CITY OF ROSEVILLE
CALIFORNIA

AGENDA
June 2, 2021

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

The meeting will be open to limited in-person attendance. To remain in compliance with the state's public health guidance, attendance will be limited to 25% of the room's capacity (15 seats) and will require 6 feet of social distancing inside and outside the council chambers. Face coverings are required and will be provided to those who don't have a mask.

Due to the limited capacity in the chambers, the public is highly encouraged to participate virtually. The meeting may be viewed on Comcast channel 14, Consolidated Communications channel 73, and AT&T U-Verse. City Council meetings are also video streamed live and are available on the City's website and YouTube channel.

Members of the public may offer public comment by phone:

Dial in Phone Number: 916-774-5353

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

THE CITY OF ROSEVILLE WELCOMES YOUR PARTICIPATION

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

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

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

discussed separately.

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

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

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

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

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

1. CALL TO ORDER

2. ROLL CALL

3. PLEDGE OF ALLEGIANCE

4. MEETING PROCEDURES

5. PRESENTATIONS

5.1. Proclamation - National Gun Violence Awareness Day - June 4

Proclaim June 4, 2021, as NATIONAL GUN VIOLENCE AWARENESS DAY and encourage all citizens to support their local communities' efforts to prevent the tragic effects of gun violence and to honor and value human lives.

CONTACT: Blair Hutchison 916-774-5266 bmhutchison@roseville.ca.us

5.2. Resolution - June Wanish

Commend June Wanish for her outstanding service and dedication to the City of Roseville, she was cherished and loved by her family and many friends, and will be missed.

CONTACT: Blair Hutchison 916-774-5266 bmhutchison@roseville.ca.us

5.3. City Response to COVID-19

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

6. PUBLIC COMMENTS

7. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Minutes

7.1. Minutes of Prior Meetings

Memo from City Clerk Technician Helen Dreyer and City Clerk Sonia Orozco recommending the City Council approve the minutes of the April 7, 2021 City Council meeting, the April 21, 2021 City Council meeting and the April 29, 2021 City Council Goal Planning workshop.

CC #: 1490

File #: 0102-03

CONTACT: Helen Dreyer 916-774-5356 hdreyer@roseville.ca.us

Bids / Purchases / Services

7.2. On-Call Fence Construction Services – Contract Purchase Agreement

Memo from Parks, Recreation & Libraries Superintendent Eric Dexter and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 21-250 APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CRUSADER FENCE COMPANY, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 21-251 APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND LINMOORE FENCING & IRON WORKS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The Parks, Recreation, & Libraries Department issued a Request for Proposals (RFP) to provide fence installation and repair services on an as-needed basis. Staff recommends Council authorize the award of this contract purchase agreement to two contractors, Crusader Fence Company LLC and Linmoore Fencing & Iron Works, Inc., that includes a one (1) year base term with the option of four (4) additional one (1) year extensions. The amount of the service agreement for FY2021-22 is $100,000 for Crusader and $275,000 for Linmoore Fencing & Iron Works, Inc. These expenses are included in the FY2021-22 budget. The total for Crusader Fence Company LLC for the five year period is $530,914 the total for Linmoore Fencing & Iron Works, Inc. for the five year period is $1,460,012. Funding for on-call fence and construction repair services shall be provided through General Fund approved operations funds, and Community Facility District/Lighting & Landscape District budgets.

CC #: 1512

File #: 0704-02

CONTACT: Eric Dexter 916-746-1769 edexter@roseville.ca.us

7.3. Electric Landscape Improvements - Fiddyment Substation Project - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Power Engineering Manager Chris Porter and Electric Utility Director Michelle Bertolino recommending the City Council approve the plans and specifications and authorize staff to advertise the Electric Landscape Improvements - Fiddyment Substation project and call for bids. The estimated total project cost is $800,000. Funding is included in the Electric Landscape Improvements capital improvement project budget for FY2020-21, with

additional funding included in the proposed FY2021-22 budget.

CC #: 1507

File #: 0900-03

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

7.4. Residential New Construction Energy Efficiency Program Development - Service Agreement Amendment

Memo from Senior Energy Services Account Representative Mark Riffey and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 21-237 APPROVING AMENDMENT NO. 1 TO SERVICE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND TRC SOLUTIONS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (S1909056). Staff recommends Council approve an amendment for a one-year extension to the Residential New Construction Program Service Agreement with TRC Solutions, Inc. so that they can continue to support the utility's residential new construction energy efficiency programs, including the recently launched all-electric home pilot program. The amendment extends the term of the agreement through June 30, 2022. There is no change to the cost of the agreement.

CC #: 1492

File #: 0800-03

CONTACT: Mark Riffey 916-746-1667 mriffey@roseville.ca.us

Resolutions

7.5. Tower Theater Roof Replacement Project - Notice of Completion

Memo from Administrative Technician Tisha Chinn and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 21-239 ACCEPTING THE PUBLIC WORK KNOWN AS THE TOWER THEATER ROOF REPLACEMENT PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PUBLIC WORKS DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends the City Council accept the Tower Theater Roof Replacement project as complete. The total cost of the project was $301,480. This project was paid for out of the approved FY2020-21 Rental Facilities - Renovation and Restoration project budget.

CC #: 1496

File #: 0203-20

CONTACT: Tisha Chinn 916-774-5702 tchinn@roseville.ca.us

7.6. Professional Ambulance Billing - Services Agreements

Memo from Assistant Chief Brian Diemer and Fire Chief Rick Bartee recommending the City Council adopt RESOLUTION NO. 21-245 APPROVING AGREEMENTS, BY AND BETWEEN WITTMAN ENTERPRISES, LLC AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of an agreement for

Professional Ambulance Billing Services for the new first responder fee program, as well as a Business Associate Agreement, with Wittman Enterprises, LLC to provide third-party billing services. The estimated total cost of this service is $145,000. The FY2021-22 proposed budget for the General Fund includes estimated revenue of $745,000 and the estimated billing company cost of $145,000.

CC #: 1508

File #: 0324

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

7.7. Environmental Compliance Support Services - On-Call Professional Services Agreement Amendments

Memo from Assistant Engineer Cathy Gosalvez and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 21-243 APPROVING A FIRST AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ICF JONES & STOKES, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 21-244 APPROVING A FIRST AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ECORP CONSULTING, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends approving the agreement amendments for environmental compliance support services for design and construction as well as authorizing the City Manager to approve the remaining one-year extension without further Council approval. The amendments extend the contracts by one year and increase the contract compensation not-to-exceed amount for each amendment by $150,000. These contracts will be funded through various approved Capital Improvement Program project budgets. No General Fund resources will be used.

CC #: 1506

File #: 0800-04

CONTACT: Cathy Gosalvez 916-746-1300 cgosalvez@roseville.ca.us

7.8. 2018 Sewer Collection System Cured-In-Place Pipe Rehabilitation Project - Notice of Completion

Memo from Associate Engineer Jonathan Cummings and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 21-238 ACCEPTING THE PUBLIC WORK KNOWN AS THE 2018 SEWER COLLECTION SYSTEM CURE-IN-PLACE PIPE REHABILITATION PROJECT, APPROVING THE “NOTICE OF COMPLETION”, AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. This item requests City Council accept the 2018 Sewer Collection System Cured-In-Place Pipe Rehabilitation project as complete. The total cost for construction services was $542,772. The project was paid for by the Wastewater Rehabilitation Fund.

CC #: 1494

File #: 0900-02

CONTACT: Jonathan Cummings 916-774-5566 jcummings@roseville.ca.us

7.9. Aquifer Storage and Recovery – Monitoring Wells Project - Notice of Completion

Memo from Senior Engineer Jason Marks and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 21-242 ACCEPTING THE PUBLIC WORK KNOWN AS THE AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval of the Notice of Completion for the Aquifer Storage and Recovery – Monitoring Wells project. The total cost for the construction agreement was $697,700. The project was funded by the Water Construction Fund.

CC #: 1503

File #: 0900-02

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

7.10. California Independent System Operator Energy Imbalance Market - Credit Guaranty Agreement

Memo from Electric Risk and Compliance Supervisor Petra Wallace and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 21-240 APPROVING A CREDIT GUARANTY AGREEMENT, BY AND BETWEEN CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests the approval of a Credit Guaranty with the California Independent System Operator (CAISO) for Roseville Electric's participation in the CAISO Energy Imbalance Market (EIM). The Guaranty would allocate $1 million out of Roseville's $50 million unsecured credit limit for the Balancing Authority of Northern California's EIM transactions. There is no fiscal impact associated with the allocation of the Credit Guaranty.

CC #: 1501

File #: 0800-03

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

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

7.11. Electric Dispatch Center Renovation Project - Design-Build Construction Agreement Amendment and Budget Adjustment

Memo from Power Engineering Manager Chris Porter and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 21-249 APPROVING A FIRST AMENDMENT TO

DESIGN-BUILD CONSTRUCTION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CB2 BUILDERS INCORPORATED, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6372 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff recommends Council approve Amendment #1 to the Design-Build Construction Contract Agreement with CB2 Builders Incorporated for the Electric Dispatch Center Renovation Project. This Amendment is requested to increase the contract amount to $1,991,158.66. Staff also requests authorization for the Electric Utility Director, or designee, to approve and pay for contract change orders that could increase the contract amount by no more than 10%, or $199,115.87, for a total project amount of $2,190,274.53. The recommended budget adjustment will authorize an additional $665,000 of funding from the Electric Fund for FY2020-21, bringing the total project budget to $2,965,000.

CC #: 1511

File #: 0900-03

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

7.12. Oak Ridge Drive Bridge Replacement Project - Budget Adjustment

Memo from Associate Engineer Rjahja Canlas and Public Works Director Jason Shykowski recommending the City Council adopt ORDINANCE NO. 6399 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This project removed the bridge and constructed a longer, wider two-lane bridge with shoulders and sidewalks on both sides of the road. The total project budget is $6,576,823 with authorization of up to a 10% contingency for change orders. The approved Federal Highway Bridge Program (HBP) grant obligation for this project is $6,925,000. The recommended budget adjustment increases the expenditure and revenue budgets by $848,177, to match the approved federal obligation, in addition to adding construction contingency funds anticipated to be programmed upon project completion. The total project expenditure budget of $7,425,000 is funded by Federal HBP grant funds, with the exception of $50,000 of Roadway funds budgeted for potential non-participating project costs. No General Fund resources will be used for the project.

CC #: 1497

File #: 0900-04-02 & 0201-01

CONTACT: Rjahja Canlas 916-746-1300 rcanlas@roseville.ca.us

7.13. Environmental Utilities Fiscal Year 2020-21 Year-End Interfund Transfers - Budget Adjustment

Memo from Environmental Utilities Business Analyst Teri Quinlan and Environmental Utilities Director Richard Plecker recommending the City Council adopt ORDINANCE NO. 6370 OF THE COUNCIL OF THE CITY OF

ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff requests Council approve a budget adjustment to transfer water, wastewater, and waste services resources among the funds of each utility prior to the end of FY2020-21. Transfers from each utility's operating fund to its rate stabilization and rehabilitation funds are recommended due to several years' worth of increasing fund balances including FY2019-20 and FY2020-21 water revenues. This budget adjustment transfers out amounts equal to the transfers in within each utility. Thus, there is a net zero effect within each utility. The total of all transfers out for all three utilities is $39,176,614, which matches the total of resources transferred in. Rate stabilization funds will be used for rate mitigation in FY2021-22 and FY2022-23 and rehabilitation funds will be used for future projects. In addition, this budget adjustment includes a one-time transfer to move the accumulated local connection fees balance of $6,876,614 from the Wastewater Rehabilitation Fund to the Wastewater Construction Fund. This budget adjustment has no fiscal impact on the General Fund.

CC #: 1498

File #: 0800-02 & 0201-01

CONTACT: Janet Vargas 916-774-5557 jvargas@roseville.ca.us
Teri Quinlan 916-746-1780 tquinlan@roseville.ca.us

7.14. Roseville Aquatics Complex Maintenance Fund - Budget Adjustment

Memo from Parks, Recreation & Libraries Manager Kathy Barsotti and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt ORDINANCE NO. 6368 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The budget adjustment increases the revenue budget in the Roseville Aquatics Complex (RAC) Maintenance Fund by $600,000, moving money held in a permanent restricted account to an unrestricted account; and increases the expense budget in the RAC Maintenance Fund by $19,996, from earned interest in the account, and set up the related expense budget offset in the Aquatics General Fund Cost Center for maintenance costs, as per the joint use agreement with Roseville Joint Union High School District (RJUHSD); and increase the expense budget in the RAC Maintenance fund by $30,633 for funds to be applied in excess of the interest and RJUHSD's annual payment for calendar year 2019 pool maintenance costs, and set up the related expense budget offset in the Aquatics General Fund Cost Center, as per the joint use agreement with RJUHSD; and increase available resources in the RAC Maintenance Fund by $549,371 and in the General Fund by $50,629.

CC #: 1493

File #: 0707 & 0201-01

CONTACT: Kathy Barsotti 916-774-5955 kbarsotti@roseville.ca.us

Reports / Requests

7.15. HOUSING AUTHORITY - Quarterly Status Report

Memo from Housing Supervisor Suzi Cook-Turner and Economic Development Director Laura Matteoli recommending the City Council receive a quarterly report on Roseville Housing Authority's Housing Choice Voucher Program (HCV). Through monthly rental assistance payments, the HCV Program invests $6.2 million into the local economy annually. This report is for informational purposes only and has no impact on the City's General Fund.

