCIL COMMUNICATION

CC #: 0718

File #: 0709

Title: Housing Authority 5-Year Plan FY2020-21
Contact: Suzanne Acrell 916-774-5469 sacrell@roseville.ca.us

Meeting Date: 5/6/2020

Item #: 8.1.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council, acting as the Board of Directors for the Roseville Housing Authority adopt the attached resolution, which approves the attached Roseville Housing Authority 5-Year Plan for FY2020-21 and authorizes the Executive Director to submit the Roseville Housing Authority 5-Year Plan for FY2020-21 to the U.S. Department of Housing & Urban Development.

BACKGROUND

The Roseville Housing Authority (RHA) provides up to 702 households with Housing Choice Voucher (HCV) rental assistance funded through the U.S. Department of Housing and Urban Development (HUD). These 702 vouchers include vouchers specifically for non-elderly disabled (NED) households, veteran households under the Veterans' Affairs Supportive Housing (VASH) Program, and households with persons with disabilities who are transitioning out of institutional and other segregated settings, homeless, or at risk of becoming homeless under the Mainstream Program. The HCV rental assistance program works to ensure that very low and extremely low-income households are able to afford rent and live in safe, decent housing.

Pursuant to the 1998 Quality Housing and Work Responsibility Act (QHWRA), all housing authorities must submit a 5-Year Plan every five years and an Annual Plan each year between 5-Year Plans. HUD designed the Agency Plan to reflect the current and future goals of all housing authorities. To serve the needs of very low and extremely low-income families for the next five years, the goals of RHA are as follows:

1. Continue to expand the supply of assisted housing;
2. Improve the quality of assisted housing;
3. Increase assisted housing choices;
4. Affirmatively further Fair Housing; and
5. Collaborate with neighboring housing authorities to optimize administration of the HCV Program.

The draft 5-Year Plan is required to have a 45-day local comment period before RHA has a public

hearing to adopt the 5-Year Plan. The 45-day comment period was noticed and commenced on February 28, 2020, closing May 6, 2020. To date, staff has not received any comments from the public regarding this item. Housing Authority staff provided RHA's Resident Advisory Board (RAB) members with a copy of the draft 5-Year Plan for review and comment. If staff receives comments from the RAB, which are due by May 6, 2020, their comments will be included as an attachment to the final 5-Year Plan. The RAB members have reviewed the previous four Annual Plan submissions to HUD and have supported RHA's goals and its progress in meeting them.

Subject to the City Council's action on the proposed 5-Year Plan, as the Housing Authority Board, housing staff anticipates submitting the final document to HUD on May 7, 2020.

FISCAL IMPACT

This action will not have any fiscal impact to the General Fund.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. The Roseville Housing Authority 5 Year Plan meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Suzanne Acrell, Housing Analyst

Laura Matteoli, Economic Development Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 1-20

RHA 5-Year Plan 2020

HOUSING AUTHORITY OF THE CITY OF ROSEVILLE
RESOLUTION NO. 1-20

RESOLUTION OF THE HOUSING AUTHORITY OF THE CITY OF ROSEVILLE
AUTHORIZING THE EXECUTIVE DIRECTOR TO SUBMIT THE ROSEVILLE HOUSING
AUTHORITY FIVE YEAR PLAN AND ANNUAL PLAN FOR FISCAL YEAR 2020-21 TO
THE U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT ALONG WITH
ALL THE REQUIRED CERTIFICATIONS, DISCLOSURES AND RELATED DOCUMENTS

WHEREAS, the Department of Housing and Urban Development (HUD) requires all housing authorities to submit an Agency Plan, which includes a Five Year Plan and an Annual Plan; and

WHEREAS, staff has prepared the Five Year Plan and Annual Plan; and

WHEREAS, the Housing Authority has reviewed the plans;

NOW, THEREFORE, THE HOUSING AUTHORITY OF THE CITY OF ROSEVILLE
DOES HEREBY RESOLVE that:

1. The Roseville Housing Authority Five Year Plan and Annual Plan for Fiscal Year 2020-21 is hereby approved.
2. The Executive Director is authorized to submit the Roseville Housing Authority Five Year Plan and Annual Plan for Fiscal Year 2020-21 to the U.S. Department of Housing and Urban Development along with all required certifications, disclosures, and related documents.