CC #: 1489

File #: 0709-02-01

CONTACT: Suzi Cook-Turner 916-774-5414 smcook-turner@roseville.ca.us
Trisha Isom 916-746-1239 tisom@roseville.ca.us

Ceremonial Documents

7.16. Resolution - Dale Olson

Commend Dale Olson for his 15 years of outstanding service and dedication to the City of Roseville, congratulated for his accomplishments and wished a long, healthy, and enjoyable retirement.

CC #: 1513

File #: 0102-10

CONTACT: Blair Hutchison 916-774-5266 bmhutchison@roseville.ca.us

END OF CONSENT CALENDAR

8. ORDINANCES

8.1. Roseville Electric Utility Hydroelectric Rate Adjustment

Memo from Electric Utility Finance Administrator Eric Campbell and Electric Utility Director Michelle Bertolino recommending the City Council adopt ORDINANCE NO. 6371 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE TEMPORARILY SUSPENDING IMPLEMENTATION OF SECTION 14.24.052 OF CHAPTER 14.24 OF TITLE 14 OF THE ROSEVILLE MUNICIPAL CODE REGARDING THE HYDROELECTRIC ADJUSTMENT AND DECLARING THIS ORDINANCE TO BE EFFECTIVE JUNE 2, 2021 AS AN URGENCY ORDINANCE. This item recommends City Council adopt an urgency ordinance to extend the FY2021-22 hydroelectric adjustment through August 31, 2021 and suspend implementation of the FY2021-22 hydroelectric adjustment until September 1, 2021. The adjustment on customer billings from July 1, 2021 to August 31, 2021 will lessen the impact of electricity bills for customers through the typically higher summer bill months. The result of this recommended action reduces electric utility revenues approximately $600,000 in FY2021-22.

CC #: 1499

File #: 0800-03 & 0215-07

CONTACT: Eric Campbell 916-774-5626 ecampbell@roseville.ca.us

8.2. Roseville Municipal Code Amendment to Electric Rate Assistance Program

Memo from Electric Utility Finance Administrator Eric Campbell and Electric Utility Director Michelle Bertolino recommending the City Council introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 14.24.079 OF CHAPTER 14.24 OF TITLE 14 OF THE ROSEVILLE MUNICIPAL CODE REGARDING LOW INCOME RATE REDUCTION. Staff recommends the City Council approve an ordinance to change Title 14, Section 14.24.079 of the Roseville Municipal Code, Low-income rate reduction income level eligibility requirement from the U.S. Department of Housing and Urban Development very-low income determinate to the Department of Health and Human Services 200% of Federal Poverty Level income threshold. The estimated annual fiscal impact of the change in the income qualification level is $100,000. Funding is available from public benefits funds and is included in the proposed FY2021-22 Electric Budget.

CC #: 1505

File #: 0324

CONTACT: Eric Campbell 916-774-5626 ecampbell@roseville.ca.us

9. SPECIAL REQUESTS/REPORTS/PRESENTATION

9.1. The American Rescue Plan Act of 2021 - Update

Memo from Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council receive an update on the Coronavirus State and Local Fiscal Recovery Funds included in the American Rescue Plan Act of 2021.

CC #: 1495

File #: 0300

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

9.2. FY2021-22 Grants Advisory Commission Funding Recommendations

Memo from Housing Manager Trisha Isom recommending the City Council receive a presentation on the Grants Advisory Commission funding recommendations for the FY2021-22 Citizens Benefit Fund and Roseville Employees Annual Charitable Hearts (REACH) Fund applications. The combined grant awards, totaling $359,334, have been included in the proposed FY2021-22 budget. There is no General Fund impact for this item.

CC #: 1500

File #: 0103-34-02

CONTACT: Trisha Isom 916-746-1239 tisom@roseville.ca.us
Laura Matteoli 916-774-5284 lmatteoli@roseville.ca.us

10. PUBLIC HEARING

NOTICE TO THE PUBLIC

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

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

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

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

10.1. Community Facilities Districts - Adoption of Updated Schedule of Maintenance Costs and Charges for Maintenance Community Facilities Districts

Memo from Management Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 21-248 ADOPTING A SCHEDULE OF MAINTENANCE COSTS AND CHARGES FOR COMMUNITY FACILITIES DISTRICTS. The Schedule of Maintenance Costs and Charges for Maintenance Community Facilities Districts (CFDs) identifies costs for services provided by the City at the request of, or on behalf of, individual districts, as opposed to the public at large, and is reviewed annually. The Schedule of Maintenance Costs and Charges for Maintenance CFDs is intended to target full cost recovery in a fair and reasonable manner for all future maintenance CFDs, and annexations into existing maintenance CFDs, once implemented.. The proposed schedule of costs and charges, effective July 1, 2021 through June 30, 2022, is based on the results of a study completed in Fiscal Year 2020-21. The report is included as an attachment to this City Council communication. The fees currently in place are sufficient to recover approximately 96% of the City's service district maintenance costs. The adjusted fees are intended to recover 100% of the maintenance costs. Implementation of this schedule of costs and charges is subject to formation of new districts, or annexations into existing districts, to which the schedule would apply; therefore, no fiscal impact is estimated at this time.

CC #: 1510

File #: 0206-03

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

10.2. Community Facilities District No. 4 - Annexation of Territory

Memo from Management Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 21-246 OF THE CITY COUNCIL OF THE

CITY OF ROSEVILLE OF ANNEXATION OF TERRITORY TO COMMUNITY FACILITIES DISTRICT, AUTHORIZING THE LEVY OF A SPECIAL TAX AND SUBMITTING LEVY OF TAX TO QUALIFIED ELECTORS; and adopt RESOLUTION NO. 21-247 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE DECLARING RESULTS OF SPECIAL ANNEXATION ELECTION, DETERMINING VALIDITY OF PRIOR PROCEEDINGS, AND DIRECTING RECORDING OF AMENDED NOTICE OF SPECIAL TAX LIEN. On August 9, 2018, the Planning Commission approved the developer's request for a Tentative Subdivision Map to subdivide a 2.4-acre parcel into ten (10) single family residential lots for the 415 East Street Subdivision project. Per the conditions of approval, the subject property shall be annexed into the Community Facilities District (CFD) No. 4 (Public Facilities) prior to approval of the Final/Parcel Map, for the purpose of covering the costs of the ongoing maintenance obligations attributable to infill development. The annexation into the CFD will not impact the City's General Fund. The property owners will pay a special tax, sufficient to pay the maintenance and administrative costs of the CFD, that will be levied annually among the parcels of real property within the CFD.

CC #: 1509

File #: 0206-03-01 & 0400-04-17 & 0400-09-01

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

10.3. Junction Crossing Apartments - Tax Equity and Fiscal Responsibility Act Hearing

Memo from Management Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 21-241 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE APPROVING THE ISSUANCE BY THE CALIFORNIA PUBLIC FINANCE AUTHORITY OF MULTIFAMILY HOUSING REVENUE BONDS IN AN AGGREGATE PRINCIPAL AMOUNT NOT TO EXCEED $17,000,000 FOR THE PURPOSE OF FINANCING OR REFINANCING THE ACQUISITION AND CONSTRUCTION OF JUNCTION CROSSING APARTMENTS AND CERTAIN OTHER MATTERS RELATING THERETO; and conduct a public hearing under the requirements of the Tax Equity & Fiscal Responsibility Act ("TEFRA") and the Internal Revenue Code of 1986, as amended. Junction Station, LP (“the Borrower”) has requested that the California Public Finance Authority (“CalPFA”) serve as the issuer of tax-exempt facility bonds (the “Bonds”) in an aggregate principal amount not to exceed $17,000,000. The proceeds of the Bonds will be used for the purpose of CalPFA making a loan to the Borrower in order to finance the acquisition, construction, improvement and equipping of an 80-unit multifamily rental housing project, Junction Crossing Apartments, to be located at 120 Pacific Street, Roseville, California (the “Project”). As a member of CalPFA, the City will receive a portion of the administrative fees paid by the Borrower for financing the Project, estimated to be approximately $670 annually.

CC #: 1502

File #: 0110

CONTACT: Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us

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

11. REPORTS / PUBLIC COMMENTS

12. ADJOURNMENT

COUNCIL COMMUNICATION

CC #: 1491
File #: 0102-06

Title: Proclamation - National Gun Violence Awareness Day - June 4
Contact: Blair Hutchison 916-774-5266 bmhutchison@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 5.1.

RECOMMENDATION TO COUNCIL

Proclaim June 4, 2021, as NATIONAL GUN VIOLENCE AWARENESS DAY and encourage all citizens to support their local communities' efforts to prevent the tragic effects of gun violence and to honor and value human lives.

BACKGROUND

Not applicable.

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

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

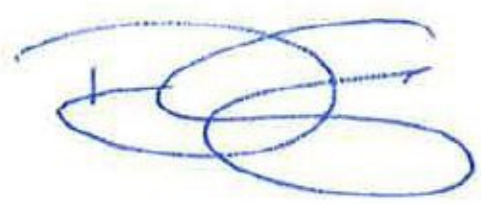
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal C - Maintain a safe and healthy community

Respectfully Submitted,

Blair Hutchison, Deputy City Clerk

Sonia Orozco, City Clerk



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Dominick Casey, City Manager

ATTACHMENTS:

Description

Proclamation

Proclamation

NATIONAL GUN VIOLENCE AWARENESS DAY

THE FIRST FRIDAY IN JUNE, JUNE 4, 2021

WHEREAS, every day, more than 100 Americans are killed by gun violence, alongside more than 230 who are shot and wounded, and on average there are more than 13,000 gun homicides every year; and

WHEREAS, cities across the nation, including the City of Roseville, are working to end the senseless violence with evidence-based solutions; and

WHEREAS, protecting public safety in the communities they serve is the organization's highest responsibility; and

WHEREAS, support for the Second Amendment rights of law-abiding citizens goes hand-in-hand with keeping guns away from people with dangerous histories; and

WHEREAS, law enforcement officers know their communities best, are the most familiar with local criminal activity and how to address it, and are best positioned to understand how to keep their citizens safe; and

WHEREAS, gun violence prevention is more important than ever as the COVID-19 pandemic continues to exacerbate gun violence after more than a year of increased gun sales, and increased calls to suicide and domestic violence hotlines; and

WHEREAS, in January 2013, Hadiya Pendleton was tragically shot and killed at age 15; and on June 4, 2021 to recognize the 24th birthday of Hadiya Pendleton (born: June 2, 1997), people across the United States will recognize National Gun Violence Awareness Day and wear orange in tribute to - (1) Hadiya Pendleton and other victims of gun violence; and (2) the loved ones of those victims; and

WHEREAS, anyone can join this campaign by pledging to wear orange on June 4th, the first Friday in June in 2021, to help raise awareness about gun violence; and

WHEREAS, by wearing orange on June 4, 2021 Americans will raise awareness about gun violence and honor the lives of gun violence victims and survivors; and

WHEREAS, we renew our commitment to reduce gun violence and pledge to do all we can to keep firearms out of the wrong hands, and encourage responsible gun ownership to help keep our children safe; and

NOW THEREFORE, I, KRISTA BERNASCONI, MAYOR OF THE CITY OF ROSEVILLE, CALIFORNIA proclaim the first Friday in June, June 4, 2021, to be **NATIONAL GUN VIOLENCE AWARENESS DAY** and I encourage all citizens to support their local communities' efforts to prevent the tragic effects of gun violence and to honor and value human lives.

SIGNED AND APPROVED this 2nd day of June, 2021

CITY OF ROSEVILLE
INCORPORATED APRIL 10, 1909

KRISTA BERNASCONI, MAYOR

COUNCIL COMMUNICATION

CC #: 1504
File #: 0102-10

Title: Resolution - June Wanish
Contact: Blair Hutchison 916-774-5266 bmhutchison@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 5.2.

RECOMMENDATION TO COUNCIL

Commend June Wanish for her outstanding service and dedication to the City of Roseville, she was cherished and loved by her family and many friends, and will be missed.

BACKGROUND

Not applicable.

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

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

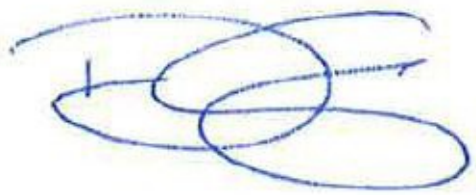
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Not applicable.

Respectfully Submitted,

Blair Hutchison, Deputy City Clerk

Sonia Orozco, City Clerk



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution

Resolution

WHEREAS, June Wanish passed away on April 21, 2021 at the age of 89; and

WHEREAS, June served on over 25 Boards, Commissions, and Committees in service to the City of Roseville beginning in 1957 and continuing into the 1990's, and was a member of the Roseville City Council from 1978 to 1985; and

WHEREAS, in 1978 June was the first woman to be elected to the Roseville City Council and the first woman to serve as mayor; and

WHEREAS, during her time on Council the Maidu Regional Park land was purchased, the main library was built, the plan to steer Roseville's future growth was implemented contributing to jobs, housing, parks, libraries, schools; and

WHEREAS, in the 1960's June helped launch Roseville Community Projects to preserve the history of Roseville and foster an appreciation of the Arts; and

WHEREAS, in 1964 June coordinated the establishment of the Roseville Arts Center which served the City of Roseville for over 30 years; and

WHEREAS, June worked for 44 years as an optometric assistant, and when she retired she developed and conducted tours to cultural events for the City or Roseville Parks and Recreation Department and the Roseville Arts Center for over 11 years; and

WHEREAS, June and her Cavalier King Charles Spaniel, Kimber, a certified therapy dog, visited retirement homes and schools for adults with disabilities and participated in "Read to a Pet" programs at local libraries; and

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, that **JUNE WANISH** be commended for her outstanding service and dedication to the City of Roseville, as she was cherished and loved by her family and many friends, and will be missed.

SIGNED AND APPROVED this 2nd day of June, 2021.

CITY OF ROSEVILLE
INCORPORATED APRIL 10, 1909

KRISTA BERNASCONI, MAYOR

COUNCIL COMMUNICATION

CC #: 1490
File #: 0102-03

Title: Minutes of Prior Meetings
Contact: Helen Dreyer 916-774-5356 hdreyer@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.1.

RECOMMENDATION TO COUNCIL

Recommend the City Council approve the minutes of the April 7, 2021 City Council meeting, the April 21, 2021 City Council meeting and the April 29, 2021 City Council Goal Planning workshop.

BACKGROUND

There is no background associated with this item. The request is to approve the minutes of previous meetings.

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment per CEQA Guidelines §15061(b)(3). The approval of minutes does not include the potential for a significant environmental effect, and therefore is not subject to CEQA.

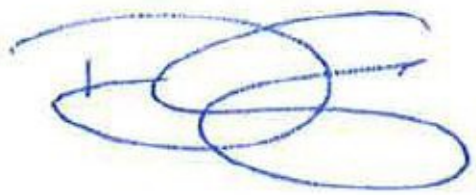
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal B - Support community engagement and advocacy

Respectfully Submitted,

Helen Dreyer, City Clerk Technician

Sonia Orozco, City Clerk



Dominick Casey, City Manager

ATTACHMENTS:

Description

April 7, 2021 City Council Meeting

April 21, 2021 City Council Meeting

April 29, 2021 City Council Workshop

MINUTES
April 7, 2021

CITY COUNCIL
6:00 p.m.
Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us/CORTV

The meeting will be open to limited in-person attendance. To remain in compliance with the state's public health guidance, attendance will be limited to 25% of the room's capacity (15 seats) and will require 6 feet of social distancing inside and outside the council chambers. Face coverings are required and will be provided to those who don't have a mask.

Due to the limited capacity in the chambers, the public is highly encouraged to participate virtually. The meeting may be viewed on Comcast channel 14, Consolidated Communications channel 73, and AT&T U-Verse. City Council meetings are also video streamed live and are available on the City's website and YouTube channel. Members of the public may offer public comment by phone:

Dial in Phone Number: 916-774-5353

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

1. CALL TO ORDER

Mayor Krista Bernasconi called the meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Houdesheldt, Alvord, Roccucci, Mendonsa, Bernasconi

3. PLEDGE OF ALLEGIANCE

Councilmember Pauline Roccucci led the Pledge of Allegiance.

4. MEETING PROCEDURES

City Clerk Sonia Orozco announced the procedures for addressing the City Council.

5. PRESENTATIONS

5.1. Proclamation - Child Abuse Prevention Awareness Month

Proclaim April 2021 as CHILD ABUSE PREVENTION AWARENESS MONTH and urges all citizens to join KidsFirst and its engaged partners, as they support each family's efforts to keep themselves and their children safe, healthy and in a nurturing environment.

CONTACT: Blair Hutchison 919-774-5266 bmhutchison@roseville.ca.us

Councilmember Tracy Mendonsa presented the proclamation to Kristina Darte - Child Abuse Prevention Coordinator at Kids First, who responded.

5.2. Resolution - Condemning Racism and Intolerance Against Asian Americans and Pacific Islanders

Condemn Racism and Intolerance Against Asian Americans and Pacific Islanders.

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

Councilmember Scott Alvord and Vice Mayor Bruce Houdesheldt presented the resolution to Oakmont Asian Student Union members Angela Palapos and Catherine Mendoza, and to Donna Trumbo, who volunteers to facilitate community diversity and inclusion discussions. Oakmont student representative and Donna Trumbo responded.

6. PUBLIC COMMENTS

La Mills Garrett - Requested City Councilmembers' personal positions on items that affect Roseville residents such as low income housing and transportation options.

Kathleen Crawford - Spoke on dissatisfaction of Placer County and City of Roseville not moving through the COVID-19 tier system.

7. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

City Clerk Sonia Orozco announced the procedures for approving the Consent Calendar.

Motion by Pauline Roccucci, seconded by Bruce Houdesheldt, to drop item 7.15

from the Consent Calendar to be heard at a future meeting and approve the remaining items as recommended. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa, Roccucci

Minutes

7.1. Minutes of Previous Meetings

Memo from City Clerk Technician Helen Dreyer and City Clerk Sonia Orozco recommending the City Council approve the minutes of the December 16, 2020 City Council meeting; the January 13, 2021 Legislative Platform Workshop and City Council meeting; and the January 20, 2021 City Council meeting.

CC #: 1377

File #: 0102-03

CONTACT: Helen Dreyer 916-774-5356 hdreyer@roseville.ca.us
Sonia Orozco 916-774-5269 sorozco@roseville.ca.us

Bids / Purchases / Services

7.2. Pleasant Grove 2 Substation Expansion Civil Construction - Award of Contract

Memo from Power Engineer Vince Bottoni and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 21-135 APPROVING AN AGREEMENT, BY AND BETWEEN ACCELERATED CONSTRUCTION & METAL, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff is requesting Council award a construction contract to Accelerated Construction and Metal, LLC in the amount of $229,770 for construction at Pleasant Grove 2 Substation. This agreement provides for all work associated with the expansion of the Pleasant Grove 2 substation and the addition of a new 12kV switchgear. Staff is also requesting authorization for the Electric Utility Director or designee to approve and pay for contract change orders that could increase the contract amount by no more than 10%, or $22,977, for a total of $252,747. Funds are available in the Electric Department FY2020-21 Capital Improvement project budget.

CC #: 1383

File #: 0900-03

CONTACT: Vince Bottoni 916-774-5641 vbottoni@roseville.ca.us

Resolutions

7.3. Western Area Power Administration - Resource Sufficiency Products Letter of Agreement

Memo from Electric Risk and Compliance Supervisor Petra Wallace and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 21-137 APPROVING A LETTER OF AGREEMENT, BETWEEN THE UNITED STATES DEPARTMENT OF ENERGY, WESTERN

AREA POWER ADMINISTRATION, SIERRA NEVADA REGION AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This Letter of Agreement (LOA) with the Western Area Power Administration will enable Roseville Electric Utility to buy and sell Resource Sufficiency Products to each other under the existing Western Systems Power Pool Master Agreement. Adequate Resource Sufficiency Products are required to participate in California Independent System Operator's Energy Imbalance Market. There is no fiscal impact associated with the execution of the LOA as it is only an enabling agreement.

CC #: 1387

File #: 0800-03

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

7.4. Western System Power Pool - Master Agreement Amendment

Memo from Electric Risk and Compliance Supervisor Petra Wallace and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 21-133 APPROVING AN AMENDMENT TO THE WESTERN SYSTEMS POWER POOL AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND MORGAN STANLEY CAPITOL GROUP, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This is the First Amendment to the Western Systems Power Pool (WSPP) Master Agreement with Morgan Stanley Capital Group Inc. (Morgan Stanley). The WSPP Master Agreement's Collateral Annex with Morgan Stanley will be replacing the London Interbank Offered Rate with the Federal Funds Rate to calculate interest going forward. There is no fiscal impact associated with the execution of the amendment as it is only an enabling agreement.

CC #: 1381

File #: 0800-03

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

7.5. Western Area Power Administration - Firm and Non-Firm Short-Term Point-To-Point Transmission Service Agreements

Memo from Electric Business Analyst Ryley Kelly and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 21-131 APPROVING A SERVICE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND SIERRA NEVADA REGION OF WESTERN AREA POWER ADMINISTRATION AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 21-132 APPROVING A SERVICE AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND SIERRA NEVADA REGION OF WESTERN AREA POWER ADMINISTRATION AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This item requests approval for the City Manager to enter into new Firm and Non-Firm Short-Term Point-To-Point Transmission Service Agreements with the Western Area Power Administration. Existing agreements are set to expire

in July 2021. Upon renewal, the new agreements would be valid from July 2021 through July 2031. There is no fiscal impact as they are only enabling agreements.

CC #: 1380

File #: 0800-03

CONTACT: Ryley Kelly 916-774-5649 rkelly@roseville.ca.us

7.6. Industrial and Fiddyment Substation Civil Construction - Notice of Completion

Memo from Power Engineer Vince Bottoni and Electric Utility Director Michelle Bertolino recommending the City Council adopt RESOLUTION NO. 21-128 ACCEPTING THE PUBLIC WORK KNOWN AS THE INDUSTRIAL AND FIDDYMENT SUBSTATION CIVIL CONSTRUCTION PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ELECTRIC UTILITY DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. The Electric Department has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. The total amount of the contract with Interstate Construction was $533,737 and was paid for from the Electric Department's Capital Improvement Project budget.

CC #: 1378

File #: 0900-03

CONTACT: Vince Bottoni 916-774-5641 vbottoni@roseville.ca.us

7.7. Relocation of Overhead Electric Lines on Parcel F-55 – Agreements to Perform Tariff Schedule Related Work

Memo from Assistant Engineer Beth Taylor and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 12-136 APPROVING AGREEMENTS TO PERFORM TARIFF SCHEDULE RELATED WORK, BY AND BETWEEN PACIFIC GAS & ELECTRIC AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE THEM ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of two agreements with Pacific Gas & Electric to perform tariff related work. These agreements total $202,162.63 and are funded by the General Fund. Sufficient funding for these agreements is available in the project budget approved by City Council at the January 20, 2021 Council meeting, and no additional funds are needed.

CC #: 1386

File #: 0800-03

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

7.8. Sales Tax Revenue Consulting Services - Professional Services Agreement

Memo from Budget Manager Scott Pettingell and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 12-129 APPROVING A PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND MUNISERVICES, LLC, AND AUTHORIZING THE CITY MANAGER TO

EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 21-130 RESOLUTION AUTHORIZING THE EXAMINATION OF SALES OR TRANSACTIONS AND USE TAX RECORDS. The purpose of this request is to recommend the City Council authorize the City Manager to enter into a professional services agreement with MuniServices to provide sales tax and transaction and use tax auditing, projection, recovery, and consultant services for a term of two years, with an option to renew for three additional years, and an annual not-to-exceed amount of $150,000 or $300,000 over the initial two-year term. This request also includes a recommendation to authorize MuniServices with access to all sales and transaction and use tax records collected by the California Department of Tax and Fee Administration, including Measure B sales and use tax records. There are adequate funds available in the FY2020-21 Adopted Budget to fund this agreement.

CC #: 1379

File #: 0210

CONTACT: Scott Pettingell 916-774-1306 spettingell@roseville.ca.us

7.9. Bond Trustee Services - Professional Services Agreement Amendment

Memo from Accounting Supervisor Nick Rosas and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 21-124 APPROVING A FIFTH AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND THE BANK OF NEW YORK MELLON TRUST COMPANY, N.A. AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. This contract amendment has an estimated cost of $75,000, bringing the total not-to-exceed contract amount to $450,000. The annual fee of approximately $1,800 per series is charged for each outstanding bond series. Payment for these services will be paid by the Environmental Utilities Department, the Electric Department, and Community Facilities Districts. There is no impact to the City's General Fund.

CC #: 1374

File #: 0200

CONTACT: Nick Rosas 916-774-5314 nrosas@roseville.ca.us

7.10. East Street Subdivision Infill Parcel 35, 32B – Affordable Purchase Housing Agreement

Memo from Housing Analyst Suzanne Acrell and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 21-123 APPROVING AN AFFORDABLE PURCHASE HOUSING AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND USKO CONSTRUCTION, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT AND ALL RELATED DOCUMENTS ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of an Affordable Purchase Housing Agreement (APHA) with USKO Construction, developers of East Street Subdivision (Infill Parcel 35, 32B), who is required to enter into an APHA with the City to implement the affordable housing obligations for the parcel. In accordance with the City's General Plan requirements, the developer will build one of the subdivision's ten homes as an affordable purchase unit available to middle income buyers. The subsidies for

the program are funded by the developer and do not impact the General Fund.

CC #: 1373

File #: 0709-03-01

CONTACT: Suzanne Acrell 916-774-5469 sacrell@roseville.ca.us
Trisha Isom 916-746-1239 tisom@roseville.ca.us

7.11. 2020 Housing Element Annual Progress Report

Memo from Housing Manager Trisha Isom and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 21-118 HOUSING ELEMENT ANNUAL PROGRESS REPORT. Staff requests Council approve an annual informational report on the status of the Housing Element of the General Plan and progress in its implementation, as required by the State of California. The staff cost to develop the 2020 Housing Element Annual Progress Report was included in the FY2020-21 adopted budget. There is no impact to the City's General Fund.

CC #: 1365

File #: 0709-01

CONTACT: Trisha Isom 916-746-1239 tisom@roseville.ca.us

7.12. COVID Homeless Prevention Assistance Program - Community Development Block Grant Agreement

Memo from Housing Analyst Kristine Faelz and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 21-120 APPROVING A COMMUNITY DEVELOPMENT BLOCK GRANT AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND AMI HOUSING, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff requests approval of a Community Development Block Grant Agreement with AMI Housing for $250,000 of Community Development Block Grant Coronavirus Aid, Relief and Economic Security Act Coronavirus 3 funding to pay for the COVID Homeless Prevention Assistance program due to the COVID-19 virus. Funds for this project will come out of the Community Development Block Grant and will not impact the General Fund.