PASSED AND ADOPTED by the Housing Authority of the City of Roseville this
_____ day of _____, 20____, by the following vote on roll call:

AYES AUTHORITY MEMBERS:

NOES AUTHORITY MEMBERS:

ABSENT AUTHORITY MEMBERS:

Chair

ATTEST:

Secretary

5-Year PHA Plan (for All PHAs)	U.S. Department of Housing and Urban Development Office of Public and Indian Housing	OMB No. 2577-0226 Expires: 02/29/2016
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Purpose. The 5-Year and Annual PHA Plans provide a ready source for interested parties to locate basic PHA policies, rules, and requirements concerning the PHA’s operations, programs, and services, and informs HUD, families served by the PHA, and members of the public of the PHA’s mission, goals and objectives for serving the needs of low- income, very low- income, and extremely low- income families

Applicability. **Form HUD-50075-5Y** is to be completed once every 5 PHA fiscal years by all PHAs.

A.	PHA Information.																																					
A.1	PHA Name: Roseville Housing Authority PHA Code: CA128 PHA Plan for Fiscal Year Beginning: (MM/YYYY): 07/2020 PHA Plan Submission Type: ☒ 5-Year Plan Submission ☐ Revised 5-Year Plan Submission Availability of Information. In addition to the items listed in this form, PHAs must have the elements listed below readily available to the public. A PHA must identify the specific location(s) where the proposed PHA Plan, PHA Plan Elements, and all information relevant to the public hearing and proposed PHA Plan are available for inspection by the public. Additionally, the PHA must provide information on how the public may reasonably obtain additional information on the PHA policies contained in the standard Annual Plan, but excluded from their streamlined submissions. At a minimum, PHAs must post PHA Plans, including updates, at each Asset Management Project (AMP) and main office or central office of the PHA. PHAs are strongly encouraged to post complete PHA Plans on their official websites. PHAs are also encouraged to provide each resident council a copy of their PHA Plans. <i>Copies of the PHA Plans may be obtained at the Agency’s main office:</i> 316 Vernon Street, Suite 150 Roseville, CA 95678 <i>5 Year and Annual PHA Plans are also available on the website at ww.roseville.ca.us/residents/affordable housing</i> ☐ PHA Consortia: (Check box if submitting a Joint PHA Plan and complete table below) <table border="1"> <thead> <tr> <th rowspan="2">Participating PHAs</th> <th rowspan="2">PHA Code</th> <th rowspan="2">Program(s) in the Consortia</th> <th rowspan="2">Program(s) not in the Consortia</th> <th colspan="2">No. of Units in Each Program</th> </tr> <tr> <th>PH</th> <th>HCV</th> </tr> </thead> <tbody> <tr> <td>Lead PHA:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Participating PHAs	PHA Code	Program(s) in the Consortia	Program(s) not in the Consortia	No. of Units in Each Program		PH	HCV	Lead PHA:																							
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				PH	HCV																																	
Lead PHA:																																						

B.	5-Year Plan. Required for <u>all</u> PHAs completing this form.
B.1	Mission. State the PHA's mission for serving the needs of low- income, very low- income, and extremely low- income families in the PHA's jurisdiction for the next five years. The mission of the Roseville Housing Authority is to provide opportunity for decent, safe, and sanitary affordable housing to very low and extremely low income families in Roseville and Rocklin by: • Effectively administering Housing Choice Voucher rental assistance funds • Encouraging family self-sufficiency • Collaborating with homeless housing service providers and other local jurisdictions • Delivering a high level of customer service The mission shall be accomplished by a fiscally responsible, creative organization committed to excellence in public service.
B.2	Goals and Objectives. Identify the PHA's quantifiable goals and objectives that will enable the PHA to serve the needs of low- income, very low- income, and extremely low- income families for the next five years. 1. Expand the supply of assisted housing. • <i>The Roseville Housing Authority will apply for additional VASH and Mainstream vouchers as they become available.</i> 2. Improve the quality of assisted housing. • <i>The Roseville Housing Authority will maintain its high-performer rating (SEMAP score).</i> • <i>The Roseville Housing Authority will employ project basing vouchers as a means for improving the quality of assisted housing, as it will provide greater opportunity for review and priority to vouchers in new and rehabilitated housing.</i> 3. Increase assisted housing choices. • <i>The Roseville Housing Authority will continue to encourage property owners to provide available unit information for Housing Choice Voucher holders that are searching for a rental unit.</i> • <i>The Roseville Housing Authority will monitor HAP payments monthly to ensure that at least 98% of the Annual Contributions Contract is utilized or that 98% of total unit months are leased each year.</i> 4. Affirmatively further Fair Housing • <i>The Roseville Housing Authority will provide training opportunities for staff to promote equal opportunity in housing.</i> • <i>The Roseville Housing Authority will work with Legal Services of Northern California to offer landlords fair housing training once a year.</i> 5. Collaborate with neighboring housing authorities to optimize administration of the Housing Choice Voucher Program. • <i>The Roseville Housing Authority will continue to host HCV Roundtable meetings with housing authorities in Northern California three times a year and maintain the Yahoo! User Group for ongoing communication.</i>

B.3

Progress Report. Include a report on the progress the PHA has made in meeting the goals and objectives described in the previous 5-Year Plan.

1. Expand the supply of assisted housing.
 - *Roseville Housing Authority (RHA) will apply for additional VASH vouchers if they become available.*
 - a. *PROGRESS: In addition to the 10 initial VASH vouchers awarded October 2014, RHA had the opportunity to request and was awarded additional VASH vouchers as follows:
8 awarded May 2015
8 awarded June 2016
2 awarded April 2018
5 awarded October 2018
5 awarded January 2020*
 - b. *PROGRESS: RHA initiated project-based vouchers as an option January 2017 so that all vouchers, including VASH vouchers can be placed and utilized in housing. This is particularly difficult to do with VASH vouchers and in a local housing market with less than a three percent vacancy. 30 PBV's are expected to open fall 2020.*
 - c. *PROGRESS: RHA, with the support of local service providers, was awarded Mainstream vouchers as follows:
14 awarded November 2018
11 awarded January 2020*
2. Improve the quality of assisted housing.
 - *The Roseville Housing Authority will maintain its high-performer rating (SEMAP score).*
 - a. *PROGRESS: RHA has received the high-performer rating for 15 years.*
 - b. *PROGRESS: RHA has initiated project-based vouchers as an option so that the quality of housing assisted by the program is further reviewed by RHA. In a community with a low vacancy rate, it is important to provide vouchers a priority to new and high quality housing opportunities.*
3. Increase assisted housing choices.
 - *The Roseville Housing Authority will continue to encourage property owners to provide available unit information for Housing Choice Voucher holders that are searching for a rental unit.*
 - a. *PROGRESS: RHA maintains a list of available rental units that encourages owners to utilize for available units and that is available to applicants and participants.*
 - b. *PROGRESS: RHA hosted and participated in two multi-agency landlord trainings summer 2019. RHA and Legal Services of Northern California presented at both.*
 - *The Roseville Housing Authority will monitor HAP payments monthly to ensure that at least 98% of the Annual Contributions Contract is utilized or that 98% of total unit months are leased each year.*
 - a. *PROGRESS: For calendar year 2019 RHA utilized 91% of regular HCV vouchers, 100% of NED vouchers, 91% of VASH vouchers, and 32% of Mainstream vouchers (started lease up of this new program in CY 2019). RHA is working within the budget, and in partnership with housing owners and managers, the Department of Veteran's Affairs, Placer County Adult System of Care, Placer County Whole Person Care, The Gathering Inn, Volunteers of America, and Advocates for Mentally Ill Housing to fully utilize all regular, NED, VASH, and Mainstream vouchers. While vouchers were not fully leased, over 100 percent of the Annual Contributions Contract was utilized, including use of program reserve funding.*
4. Affirmatively further Fair Housing
 - *The Roseville Housing Authority will provide training opportunities for staff to promote equal opportunity in housing.*
 - b. *PROGRESS: RHA staff attends a fair housing training annually.*
 - c. *PROGRESS: RHA hosted and participated in two multi-agency landlord trainings summer 2019. RHA and Legal Services of Northern California presented at both.*
5. Collaborate with neighboring housing authorities to optimize administration of the Housing Choice Voucher Program.
 - *The Roseville Housing Authority will continue to host HCV Roundtable meetings with housing authorities in Northern California three times a year and maintain the Yahoo! User Group for ongoing communication.*
 - o *PROGRESS: RHA maintained the Yahoo! User Group for ongoing communication and collaboration.*