CC #: 1368

File #: 0709-05 & 0214

CONTACT: Kristine Faelz 916-774-5451 kpfaelz@roseville.ca.us

7.13. Interstate 80 Auxiliary Lanes Project - Right of Way Contract and Temporary Construction Easement Deed

Memo from Senior Engineer Mark Johnson and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 21-138 APPROVING A RIGHT OF WAY CONTRACT, BY AND BETWEEN THE CITY OF ROSEVILLE AND SOUTH PLACER REGIONAL TRANSPORTATON AUTHORITY AND APPROVING A TEMPORARY CONSTRUCTION EASEMENT DEED FOR THE INTERSTATE 80 AUXILIARY LANE

PROJECT AND AUTHORIZING THE CITY MANAGER TO EXECUTE THEM ON BEHALF OF THE CITY OF ROSEVILLE AND FINDING THAT SUCH DONATION SERVES A PUBLIC PURPOSE AND IS IN THE BEST INTEREST OF THE CITY. The Interstate 80 (I-80) Auxiliary Lanes Project ("Project"), administered by the South Placer Regional Transportation Authority (SPRTA), will include capacity and safety improvements on I-80 through the cities of Roseville and Rocklin. The Project will reduce congestion by adding a westbound lane between Douglas Boulevard and Riverside Avenue and an eastbound lane between State Route 65 and Rocklin Road and will improve safety through construction of on-ramp and off-ramp improvements along the corridor. The Project will also construct drainage improvements, some of which are a direct benefit to the City. In order to facilitate construction of portions of the Project, Temporary Construction Easements (TCE's) are necessary to allow access across unimproved City Park property located at the terminus of JoAnne Lane and extending to Cirby Creek. Because this is a public facility, SPRTA is required to obtain a fair market valuation of the impacted property and submit a formal offer to the City for compensation. An appraiser has valued the TCE's at $17,300. Due to the public benefit realized by the City and its residents through the Project improvements, staff is recommending that the City waive the fair market value offer and approve the TCE's as a no-cost donation.

CC #: 1388

File #: 0900-04-02 & 1002-06

CONTACT: Mark Johnson 916-774-5481 mjohnson@roseville.ca.us

7.14. Fiddyment Ranch Phase 3 Village F-8B - Street Name Removal

Memo from GIS Analyst Scott Miller and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 21-122 APPROVING THE REMOVAL OF STREET NAMES BICKNELL PLACE, HANKSVILLE PLACE, LOCKERBY PLACE, MISSOULA PLACE, BOZEMAN PLACE, CAPITOL REEF PLACE, BLACKFOOT PLACE, BELGRADE PLACE, MODERNA PLACE, ESCALANTE PLACE, BONNEVILLE PLACE, LYMAN PLACE, AND ELMO PLACE FROM THE FIDDYMENT RANCH PHASE 3 VILLAGE F-8B FINAL MAP, AND AUTHORIZING THE CITY ENGINEER TO EXECUTE THE CERTIFICATE OF CORRECTION ON BEHALF OF THE CITY OF ROSEVILLE. This item concerns a request from the City to remove the street names of the dead-end alleys on the final map of the subject subdivision within the West Roseville Specific Plan. The action requested has no impact to the City's General Fund.

CC #: 1370

File #: 0800-06

CONTACT: Scott Miller 916-774-5491 smiller@roseville.ca.us

7.15. Campus Oaks CO-12 Phase 2 - Final Map and Subdivision Agreement

Memo from Assistant Engineer Kerry Andrews and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 21-119 APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND BBC ROSEVILLE OAKS, LLC AND LENNAR

HOMES OF CALIFORNIA, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff also requests approval of the Campus Oaks CO-12 Phase 2 final map. Engineering has completed its review of the final map and found that it is in compliance with the approved tentative map. This map will be creating 27 residential lots. The actions requested have no fiscal impact to the City's General Fund.

CC #: 1367

File #: 0400-04-18-1 & 0400-07

CONTACT: Kerry Andrews 916-774-5346 kandrews@roseville.ca.us

Item 7.15 dropped to be relisted at a later date.

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

7.16. 401 Oak Street Properties - Budget Adjustment

Memo from Economic Development Director Laura Matteoli recommending the City Council adopt ORDINANCE NO. 6343 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff recommends approval of a budget adjustment to appropriate $395,554 from the City's Strategic Improvement Fund for the 401 Oak Street properties. This budget adjustment authorizes funds for the repurchase of the 401 Oak Street properties, in the amount of $350,114; and allocates $45,440 for the completion of civil engineering, architectural and surveying services. The consultant services/studies will be used for future site evaluation for redevelopment of the property.

CC #: 1366

File #: 1002 & 0201-01

CONTACT: Laura Matteoli 916-774-5284 lmatteoli@roseville.ca.us

7.17. Temporary Salary Schedule and Staffing Changes

Memo from Human Resources Manager Linda Hampton and Human Resources Director Stacey Peterson recommending the City Council adopt ORDINANCE NO. 6347 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6312, THE SALARY ORDINANCE FOR SEASONAL/TEMPORARY EMPLOYEES, AS AMENDED BY APPENDIX “L” TO BE EFFECTIVE APRIL 10, 2021, AS AN URGENCY MEASURE. As part of an ongoing assessment of the appropriate staffing levels to provide a high level of service to the community, staff is recommending that the City Council approve the citywide position allocation schedule reflecting staffing changes in the Parks, Recreation and Libraries (PR&L) Department. The $8,478 FY2020-21 impact of these changes can be absorbed by salary savings in the PR&L department budget. In addition, staff recommends that Council approve the Temporary salary schedule to reflect the class retitles of Child Care Program Assistant I/II to Child Care Program Assistant and Child Care Program Leader.

CC #: 1389

File #: 0600-01

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

Ordinances (for second reading and adoption)

7.18. Second Reading - West Roseville Specific Plan Parcel W-20 - Rezone and Development Agreement Amendment

ORDINANCE NO. 6341 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE NO. 5428 OF THE CITY OF ROSEVILLE CHANGING THE ZONING OF CERTAIN REAL PROPERTY LOCATED WITHIN THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6342 ADOPTING A NINTH AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MOURIER INVESTMENTS, LLC AS ASSIGNEE OF VC ROSEVILLE, LLC RELATIVE TO THE WEST ROSEVILLE SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE, for second reading and adoption.

CC #: 1362

File #: 0400-04-09 & 0400-02

CONTACT: Kinarik Shallow 916-746-1309 kshallow@roseville.ca.us

Ceremonial Documents

7.19. Resolution - Audrey Byrnes

Commend Audrey Byrnes for her 28 years of outstanding service and dedication to the City of Roseville, congratulate her on her many accomplishments, and extend wishes for a long, healthy, and enjoyable retirement.

CC #: 1364

File #: 0102-10

CONTACT: Blair Hutchison 916-774-5266 bmhutchison@roseville.ca.us

7.20. Proclamation - Food Allergy Awareness Week May 9-15, 2021

Proclaim May 9-15, 2021 as FOOD ALLERGY AWARENESS WEEK and encourage all residents to increase their understanding and awareness of this potentially life-threatening medical condition, improving the quality of life of the 32 million Americans affected by food allergies and anaphylaxis by visiting www.FoodAllergyAwareness.org.

CC #: 1385

File #: 0102-06

CONTACT: Blair Hutchison 916-774-5266 bmhutchison@roseville.ca.us

7.21. Resolution - David Frederick

Commend David Frederick for his 21 years of outstanding service and dedication to the City of Roseville, congratulate him on his accomplishments and extend wishes for a long, healthy, and enjoyable retirement.

CC #: 1392

File #: 0102-10

CONTACT: Blair Hutchison 916-744-5266 bmhutchison@roseville.ca.us

7.22. Resolution - David Allen

Commend David Allen for his 30 years of outstanding service and dedication to the City of Roseville, congratulate him on his many accomplishments, and extend wishes for a long, healthy, and enjoyable retirement.

CC #: 1391

File #: 0102-10

CONTACT: Blair Hutchison 916-744-5266 bmhutchison@roseville.ca.us

7.23. Resolution - Curtis Gothier

Commend Curtis Gothier for his 25 years of outstanding service and dedication to the City of Roseville, congratulate him on his many accomplishments, and extend wishes for a long, healthy, and enjoyable retirement.

CC #: 1390

File #: 0102-10

CONTACT: Blair Hutchison 916-774-5266 bmhutchison@roseville.ca.us

END OF CONSENT CALENDAR

8. RESOLUTIONS

8.1. Sierra Vista Specific Plan Westpark-Federico Community Facilities District No. 1 Public Facilities - Bond Issuance

Memo from Management Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 21-127 A RESOLUTION AUTHORIZING THE ISSUANCE OF SPECIAL TAX BONDS FOR AND ON BEHALF OF THE CITY OF ROSEVILLE SVSP WESTPARK-FEDERICO COMMUNITY FACILITIES DISTRICT NO. 1 (PUBLIC FACILITIES), APPROVING AND DIRECTING THE EXECUTION OF A SUPPLEMENTAL AGREEMENT TO FISCAL AGENT AGREEMENT AND BOND PURCHASE AGREEMENT, APPROVING THE FORM OF PRELIMINARY OFFICIAL STATEMENT, APPROVING SALE OF SUCH BONDS, AND APPROVING OTHER RELATED DOCUMENTS AND ACTIONS. This 2021 bond issuance is the second series of bonds being issued for the City's Sierra Vista Specific Plan Westpark-Federico Community Facilities District (CFD) No. 1 (Public Facilities), and will be used to construct and acquire certain public facilities of benefit to the District, provide for a deposit to a debt service reserve

account, provide capitalized interest for debt service, and pay costs of issuance of the 2021 series Bonds. The 2021 Bonds have a not-to-exceed amount of $9,500,000. The CFD will generate special taxes that will be paid by the property owners sufficient to pay the costs for the debt service, CFD administration, and any authorized pay-as-you-go facilities, as well as provide funding in the future for maintenance/replacement of constructed facilities. The issuance of bonds will not impact the City's General Fund.

CC #: 1376

File #: 0206-03-01

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

Assistant City Manager/Chief Financial Officer Dennis Kauffman made the presentation to the City Council.

No public comment received.

Motion by Bruce Houdesheldt, seconded by Scott Alvord, to adopt RESOLUTION NO. 21-127 A RESOLUTION AUTHORIZING THE ISSUANCE OF SPECIAL TAX BONDS FOR AND ON BEHALF OF THE CITY OF ROSEVILLE SVSP WESTPARK-FEDERICO COMMUNITY FACILITIES DISTRICT NO. 1 (PUBLIC FACILITIES), APPROVING AND DIRECTING THE EXECUTION OF A SUPPLEMENTAL AGREEMENT TO FISCAL AGENT AGREEMENT AND BOND PURCHASE AGREEMENT, APPROVING THE FORM OF PRELIMINARY OFFICIAL STATEMENT, APPROVING SALE OF SUCH BONDS, AND APPROVING OTHER RELATED DOCUMENTS AND ACTIONS. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa, Roccucci

9. ORDINANCES

9.1. Salary Schedules for City Council Appointed Positions and City Attorney Employment Personal Services Agreement

Memo from Human Resources Manager Linda Hampton and Human Resources Director Stacey Peterson recommending the City Council adopt ORDINANCE NO. 6345 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6311, THE SALARY ORDINANCE FOR CITY COUNCIL APPOINTED POSITIONS, AS AMENDED BY APPENDIX “N” TO BE EFFECTIVE APRIL 10, 2021 AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 6346 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6345, THE SALARY ORDINANCE FOR CITY COUNCIL APPOINTED POSITIONS, AS AMENDED BY APPENDIX “O” TO BE EFFECTIVE MAY 29, 2021 AS AN URGENCY MEASURE; and adopt RESOLUTION NO. 21-134 APPROVING AN EMPLOYMENT AND PERSONAL SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND MICHELLE SHEIDENBERGER, AND AUTHORIZING THE MAYOR TO EXECUTE IT ON BEHALF OF THE CITY

OF ROSEVILLE. As a result of the annual evaluation of the City Manager, staff is recommending that Council approve the attached ordinance to approve the City Council Appointed Positions salary schedule, effective April 10, 2021, that reflects a 6% salary increase for the City Manager, and a salary schedule update to the City Attorney salary effective May 29, 2021, reflecting an approximately 1.84% reduction. Staff recommends Council approve the Employment and Personal Services Agreement with Michelle Sheidenberger for the Council Appointed City Attorney position to be effective May 29, 2021. The total annual impact for these updates is $18,320 in the General Fund.

CC #: 1382

File #: 0600-01

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

Human Resources Director Stacey Peterson made the presentation to the City Council.

La Mills Garrett - Spoke in support of Michelle Sheidenberger's appointment as City Attorney and in support of a selection and appointment process that includes women and ethnic minorities.

Retiring City Attorney Bob Schmitt made congratulatory comments.