B.4	Violence Against Women Act (VAWA) Goals. Provide a statement of the PHA's goals, activities objectives, policies, or programs that will enable the PHA to serve the needs of child and adult victims of domestic violence, dating violence, sexual assault, or stalking. <i>RHA supports the goals and objectives of VAWA. The RHA has policies on notification, documentation, and confidentiality including:</i> <i>requesting documentation from victims of domestic violence, dating violence, sexual assault, and stalking and maintaining confidentiality of information obtained</i> <i>prohibiting denial of assistance to an otherwise qualified applicant on the basis that the applicant has been a victim of domestic violence, dating violence, sexual assault, or stalking</i> <i>termination of assistance for victims and perpetrators of domestic violence, dating violence, sexual assault, or stalking</i> <i>notifying applicants and participants of their rights under VAWA at briefing and when denied assistance or terminated from the program</i> <i>emergency transfers, which allow participants who are victims of domestic violence, dating violence, sexual assault, or stalking to request an emergency transfer from their current unit to another unit; the Emergency Transfer Plan defines participants eligible for an emergency transfer, lists documentation needed to request a transfer, outlines confidentiality protections, describes how an emergency transfer may occur and guidance on safety and security.</i>
B.5	Significant Amendment or Modification. Provide a statement on the criteria used for determining a significant amendment or modification to the 5-Year Plan. <i>The criteria RHA uses for determining a significant amendment or modification to the 5 Year Plan is a deviation from standard operating procedures that would impact access to programs or expenditures. An example includes changes to the PHA admission or waiting list policies.</i>
B.6	Resident Advisory Board (RAB) Comments. (a) Did the RAB(s) provide comments to the 5-Year PHA Plan? Y N ☐ ☒ (b) If yes, comments must be submitted by the PHA as an attachment to the 5-Year PHA Plan. PHAs must also include a narrative describing their analysis of the RAB recommendations and the decisions made on these recommendations.
B.7	Certification by State or Local Officials. Form HUD 50077-SL, <i>Certification by State or Local Officials of PHA Plans Consistency with the Consolidated Plan</i>, must be submitted by the PHA as an electronic attachment to the PHA Plan.

Instructions for Preparation of Form HUD-50075-5Y

5-Year PHA Plan for All PHAs

A. PHA Information [24 CFR §903.23\(4\)\(e\)](#)

- A.1** Include the full **PHA Name**, **PHA Code**, **PHA Fiscal Year Beginning** (MM/YYYY), **PHA Plan Submission Type**, and the **Availability of Information**, specific location(s) of all information relevant to the hearing and proposed PHA Plan.

PHA Consortia: Check box if submitting a Joint PHA Plan and complete the table.

B. 5-Year Plan.

- B.1 Mission.** State the PHA's mission for serving the needs of low- income, very low- income, and extremely low- income families in the PHA's jurisdiction for the next five years. ([24 CFR §903.6\(a\)\(1\)](#))
- B.2 Goals and Objectives.** Identify the PHA's quantifiable goals and objectives that will enable the PHA to serve the needs of low- income, very low- income, and extremely low- income families for the next five years. ([24 CFR §903.6\(b\)\(1\)](#)) For Qualified PHAs only, if at any time a PHA proposes to take units offline for modernization, then that action requires a significant amendment to the PHA's 5-Year Plan.
- B.3 Progress Report.** Include a report on the progress the PHA has made in meeting the goals and objectives described in the previous 5-Year Plan. ([24 CFR §903.6\(b\)\(2\)](#))
- B.4 Violence Against Women Act (VAWA) Goals.** Provide a statement of the PHA's goals, activities objectives, policies, or programs that will enable the PHA to serve the needs of child and adult victims of domestic violence, dating violence, sexual assault, or stalking. ([24 CFR §903.6\(a\)\(3\)](#))
- B.5 Significant Amendment or Modification.** Provide a statement on the criteria used for determining a significant amendment or modification to the 5-Year Plan.
- B.6 Resident Advisory Board (RAB) comments.**
- (a) Did the public or RAB provide comments?
 - (b) If yes, submit comments as an attachment to the Plan and describe the analysis of the comments and the PHA's decision made on these recommendations. ([24 CFR §903.17\(a\)](#), [24 CFR §903.19](#))

This information collection is authorized by Section 511 of the Quality Housing and Work Responsibility Act, which added a new section 5A to the U.S. Housing Act of 1937, as amended, which introduced the 5-Year PHA Plan. The 5-Year PHA Plan provides the PHA's mission, goals and objectives for serving the needs of low- income, very low- income, and extremely low- income families and the progress made in meeting the goals and objectives described in the previous 5-Year Plan.

Public reporting burden for this information collection is estimated to average .76 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. HUD may not collect this information, and respondents are not required to complete this form, unless it displays a currently valid OMB Control Number.

Privacy Act Notice. The United States Department of Housing and Urban Development is authorized to solicit the information requested in this form by virtue of Title 12, U.S. Code, Section 1701 et seq., and regulations promulgated thereunder at Title 12, Code of Federal Regulations. Responses to the collection of information are required to obtain a benefit or to retain a benefit. The information requested does not lend itself to confidentiality.