Motion by Bruce Houdesheldt, seconded by Tracy Mendonsa, to adopt ORDINANCE NO. 6345 OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6311, THE SALARY ORDINANCE FOR CITY COUNCIL APPOINTED POSITIONS, AS AMENDED BY APPENDIX "N" TO BE EFFECTIVE APRIL 10, 2021 AS AN URGENCY MEASURE; and adopt ORDINANCE NO. 6346 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ORDINANCE NO. 6345, THE SALARY ORDINANCE FOR CITY COUNCIL APPOINTED POSITIONS, AS AMENDED BY APPENDIX "O" TO BE EFFECTIVE MAY 29, 2021 AS AN URGENCY MEASURE; and adopt RESOLUTION NO. 21-134 APPROVING AN EMPLOYMENT AND PERSONAL SERVICES AGREEMENT BETWEEN THE CITY OF ROSEVILLE AND MICHELLE SHEIDENBERGER, AND AUTHORIZING THE MAYOR TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa, Roccucci

10. SPECIAL REQUESTS/REPORTS/PRESENTATION

10.1. Emergency Rental Assistance - Grant Agreement and Budget Adjustment

Memo from Housing Manager Trisha Isom and Economic Development Director Laura Matteoli recommending the City Council adopt RESOLUTION NO. 21-121 APPROVING A GRANT AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND PLACER COUNTY DEPARTMENT OF HEALTH & HUMAN SERVICES, AND RATIFYING THE CITY MANAGER'S EXECUTION OF IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6344 OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND

DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff requests approval of a grant agreement between Placer County and the City of Roseville to allow the City to administer the Emergency Rental Assistance Program grant to benefit Roseville residents and approve a budget adjustment for the Emergency Rental Assistance Funding in the amount of $5,128,073.61 for rental and utility assistance. Approximately $350,000 of the grant is available to help cover staff costs for program administration. The Emergency Rental Assistance program will not create additional costs to the City's General Fund.

CC #: 1369

File #: 0709 & 0214 & 0201-01

CONTACT: Trisha Isom 916-746-1239 tisom@roseville.ca.us
Laura Matteoli 916-774-5284 lmatteoli@roseville.ca.us

Housing Manager Trisha Isom made the presentation to the City Council.

La Mills Garrett - Spoke on City Councilmembers not providing their personal policies or opinions on workforce housing.

Motion by Pauline Roccucci, seconded by Scott Alvord, to adopt RESOLUTION NO. 21-121 APPROVING A GRANT AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND PLACER COUNTY DEPARTMENT OF HEALTH & HUMAN SERVICES, AND RATIFYING THE CITY MANAGER'S EXECUTION OF IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6344 OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa, Roccucci

10.2. Long-term Pension and Other Postemployment Benefits Liabilities Update

Memo from Budget Manager Scott Pettingell and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council receive a presentation on the City's long-term California Public Employees' Retirement System pension and other postemployment benefits (OPEB) liabilities.

CC #: 1371

File #: 0600-04

CONTACT: Scott Pettingell 916-746-1306 spettingell@roseville.ca.us
Dennis Kauffman 916-774-5315 dkauffman@roseville.ca.us

Assistant City Manager/Chief Financial Officer Dennis Kauffman made the presentation to the City Council.

No public comment received.

For information only. No action required.

10.3. Youth Development Fund Status Report

Memo from Parks, Recreation & Libraries Director Jill Geller and Assistant City Manager Dion Louthan recommending the City Council receive an update on the Youth Development Fund and the impact of COVID-19 on the fund's operations and revenues.

CC #: 1372

File #: 0704

CONTACT: Jill Geller 916-774-5131 jageller@roseville.ca.us

Parks, Recreation & Libraries Director Jill Geller made the presentation to the City Council.

Kathleen Crawford - Spoke in support of all City child development programs and in support of lost revenue being reimbursed with federal funding.

Lisa Larkin - Spoke in support of City Council making the program whole again.

For information only. No action required.

11. PUBLIC HEARING

11.1. Sierra Vista Specific Plan Parcels FD-8, FD-10, FD-21, FD-23, CO-21, and CO-22 - General Plan Amendment, Specific Plan Amendment, and Development Agreement Amendments

Memo from Associate Planner Kinarik Shallow and Development Services Director Mike Isom recommending the City Council consider the Fourth Addendum to the Sierra Vista Specific Plan Environmental Impact Report; and adopt RESOLUTION NO. 21-125 AMENDING THE GENERAL PLAN TO CHANGE THE LAND USE DESIGNATIONS ON CERTAIN REAL PROPERTY IN THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 21-126 AMENDING THE SIERRA VISTA SPECIFIC PLAN; and adopt the five (5) findings of fact and introduce for first reading an ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MOURIER INVESTMENTS, LLC (“MOURIER AGREEMENT”) RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt the five (5) findings of fact and introduce for first reading an ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A FOURTH AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. (“WESTPARK FEDERICO AGREEMENT”)

RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The proposed project will facilitate the development of 613 single-family residential units within the Sierra Vista Specific Plan (SVSP). The applicant requests approval of a General Plan Amendment to change the land use designation of Parcel FD-10 from Low Density Residential to Medium Density Residential and a Specific Plan Amendment to reflect the land use change and to transfer units among several large lot parcels within the SVSP. Two Development Agreements that cover the subject parcels will be amended to reflect the land use change and unit transfers, revise development obligations with respect to groundwater and recycled water facilities, and to clarify evaluation of water conservation goals. The project is not anticipated to result in any negative impacts to the City's General Fund.

CC #: 1375

File #: 0400-04-12-1 & 0400-03 & 0400-04

CONTACT: Kinarik Shallow 916-746-1309 kshallow@roseville.ca.us

Mayor Krista Bernasconi opened the Public hearing.

Associate Planner Kinarik Shallow made the presentation to the City Council.

Chad Roberts - Speaking on behalf of the applicant - Spoke in support of the project.

Mayor Krista Bernasconi closed the Public Hearing.

Motion by Bruce Houdesheldt, seconded by Scott Alvord, to adopt RESOLUTION NO. 21-125 AMENDING THE GENERAL PLAN TO CHANGE THE LAND USE DESIGNATIONS ON CERTAIN REAL PROPERTY IN THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 21-126 AMENDING THE SIERRA VISTA SPECIFIC PLAN; and adopt the five (5) findings of fact and introduce for first reading an ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MOURIER INVESTMENTS, LLC ("MOURIER AGREEMENT") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt the five (5) findings of fact and introduce for first reading an ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE ADOPTING A FOURTH AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("WESTPARK FEDERICO AGREEMENT") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa, Roccucci

12. COUNCIL REPORTS / PUBLIC COMMENTS

COVID-19 Update - City Manager Dominick Casey spoke on Governor Newsom's announcement to re-open California on June 15, 2021 and on letter sent by Mayor Krista Bernasconi to the Governor's Office and State Department of Health.

Northern California Power Agency Legislative and Regulatory Committee Meeting - Councilmember Pauline Roccucci spoke on the benefit of having access to more time with other members due to Zoom meetings.

Western Placer Waste Management Authority Board Meeting - Councilmember Pauline Roccucci spoke on the board's consideration of a new location for the landfill.

Nice Weather Ahead - Councilmember Tracy Mendonsa encouraged residents to use the City's bike paths and trails.

Small Business Support - Councilmember Tracy Mendonsa encouraged residents to support small business.

COVID-19 - Vice Mayor Bruce Houdesheldt spoke on vaccination rates, and metrics and thanked City Manager Dominick Casey for his presentation.

Widening of Baseline Road - Vice Mayor Bruce Houdesheldt commented on the abundance of road work being done between Fiddyment Road and the City boundary.

Housing Project in Roseville Historic District - Vice Mayor Bruce Houdesheldt spoke on litigation delaying the project.

Appointment of New City Attorney - Vice Mayor Bruce Houdesheldt congratulated Michelle Sheidenberger.

City of Roseville Employee Retirements - Councilmember Scott Alvord acknowledged the loss of over 100 years worth of institutional knowledge.

Online Security Training - Councilmember Scott Alvord appreciated cyber security training required of Councilmembers.

Social Media and First Amendment Training - Councilmember Scott Alvord spoke on taking the training.

North Hayden Bridge Opening - Councilmember Scott Alvord spoke on attending the bridge opening.

Virtual Park Planning Session - Councilmember Scott Alvord spoke on the online event.

Western Placer Development and Construction Meeting - Councilmember Scott Alvord spoke on his appreciation for the presentation provided by City staff at

the virtual meeting.

Audrey Byrnes - Mayor Krista Bernasconi conveyed good wishes to Audrey on her retirement.

Local Rotary Group - Mayor Krista Bernasconi spoke on the meeting and the group's appreciation for the update she provided regarding Council's goals and priorities.

Mayor's Cup - Mayor Krista Bernasconi announced the event to be held May 7 at the Woodcreek Golf Club

13. ADJOURNMENT

Motion by Pauline Roccucci, seconded by Bruce Houdesheldt, to adjourn the meeting at 8:07 p.m. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa, Roccucci

MINUTES
April 21, 2021

CITY COUNCIL
6:00 p.m.
Council Chambers
311 Vernon Street
Roseville, California
www.roseville.ca.us/CORTV

The meeting will be open to limited in-person attendance. To remain in compliance with the state's public health guidance, attendance will be limited to 25% of the room's capacity (15 seats) and will require 6 feet of social distancing inside and outside the council chambers. Face coverings are required and will be provided to those who don't have a mask.

Due to the limited capacity in the chambers, the public is highly encouraged to participate virtually. The meeting may be viewed on Comcast channel 14, Consolidated Communications channel 73, and AT&T U-Verse. City Council meetings are also video streamed live and are available on the City's website and YouTube channel.

Members of the public may offer public comment by phone:

Dial in Phone Number: 916-774-5353

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

1. CALL TO ORDER

Mayor Krista Bernasconi called the meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Houdesheldt, Alvord, Mendonsa, Bernasconi
Absent: Roccucci

3. PLEDGE OF ALLEGIANCE

Councilmember Scott Alvord led the Pledge of Allegiance.

4. MEETING PROCEDURES

City Clerk Sonia Orozco announced the procedures for addressing the City Council.

5. PRESENTATIONS

City Manager Dominick Casey made the presentation to the City Council.

Situational Update - Summary

- Placer County is still Tier 2 - Substantial (Red)
- Cases have risen lately, reached 9.6 per 100,000 per day as of Monday April 19
- However, vaccination efforts have been significant and successful
- The Governor announced that the tier system will be eliminated and the economy will fully reopen on June 15 if:
    - There is enough vaccine supply for Californians 16 years and older to be vaccinated
    - Hospitalization rates remain stable and low, especially among fully vaccinated Californians

* Health measures, including wearing masks will continue. Testing and vaccination requirements will remain for some businesses and industries.

- If the above measures are met and Cal/OSHA requirements aren't prohibitive, all city staff will return to the office on Monday, June 14

Situational Update - Vaccines

- Placer County is currently conducting vaccine clinics for people who live or work in Placer County who are 16 and older
- Proof of age and proof of living or working in Placer County is required
- 267,000+ does have been administered (113,000+ of those were 2nd doses
- https://www.placer.ca.gov/vaccineclinics for additional vaccine information
- On April 13, CDC and FDA recommended a pause in the use of Johnson & Johnson's vaccine because a small number of cases of rate and severe type of blood clot have been reported

Programs

The City anticipates increasing capacity in summer recreation programs and facilities being fully open and accessible

Events planned:

- Dinners to Go & Mahany Park - 2nd /4th Thursday of the month
- Farmer's Market & Mahany Park - Sundays 9:00 am - 2:00 pm, beginning May 2
- Mayor's Cup Golf Tournament - Friday, May 7
- Friday Flicks - 3rd Friday of the month (reservations required in May)
- Food Truck Mania - 3rd Thursday of the month, beginning in June
- Concerts on the Square - 3rd Saturday, beginning in June

- 4th of July - parade, festivities in Royer Park, fireworks @the Grounds

No public comment received.

For information only. No action required.

5.1. City Response to COVID-19

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

City Manager Dominick Casey made the presentation to the City Council.

No public comment received.

6. PUBLIC COMMENTS

No public comment received.

7. CONSENT CALENDAR

BEGINNING OF CONSENT CALENDAR

Motion by Scott Alvord, seconded by Tracy Mendonsa, to adopt the Consent Calendar as recommended. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa

Absent: Roccucci

Minutes

7.1. Minutes of Previous Meetings

Memo from City Clerk Technician Helen Dreyer and City Clerk Sonia Orozco recommending the City Council approve the minutes of the February 3, 2021 Closed Session, the February 3, 2021 City Council meeting, the February 17, 2021 City Council meeting, the March 3, 2021 Closed Session, the March 3, 2021 City Council meeting, the March 17, 2021 Closed Session, and the March 17, 2021 City Council meeting.

CC #: 1393

File #: 0102-03

CONTACT: Helen Dreyer 916-774-5356 hdreyer@roseville.ca.us
Sonia Orozco 916-774-5269 sorozco@roseville.ca.us

Bids / Purchases / Services

7.2. Misty Wood Park Play Structure Replacement - Contract Purchase Agreement

Memo from Park Planning & Development Superintendent Tara Gee and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 21-142 APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND PLAYPOWER LT FARMINGTON, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3001088). The play structure at Misty Wood Park has reached the end of its useful life. The structure is more than twenty years old. Staff recommends approval of a contract purchase agreement with Playpower LT Farmington, Inc. for $160,000 to remove and replace the play structure. The contract purchase agreement piggybacks National Joint Powers Alliance Contract #030117-LTS. This project was approved in FY2020-21 using funds from the Parks, Recreation & Libraries Capital Projects Fund. Ongoing maintenance costs are anticipated to remain the same and are already included in the Parks, Recreation & Libraries operations budget in the General Fund.

CC #: 1402

File #: 0704-01

CONTACT: Tara Gee 916-774-5253 tgee@roseville.ca.us

7.3. Office & Cubicle Design & Reconfiguration Services - Contract Purchase Agreement Amendment

Memo from Administrative Technician Tisha Chinn and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 21-151 APPROVING AMENDMENT 1 TO CONTRACT PURCHASE AGREEMENT BETWEEN CITY OF ROSEVILLE AND VERTEX OFFICE SOLUTIONS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3000184). Staff recommends approval of Amendment 1 to the contract purchase agreement with Vertex Office Solutions to incorporate Exhibit B, Contract Provisions for Non-Federal Entity Contracts Under Federal Awards, and authorize the City Manager to execute it. This amendment will allow the City to receive federal reimbursement for COVID related costs. There is no additional cost associated with this amendment.

CC #: 1416

File #: 0203-04

CONTACT: Tisha Chinn 916-774-5702 tchinn@roseville.ca.us

7.4. Office & Cubicle Design & Reconfiguration Services - Contract Purchase Agreement Amendment

Memo from Administrative Technician Tisha Chinn and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 21-150 APPROVING AN AMENDMENT TO CONTRACT PURCHASE AGREEMENT BETWEEN CITY OF ROSEVILLE AND SIERRA VALLEY MOVING & STORAGE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE (3001091). Staff recommends approval of an amendment to the contract purchase agreement with Sierra Valley Moving & Storage to incorporate Exhibit B, Contract Provisions for Non-Federal Entity Contracts Under Federal Awards. This amendment will allow the City to receive

federal reimbursement for COVID related costs. There is no additional cost associated with this amendment.

CC #: 1414

File #: 0203-04

CONTACT: Tisha Chinn 916-774-5702 tchinn@roseville.ca.us

7.5. Vehicle Purchases and Reject All Bids (RFQ 10-3291)

Memo from Fleet Manager Brian Craighead and Public Works Director Jason Shykowski recommending the City Council approve a purchase order to Oroville Ford, Inc. for one Ford F550 truck with a dump body utilizing RFQ 10-3289 in the amount of $104,048; and approve a purchase order to Kyle Slavin dba UAG Cerritos 1, LLC for two Chevrolet 4500 trucks with aluminum van bodies utilizing RFQ 10-3290 in the amount of $131,163. Funding for these vehicles and equipment is included in the FY2020-21 Fleet Replacement budget. Staff also recommends Council adopt RESOLUTION NO. 21-145 rejecting the bid received for RFQ 10-3291 for two Hogg & Davis Hydra 985 cable-pulling trailers. The bid received was non-responsive and the bid price was over budget.

CC #: 1392

File #: 0203-01 & 0203-21

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

7.6. Bridge Preventative Maintenance Project - Approval of Plans and Specifications and Authorization to Call for Bids

Memo from Assistant Engineer Daniel Lierly and Public Works Director Jason Shykowski recommending the City Council approve the plans and specifications for the Bridge Preventative Maintenance project and authorize staff to call for bids. The project will implement maintenance and repair measures on 16 Roseville bridges. The engineer's estimate for this project is $2,008,000 and the project is funded with $1,569,858 in Highway Bridge Program federal funds and $438,142 in Local Roadway Funds. No General Fund resources will be used for the project.

CC #: 1394

File #: 0900-04-02

CONTACT: Daniel Lierly 916-746-1300 delierly@roseville.ca.us

Resolutions

7.7. Clean Water State Revolving Fund Loan for the Pleasant Grove Wastewater Treatment Plant Expansion Project - Installment Sale Agreement Amendment

Memo from Senior Engineer Tracie Mueller and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 21-157 APPROVING AN INSTALLMENT SALES AGREEMENT AMENDMENT NO. 1, BY AND BETWEEN THE CITY OF ROSEVILLE AND THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. The Installment Sale Agreement Amendment 1 is

for a low-interest loan (1.3 percent) from the California State Water Resources Control Board for the Pleasant Grove Wastewater Treatment Plant Expansion Project to allow the City to be eligible to receive $78,347,000 from the Clean Water State Revolving Fund (CWSRF) to help provide funding for the expansion project. The Debt Service Agreement between the City and South Placer Wastewater Authority (SPWA) will allow all CWSRF loan repayment costs made by the City to be fully reimbursed by the SPWA agency partners. This will result in no direct fiscal impact to the City.

CC #: 1420

File #: 0900-02-02-2

CONTACT: Tracie Mueller 916-774-5688 trmueller@roseville.ca.us

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

Memo from Fire Division Chief Jason Rizzi and Fire Chief Rick Bartee recommending the City Council adopt RESOLUTION NO. 21-143 OF THE COUNCIL OF THE CITY OF ROSEVILLE DECLARING ALL WEEDS, DIRT, RUBBISH OR RANK GROWTHS WITHIN THE CITY OF ROSEVILLE TO BE A PUBLIC NUISANCE; ORDERING THE FIRE CHIEF TO GIVE NOTICE OF THE PASSAGE OF THIS RESOLUTION; AND SETTING A TIME AND PLACE FOR HEARING ANY OBJECTIONS TO THE PROPOSED DESTRUCTION OR REMOVAL OF SUCH WEEDS, DIRT, RUBBISH, OR RANK GROWTHS. To initiate the 2021 Weed Abatement Program, staff recommends approval of a resolution declaring weeds, rubbish, dirt, and/or rank growth within the City to be a public nuisance, as well as ordering the Fire Chief to give notice of the passage and setting a time and place for the required public hearing. The public hearing will be scheduled for the City Council meeting on Wednesday, May 19, 2021.

CC #: 1403

File #: 0320-01

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

7.9. On-Call Construction Resident Engineering and Inspection Services - Professional Services Agreement Amendments

Memo from Assistant Engineer Beth Taylor and Public Works Director Jason Shykowski recommending the City Council adopt RESOLUTION NO. 21-154 APPROVING A SECOND AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND HANNA ENGINEERING, INC. DBA THE HANNA GROUP, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 21-155 APPROVING A SECOND AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND HDR CONSTRUCTION CONTROL CORPORATION, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt RESOLUTION NO. 21-156 APPROVING A SECOND AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY

OF ROSEVILLE AND PSOMAS, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends approval of the requested agreement amendments. The amendments extend the contracts one year and increase the contract compensation not-to-exceed amount for each amendment by $1,000,000. These contracts will be funded through various approved Capital Improvement Program project budgets. No General Fund resources will be used. These contracted services allow City staff to complete more projects without hiring additional permanent City employees.

CC #: 1419

File #: 0800-04

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

7.10. Campus Oaks CO-12 Phase 2 - Final Map and Subdivision Agreement

Memo from Assistant Engineer Kerry Andrews and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 21-149 APPROVING A SUBDIVISION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND BBC ROSEVILLE OAKS, LLC AND LENNAR HOMES OF CALIFORNIA, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff also requests approval of the Campus Oaks CO-12 Phase 2 final map. Engineering has completed its review of the final map and found that it is in compliance with the approved tentative map. This map will be creating 27 residential lots. The actions requested have no fiscal impact to the City's General Fund.

CC #: 1413

File #: 0400-04-18-1 & 0400-07

CONTACT: Kerry Andrews 916-774-5346 kandrews@roseville.ca.us

7.11. Fiddyment Ranch - Phase 3 Village F-8B - Notice of Completion

Memo from Senior Construction Inspector Darin Crockett and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 21-139 RESOLUTION OF THE COUNCIL OF THE CITY OF ROSEVILLE ACCEPTING THE PUBLIC WORK KNOWN AS Fiddyment Ranch - Phase 3 Village F-8B PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING AND DIRECTING THE CITY ENGINEER TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE, THEREFORE, AND ACCEPTING ALL DEDICATIONS OFFERED ON THE RECORDED MAP OF THE SUBDIVISION. The Engineering Division has made final inspection of the project and has found the civil improvement work complete in accordance with the improvement plans and City specifications. This action has no impact to the City's General Fund. Construction costs were paid by the developer.

CC #: 1397

File #: 0400-04-09-1

CONTACT: Darin Crockett 916 751-9196 dcrockett@roseville.ca.us

7.12. Maidu Soccer Complex Irrigation Renovation Project - Notice of Completion

Memo from Park Development Analyst Joel De Jong and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt RESOLUTION NO. 21-141 ACCEPTING THE PUBLIC WORK KNOWN AS THE MAIDU SOCCER COMPLEX IRRIGATION RENOVATION PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PARKS, RECREATION AND LIBRARIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE. Staff has made a final inspection of the Maidu Soccer Complex Irrigation Renovation Project and has found that all contract work has been completed in accordance with the approved plans and specifications. The project is now ready for acceptance. Funding for the irrigation improvements was provided by a transfer of FY2018-19 General Fund resources to the Parks, Recreation & Library Capital Projects Fund for the Maidu soccer field. Maintenance of the existing citywide park is budgeted in the General Fund and will remain unchanged.

CC #: 1401

File #: 0900-07

CONTACT: Joel De Jong 916-774-5924 jdejong@roseville.ca.us

7.13. Tax Revenue Consulting Services - Professional Services Agreement

Memo from Accounting Manager Nicholas Rosas and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 21-144 APPROVING A PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND HINDERLITER, DE LLAMAS & ASSOCIATES DBA HDL COMPANIES, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE. Staff recommends approving the professional services agreement with HdL Companies for transient occupancy tax administration, short-term rental administration, business tax administration, and related consulting services. The term of the recommended agreement is two years, with an option to renew for three additional years, and an annual not-to-exceed amount of $225,000, or $450,000 over the initial two-year term. There are adequate funds available in the FY2020-21 adopted budget to fund this agreement.

CC #: 1406

File #: 0200

CONTACT: Nick Rosas 916-774-5314 nrosas@roseville.ca.us

7.14. Community Facilities District No. 4 - Intention to Annex Territory

Memo from Management Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 21-147 A RESOLUTION OF INTENTION TO ANNEX TERRITORY TO COMMUNITY FACILITIES DISTRICT AND TO AUTHORIZE THE LEVY OF SPECIAL TAXES THEREIN. Staff has set Wednesday, June 2, 2021 at 6:00 p.m., in the Roseville Civic Center, Council Chambers at 311 Vernon Street, Roseville, California, as the time and place to conduct a public hearing. On August 9, 2018, the Planning Commission approved

the developer's request for a Tentative Subdivision Map to subdivide a 2.4 acre parcel into ten (10) single family residential lots. Per the conditions of approval, the subject property shall be annexed into the existing Infill Community Facilities District No. 4 prior to approval of the Final/Parcel Map, for the purpose of covering the costs of the ongoing maintenance obligations. Parcels within this subdivision will be assigned the maximum tax rate associated within zone 4 of the Rate and Method of Apportionment, also attached. The annexation of property into Infill Community Facilities District No. 4 (Public Facilities) will not impact the City's General Fund.

CC #: 1409

File #: 0206-03-01 & 0400-04-17 & 0400-09-01

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

7.15. 2021/2022 Landscaping and Lighting Districts Assessments - Initiate Proceedings, Intent to Levy, Approval of Engineer's Reports

Memo from Management Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 21-158 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2021/2022, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 21-159 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-160 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE HISTORIC DISTRICT LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and RESOLUTION NO. 21-161 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2021/2022, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 21-162 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-163 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE INFILL AREA LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-164 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ENGINEER'S LEVY OF ASSESSMENTS FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT,

FISCAL YEAR 2021/2022, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 21-165 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-166 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ANNUAL LEVY REPORT FOR THE JOHNSON RANCH LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-167 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ENGINEER'S LEVY OF ASSESSMENTS FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 21-168 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-169 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE NORTH CENTRAL ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-170 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 21-171 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-172 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S LEVY REPORT FOR THE NORTHWEST ROSEVILLE SPECIFIC PLAN LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-173 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLTUION NO. 21-174 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-175 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE

ENGINEER'S ANNUAL LEVY REPORT FOR THE OLYMPUS POINTE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt 21-176 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2021/2022, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 21-177 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-178 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE RIVERSIDE AVENUE LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-179 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, INITIATING PROCEEDINGS FOR THE ANNUAL LEVY OF ASSESSMENTS FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, FOR FISCAL YEAR 2021/2022, PURSUANT TO THE PROVISIONS OF PART 2 OF DIVISION 15 OF THE CALIFORNIA STREETS AND HIGHWAYS CODE; and adopt RESOLUTION NO. 21-180 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, DECLARING ITS INTENTION TO LEVY ANNUAL ASSESSMENTS FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022; and adopt RESOLUTION NO. 21-181 OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, FOR PRELIMINARY APPROVAL OF THE ENGINEER'S ANNUAL LEVY REPORT FOR THE VERNON STREET LANDSCAPING AND LIGHTING DISTRICT, FISCAL YEAR 2021/2022. The City currently has eight active Landscaping and Lighting Districts (LLDs). These districts were formed within the City to levy and collect assessments for maintenance of public improvements pursuant to the Landscaping and Lighting Act of 1972, Part 2 of Division 15 of the Streets and Highways Code, and Article XIIID of the California Constitution. All charges are needed to fully fund landscape services in each LLD. There is no impact to the General Fund.

CC #: 1396

File #: 0203-08-01

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

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

7.16. Community Facilities Districts and Lighting and Landscape District - Budget Adjustments

Memo from Parks, Recreation & Libraries Superintendent Eric Dexter and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt ORDINANCE NO. 6350 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE

IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff is requesting approval of budget adjustments in eight Community Facilities Districts (CFD) and one Lighting and Landscape District (LLD) for a total of $313,296. The recommended budget adjustment will provide resources for structural repairs, new streetscapes, new parks, tree work and landscape improvements within Vernon Street LLD in the amount of $58,000, Westbrook CFD in the amount of $30,000, Stoneridge CFD in the amount of $30,000, Fiddyment CFD in the amount of $50,000, Stoneridge Parcel 1 CFD in the amount of $11,296, Crocker Ranch CFD in the amount of $40,000, Westpark CFD in the amount of $76,000, HP Campus Oaks CFD in the amount of $2,500 and North Roseville Zone E CFD in the amount of $15,500. Maintenance costs in the CFDs were greater than anticipated in the original FY2020-21 budget. Fund balances in the LLD and CFDs are sufficient to accommodate this request. There is no impact to the General Fund.

CC #: 1410

File #: 0206-08-01 & 0201-01

CONTACT: Eric Dexter 915-746-1769 edexter@roseville.ca.us

7.17. Cambria Park and Harry Crabb Park Improvements - Budget Adjustment

Memo from the Park Planning & Development Superintendent Tara Gee and Parks, Recreation & Libraries Director Jill Geller recommending the City Council adopt ORDINANCE NO. 6348 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. In FY2018-19, an allocation was approved using Parks, Recreation & Libraries rehabilitation funds for repair of the trails at the Maidu Museum. Changes in how the the trail repairs were addressed realized a savings of approximately $18,185. Concurrently, funds for both the Cambria Park shade structure and Crabb Park landscape improvements have run slightly short. Staff recommends using the savings described to offset the shortfall of the two rehabilitation projects. This request seeks approval to re-direct $8,800 toward the Cambria Park shade cover project and $9,385 to the Harry Crabb Park existing landscape frontage improvements. There will be no General Fund impact.

CC #: 1395

File #: 0704-01 & 0201-01

CONTACT: Tara Gee 916-774-5253 tgee@roseville.ca.us

7.18. Compressed Natural Gas Fueling Station Upgrade Project, Phase 2 – Contract Purchase Agreement and Budget Adjustment

Memo from Associate Engineer Jonathan Cummings and Environmental Utilities Director Richard Plecker recommending the City Council adopt RESOLUTION NO. 21-148 APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND EFS WEST, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6351 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND

DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff requests approval of a contract purchase agreement (CPA) with EFS West for upgrading and maintaining the Compressed Natural Gas (CNG) fueling station at the Corporation Yard. Staff also requests a budget adjustment to move $782,000 from existing appropriations in the Annual Rehabilitation budget in the Waste Service Rehabilitation Fund into the budget for the CNG Fueling Station Upgrade project in the same fund. The budget adjustment will cover the cost of the CPA, a ten percent project contingency, and staff time charged to the project.

CC #: 1411

File #: 0900-01-02

CONTACT: Jonathan Cummings 916-774-5566 jcummings@roseville.ca.us

7.19. Fiscal Year 2020-21 Administrative Budget Adjustments

Memo from Budget Manager Scott Pettingell and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt ORDINANCE NO. 6349 OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. Staff recommends that the City Council approve administrative adjustments to the FY2020-21 budget. There are adequate resources available within all of the impacted funds, including $325,634 to transfer from the General Fund to the General Fund contributions by Developers Fund to comply with the terms of the interfund loan related to the preparation of the Citywide Qualified Climate Action Plan and General Plan Update.

CC #: 1399

File #: 0201

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

7.20. Roseville Power Plant No. 2 Rehabilitation - Budget Adjustment

Memo from Senior Power Plant Engineer Nathan Ribordy and Electric Utility Director Michelle Bertolino recommending the City Council adopt ORDINANCE NO. 6354 ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE. This item requests approval of a budget adjustment for the Roseville Power Plant No. 2 Rehabilitation. The recommended action will allow Roseville Electric to complete the required restoration and allow the planned return to service by summer of 2021. The recommended budget adjustment of $4,500,000 will augment the existing $6,753,471 included in the Electric FY2020-21 capital improvement budget for the Roseville Power Plant No. 2 Rehabilitation project.

CC #: 1400

File #: 0900-03-01 & 0201-01

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

Ordinances (for second reading and adoption)

7.21. Second Reading - Sierra Vista Specific Plan Parcels FD-8, FD-10, FD-21, FD-23, CO-21, and CO-22 - Development Agreement Amendments

ORDINANCE NO. 6352 ADOPTING A FIRST AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE AND MOURIER INVESTMENTS, LLC ("MOURIER AGREEMENT") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE; and adopt ORDINANCE NO. 6353 ADOPTING A FOURTH AMENDMENT OF THE DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF ROSEVILLE, MOURIER INVESTMENTS, LLC, AND JOHN MOURIER CONSTRUCTION, INC. ("WESTPARK FEDERICO AGREEMENT") RELATIVE TO THE SIERRA VISTA SPECIFIC PLAN AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE, for second reading and adoption.

CC #: 1415

File #: 0400-04-12-1 & 0400-03 & 0400-04

CONTACT: Kinarik Shallow 916-746-1309 kshallow@roseville.ca.us

END OF CONSENT CALENDAR

8. COUNCIL DISCRETIONARY FUNDS REQUEST

8.1. Council Discretionary Funds Request - Gold Star Families Memorial - Roseville Cemetery

Memo from Management Assistant Heather Blanco and City Clerk Sonia Orozco recommending the City Council consider a request from the Gold Star Families of Roseville committee members, in conjunction with the Woody Williams Foundation, of $5,000 from Council Discretionary Funds to assist in fundraising efforts to construct and install a Gold Star Family Memorial Monument in the Roseville Cemetery. The Gold Star Family Memorial Monument was created by Medal of Honor Recipient Hershel "Woody" Williams to remember those families who have made the ultimate sacrifice. There is no fiscal impact to the City's General Fund.

CC #: 1421

File #: 0102

CONTACT: Heather Blanco 916-746-1171 hblanco@roseville.ca.us

City Clerk Sonia Orozco made the presentation to the City Council.

Gold Star Families Representative Jamie Hazen continued the presentation to the City Council.

Lisa Larkin - Spoke in support of the item.

Motion by Tracy Mendonsa, seconded by Scott Alvord, to approve $5,000 from Council Discretionary Funds to assist in fundraising efforts to construct and install a Gold Star Family Memorial Monument in the Roseville Cemetery. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa

Absent: Roccucci

9. RESOLUTIONS

9.1. Fiddyment Ranch Community Facilities District No. 5 - Bond Issuance

Memo from Management Analyst Jeannine Thrash and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council adopt RESOLUTION NO. 21-153 AUTHORIZING THE ISSUANCE OF SPECIAL TAX BONDS FOR AND ON BEHALF OF THE CITY OF ROSEVILLE FIDDYMENT RANCH COMMUNITY FACILITIES DISTRICT NO. 5 (PUBLIC FACILITIES), APPROVING AND DIRECTING THE EXECUTION OF A SUPPLEMENTAL AGREEMENT TO FISCAL AGENT AGREEMENT AND BOND PURCHASE AGREEMENT, APPROVING THE FORM OF PRELIMINARY OFFICIAL STATEMENT, APPROVING SALE OF SUCH BONDS, AND APPROVING OTHER RELATED DOCUMENTS AND ACTIONS. The third series of bonds is being issued at the developer's request in an amount not to exceed $30,000,000 to construct and acquire certain public facilities of benefit to the District; contribute an additional amount to the debt service reserve fund; fund capitalized interest; and pay the costs of issuing the 2021 bonds. The District was established and authorized to incur bonded indebtedness in an aggregate principal amount not to exceed $75,000,000. The Community Facilities District (CFD) will generate special taxes that will be paid by the property owners sufficient to pay the costs of the debt service, CFD administration, and any authorized pay-as-you-go facilities. The issuance of these bonds will not impact the City's General Fund.

CC #: 1418

File #: 0206-03-01

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

Assistant City Manager/Chief Financial Officer Dennis Kauffman made the presentation to the City Council.

No public comment received.

Motion by Bruce Houdesheldt, seconded by Scott Alvord, to adopt RESOLUTION NO. 21-153 AUTHORIZING THE ISSUANCE OF SPECIAL TAX BONDS FOR AND ON BEHALF OF THE CITY OF ROSEVILLE FIDDYMENT RANCH COMMUNITY FACILITIES DISTRICT NO. 5 (PUBLIC FACILITIES), APPROVING AND DIRECTING THE EXECUTION OF A

SUPPLEMENTAL AGREEMENT TO FISCAL AGENT AGREEMENT AND BOND PURCHASE AGREEMENT, APPROVING THE FORM OF PRELIMINARY OFFICIAL STATEMENT, APPROVING SALE OF SUCH BONDS, AND APPROVING OTHER RELATED DOCUMENTS AND ACTIONS. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa
Absent: Roccucci

9.2. City Council/Finance Authority - Water Infrastructure Finance and Innovation Act – Loan Agreement

Memo from Utility Government Relations Administrator Marisa Tricas, Environmental Utilities Director Richard Plecker and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council, as the Roseville Finance Authority, adopt RESOLUTION NO. 1-21 AUTHORIZING ISSUANCE AND SALE OF A WATER REVENUE BOND TO FINANCE IMPROVEMENTS TO THE WATER UTILITY SYSTEM; AUTHORIZING ENTRANCE INTO, AND APPROVING THE FORM OF, A WIFIA LOAN AGREEMENT, SUPPLEMENTAL INSTALLMENT PURCHASE CONTRACT AND TRUST AGREEMENT AND DOCUMENTS RELATED THERETO; AND AUTHORIZING THE TAKING OF CERTAIN ACTIONS IN CONNECTION THEREWITH; and the City Council adopt RESOLUTION NO. 21-140 AUTHORIZING ENTRANCE INTO, AND APPROVING THE FORM OF A WIFIA LOAN AGREEMENT AND A SUPPLEMENTAL INSTALLMENT PURCHASE CONTRACT TO FINANCE IMPROVEMENTS TO THE CITY'S WATER UTILITY SYSTEM, AND AUTHORIZING THE TAKING OF ACTIONS IN CONNECTION THEREWITH. Staff recommends that City Council, as well as City Council acting in their capacity as the Roseville Finance Authority, approve the United States Environmental Protection Agency's Water Infrastructure Finance and Innovation Act (WIFIA) loan agreement and related documents. The WIFIA program provides long-term low interest loans for investment in water, wastewater, and recycled water infrastructure projects. The City will use the WIFIA loan proceeds toward project costs for aquifer storage and recovery wells, tertiary filters, and a potable reuse pilot project. The WIFIA loan, for approximately $33.4 million, represents 49% of eligible project costs, plus loan closing costs and funding of a debt service reserve. The City anticipates financing the remaining 51% of eligible project costs with a future bond issue. The financed projects will be budgeted in the Water Fund, Wastewater Regional Rehabilitation Fund, and Wastewater Rehabilitation Fund. This item has no fiscal impact on the General Fund.

CC #: 1405

File #: 0800-02

CONTACT: Marisa Tricas 916-746-1828 mtricas@roseville.ca.us
Richard Plecker 916-774-5714 rplecker@roseville.ca.us

Environmental Utilities Director Richard Plecker made the presentation to the City Council.

No public comment received.

Motion by Bruce Houdesheldt, seconded by Tracy Mendonsa, to adopt RESOLUTION NO. 1-21 BY THE CITY COUNCIL AS THE ROSEVILLE FINANCE AUTHORITY, AUTHORIZING ISSUANCE AND SALE OF A WATER REVENUE BOND TO FINANCE IMPROVEMENTS TO THE WATER UTILITY SYSTEM; AUTHORIZING ENTRANCE INTO, AND APPROVING THE FORM OF, A WIFIA LOAN AGREEMENT, SUPPLEMENTAL INSTALLMENT PURCHASE CONTRACT AND TRUST AGREEMENT AND DOCUMENTS RELATED THERETO; AND AUTHORIZING THE TAKING OF CERTAIN ACTIONS IN CONNECTION THEREWITH; and the City Council adopt RESOLUTION NO. 21-140 AUTHORIZING ENTRANCE INTO, AND APPROVING THE FORM OF A WIFIA LOAN AGREEMENT AND A SUPPLEMENTAL INSTALLMENT PURCHASE CONTRACT TO FINANCE IMPROVEMENTS TO THE CITY'S WATER UTILITY SYSTEM, AND AUTHORIZING THE TAKING OF ACTIONS IN CONNECTION THEREWITH. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa

Absent: Roccucci

10. SPECIAL REQUESTS/REPORTS/PRESENTATION

10.1. Fiscal Year 2020-21 Second Quarter Financial Report

Memo from Budget Manager Scott Pettingell and Assistant City Manager/Chief Financial Officer Dennis Kauffman recommending the City Council receive an informational report that includes financial data for the first two quarters of Fiscal Year 2020-21 for the General Fund, the enterprise operating funds, and revenues in selected other funds. This is the first quarterly report to include a sales tax summary prepared by the City's sales tax consultant. The sales tax summary provides a list of the top 25 sales tax remitters, a summary of cash receipts, and sales tax data by economic category. This item is a financial update only and has no fiscal impact.

CC #: 1398

File #: 0202-01

CONTACT: Scott Pettingell 916-774-1306 spettingell@roseville.ca.us

Assistant City Manager/Chief Financial Officer Dennis Kauffman made the presentation to the City Council.

No public comment received.

For information only. No action taken.

10.2. Capital Improvement Projects Preview for Fiscal Year 2021-22

Memo from Public Works Director Jason Shykowski recommending the City Council receive an overview of the major capital improvement projects (CIP's)

planned for the coming fiscal year. This presentation will include a preview of major CIP's for all City departments. There is no fiscal impact from this presentation. CC #: 1404
File #: 0801
CONTACT: Jason Shykowski 916-774-5331 jshykowski@roseville.ca.us

Public Works Director Jason Shykowski made the presentation to the City Council.

No public comment received.

For information only. No action taken.

11. PUBLIC HEARING

11.1. Density Bonus Ordinance Update

Memo from Senior Planner Lauren Hocker and Development Services Director Mike Isom recommending the City Council adopt the two (2) findings of fact and introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE CHAPTER 19.28 OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE (RESIDENTIAL DENSITY BONUS). The Density Bonus Update project is a request to amend Chapter 19.28 of Title 19 of the Roseville Municipal Code (Residential Density Bonus) to be consistent with recent changes to state law. The project has no impact on the City's General Fund.

CC #: 1412

File #: 0709-03

CONTACT: Lauren Hocker 916-774-5272 lhocker@roseville.ca.us

Mayor Krista Bernasconi opened the Public Hearing.

Development Services Director Mike Isom provided background information for items 10.1, 10.2, and 10.3 to the City Council.

Senior Planner Lauren Hocker made the presentation to the City Council.

La Mills Garrett - spoke in support of City Council implementing policy that addresses transportation opportunities or issues that arise from this update to the municipal code.

Paul Griffin - Spoke in support of long-range planning to expand transportation opportunities in other parts of the city.

Mayor Krista Bernasconi closed the Public Hearing.

Motion by Bruce Houdesheldt, seconded by Tracy Mendonsa, to adopt the two

2 findings of fact and introduce for first reading ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE CHAPTER 19.28 OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE (RESIDENTIAL DENSITY BONUS). The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa

Absent: Roccucci

11.2. Objective Design Standards

Memo from Associate Planner Gina McColl and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 21-152 APPROVING THE OBJECTIVE DESIGN STANDARDS; and adopt the two (2) findings of fact and introduce for first reading an ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 19.74.010 OF CHAPTER 19.74 AND SECTION 19.95.030 OF CHAPTER 19.95 OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE REGARDING PERMIT AND VARIANCE REQUIREMENTS AND ZONING DEFINITIONS. The Objective Design Standards project is a request to amend portions of Title 19 of the Roseville Municipal Code for the purpose of establishing a streamlined ministerial review of qualified affordable housing projects, consistent with SB 35 and AB 2162. The request also includes approval of Objective Design Standards which will be used in lieu of the City's Community Design Guidelines to evaluate qualified affordable housing projects during building permit review. Projects which use the Objective Design Standards process in lieu of a Design Review Permit will pay $156 in lieu of the $8,000 deposit required for a Design Review Permit. Due to the streamlined process, the Objective Design Standards process will not have a negative impact on the City's General Fund.

CC #: 1417

File #: 0800-06

CONTACT: Gina McColl 916-774-5452 gmccoll@roseville.ca.us

Mayor Krista Bernasconi opened the Public Hearing.

Associate Planner Gina McColl made the presentation to the City Council.

Senior Planner Lauren Hocker provided clarification to the City Council.

No public comment received.

Mayor Krista Bernasconi closed the Public Hearing.

Motion by Bruce Houdesheldt, seconded by Scott Alvord, to adopt RESOLUTION NO. 21-152 APPROVING THE OBJECTIVE DESIGN STANDARDS; and adopt the two (2) findings of fact and introduce for first reading an ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 19.74.010 OF CHAPTER 19.74 AND SECTION 19.95.030 OF CHAPTER 19.95 OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE REGARDING PERMIT AND VARIANCE REQUIREMENTS

AND ZONING DEFINITIONS. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa

Absent: Roccucci

11.3. Accessory Dwelling Unit Ordinance and Fee Policy Update

Memo from Assistant Planner Sean Morales and Development Services Director Mike Isom recommending the City Council adopt RESOLUTION NO. 21-146 AMENDING THE ACCESSORY DWELLING UNITS FEE POLICY; and adopt the two (2) findings of fact and introduce for first reading the ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE CHAPTER 19.60 OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE REGARDING ACCESSORY DWELLING UNITS. The Accessory Dwelling Unit Ordinance Update project is a request to amend the Roseville Municipal Code and the City's Accessory Dwelling Unit (ADU) fee policy in response to changes in state law related to Accessory Dwelling Units and Junior Accessory Dwelling Units. The amendment includes adjustments to Chapter 19.60 of the Zoning Ordinance. These proposed changes will bring that chapter of the City's Zoning Ordinance into compliance with state law. The project also includes an amendment to the ADU fee policy to bring it into compliance with state law. The project has no impact on the City's General Fund.

CC #: 1408

File #: 0800-06 & 0400-02

CONTACT: Sean Morales 916-774-5282 smorales@roseville.ca.us

Mayor Krista Bernasconi opened the Public Hearing.

Assistant Planner Sean Morales made the presentation to the City Council.

Senior Planner Lauren Hocker provided clarification to the City Council.

Development Services Director Mike Isom provided clarification to the City Council.

No public comment received.

Mayor Krista Bernasconi closed the Public Hearing.

Motion by Scott Alvord, seconded by Tracy Mendonsa, to adopt RESOLUTION NO. 21-146 AMENDING THE ACCESSORY DWELLING UNITS FEE POLICY; and adopt two (2) findings of fact and introduce for first reading the ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING ZONING ORDINANCE CHAPTER 19.60 OF TITLE 19 OF THE ROSEVILLE MUNICIPAL CODE REGARDING ACCESSORY DWELLING UNITS. The Motion Passed.

Roll call vote: Ayes: Alvord, Bernasconi, Houdesheldt, Mendonsa

Absent: Roccucci

12. COUNCIL REPORTS / PUBLIC COMMENTS

Placer County Transportation Planning Agency Meeting - Councilmember Scott Alvord reported on attendance.

Roseville Coalition of Neighborhood Associations Westpark and Fiddyment Farms General Board Meeting - Councilmember Scott Alvord reported on attendance.

Placer County Economic Development Board Meeting - Councilmember Scott Alvord reported Sutter Health CEO has joined the board.

Zoom Call with Daisy Troop 3182 - Councilmember Scott Alvord reported on discussion concerning community service.

Water Infrastructure Finance and Innovation Act - Councilmember Scott Alvord spoke on how the loan ensures water availability for the City.

Capitol Corridor Joint Powers Authority Meeting - Vice Mayor Bruce Houdesheldt spoke on expansion of bus routes from Sacramento to El Dorado Hills

Sites Reservoir Meeting - Vice Mayor Bruce Houdesheldt spoke on Governor Newsom's declaration of drought in two counties.

Swearing in of New Police Chief - Mayor Krista Bernasconi congratulated Troy Bergstrom on officially becoming the police chief.

Wyland Foundation's National Mayor's Challenge for Water Conservation - Mayor Bernasconi announced the City is currently in first place in the challenge and encouraged residents to take the pledge to make the long-term commitment to manage water efficiently.

Mayor's Cup Golf Tournament - Mayor Krista Bernasconi announced the event scheduled on May 7th.

13. ADJOURNMENT

Council consensus to adjourn the meeting at 7:52 p.m.

MINUTES
April 29, 2021

SPECIAL MEETING NOTICE
CITY COUNCIL GOAL PLANNING WORKSHOP
9:00 a.m.
Martha Riley Library Community Room
1501 Pleasant Grove Boulevard
Roseville, California
www.Roseville.ca.us

The meeting will be open to limited in-person attendance. To remain in compliance with the state's public health guidance, attendance will be limited to 25% of the room's capacity (15 seats) and will require 6 feet of social distancing inside and outside the community room. Face coverings are required and will be provided to those who don't have a mask.

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

1. CALL TO ORDER AND WELCOME

Mayor Krista Bernasconi called the workshop to order at 9:00 a.m. and made opening remarks.

2. PUBLIC COMMENTS

No public comment received.

3. REVIEW WORKSHOP OBJECTIVES, GROUND RULES, AND TODAY'S AGENDA

City Manager Dominick Casey made remarks and introduced Greg Larson from Management Partners. Greg Larson, Management Partners, covered the workshop objectives, agenda, and ground rules.

Objectives:

- Strengthen the City leadership team
- Address Council districting impacts
- Review City goals and strategies
- Establish Council priorities through 2022

Ground rules:

- Listen to understand
- Assume good intent
- Pursue consensus
- Speak up if we need course correction
- Maintain COVID safety

Bike Rack:

- Time management tool
- Things to discuss at another time will be traced separately

4. CELEBRATE ACCOMPLISHMENTS

Celebrating Accomplishments:

- Shifted available funds into strategic reserves
- Moved ahead on housing projects
- Completed the Charter update
- Attracted new businesses
- Opened new parks
- Added police staffing
- New fire station
- Financially solvent

5. WORKING TOGETHER

City Council as a Team:

- Relationships with community
- Humanity based
- Invested in success of Roseville
- Superior communication by Public Affairs
- Responsiveness to community concerns
- Worked closely with Placer County and other cities and hospitals
- Election year - Districts - Three councilmembers elected
- Measure B funding kept programs afloat
- Partnerships with community - family meals, Chamber of Commerce and neighborhood associations

Strength Finder:

- The City Council as a Team Using *StrengthFinder*
    - Talent plus investment to the team
    - 34 different themes
        - Top strengths

        - Executing
        - Influencing
        - Relationship Building
        - Strategic Thinking
        - Influencing
        - Activator
        - Command
        - Competition
        - Communication
        - Maximizer
        - Significance
        - Self-Assurance
        - Woo

- Four Domains of Leadership
    - Executing, Influencing, Relationship Building, Strategic Thinking

- Individual Strengths Discussion:
    - Mayor Krista Bernasconi - Communication, Arranger, Confidence
    - Vice Mayor Bruce Houdesheldt - Woo, Initiating with Strangers
    - Councilmember Scott Alvord - Futuristic, Achiever, Faith based
    - Councilmember Pauline Roccucci - Never Give up, Unique, Learner, Individualization
    - Councilmember Tracy Mendonsa - Individualization, Competition, Responsibility, Achiever
    - City Manager Dominick Casey - Arranger, Learner, Arranger, Belief, Responsibility
    - City Attorney Michelle Sheidenberger - Learner, Achiever, Positivity, Strategic

- Strengths the City Council, City Manager and City Attorney Share:
    - Learner
    - Achiever
    - Relator
    - Individualization
    - Arranger
    - Positivity
    - Belief
    - Responsibility
    - Self-Assurance

- One Roseville with Council Districts
    - Set the Foundation for Governing Together
        - Review prior One Roseville Council direction
        - Review Council feedback from the interviews
        - Consider additional norms or guidelines
        - Governing in the interest of all residents and not just the residents of a single district - allows for the continuation of accessible customer service, the most effective use of taxpayer resources, and consistency in city services
        - Any member of the City Council may respond to and assist

anyone in the community who calls or contacts them regardless of residence in or representation of any particular district
- Current practices regarding invitations to members of the City Council to events and activities, and the process with respect to appointments to committees and various bodies with remain in effect
- Use neighborhoods to the extent possible
- City Budget Development - consistent with the General Principles of Governance adopted by the City Council in the Elections Ordinance, the City shall maintain a citywide focus during the budget development process and in the adopted budget. Revenues and expenditures shall be budgeted on a citywide basis and not tracked by Council district

Redistricting:
- Everything will change with new Council district map
- Council should be neutral and serve whole community
- Elected by district - but two still at-large
- Don't put district on business cards - majority
- Consistency with city website and business cards - communications - find a new balance
- Share responsibility of education - district verses citywide
- Communicate neighborhoods verses districts
- Elected serves neighborhoods
- Website - statement that City Council serves the whole community
- Consensus to use "neighborhood" verses "districts"
- Web page - concern, call Mayor, Vice Mayor or any member of Council

City Council were provided a presentation on the Roseville Resident Survey results with Roseville scoring high in many factors.

Ceremonial Events:
- Notifications of celebrations within districts - ribbon cutting, ground breaking - how do we do it? Making sure Councilmembers within district be notified of events and don't use social media outside of your geographic area - courtesies - involve all Council members
- Ceremonial - Mayor and/or staff extends invitations to all Councilmembers - differs to Mayor's direction - to the extent that the host is acceptable - invite whole Council
- Personal Relationship Invitations - people want to talk to the person they elected

6. LUNCH BREAK

Recess at 11:58 a.m.
Reconvene at 1:00 p.m.

7. AFFIRM MISSION, VISION AND VALUES, AND REVIEW COMMUNITY

SURVEY RESULTS

Continuing Response to the Pandemic:

- Return to normal operations in a safe manner as soon as possible (for physical and mental health)
- Continuing assistance to small businesses and residents as allowed
- Identify customer service improvements and operating efficiencies to maintain beyond the pandemic
- When do we come out of executive order emergency orders?
- Workload constraints, funding constraints

Goal A: Remain fiscally responsible in a changing world

- Address pension and other liabilities, increase transportation funding, attract new businesses, balance utility operating costs to maintain competitive rates

Goal B: Support community engagement and advocacy

- Restart the City of Roseville news bureau, provide more context about budget and financial conditions including unfunded mandates, enhance outreach to youth/young adults, raise awareness of advocacy efforts

Goal C: maintain a safe and healthy community

- Deploy police body cameras; continue focus on homelessness response/and partnerships, ensure service levels align with city growth; strengthen inclusiveness, equality, and justice efforts in partnership with the community for all

Goal D: Economic vitality:

- Expand on sports tourism and recreation opportunities, consider options for vacant storefront, job growth incubators and other economic growth

Goal E: Deliver exceptional city services

- Return to normal operations while maintaining best practices that we learned from the remote experience such as customer-service improvements and operating efficiencies; address staffing turnover and challenges and succession planning; implement Customer Service Software (formerly known as CRM); maintain vigilance on community standards to address blight and graffiti, hold community cleanups, call in problem areas while serving community

Goal F: Invest in well-planned infrastructure and growth

- Revitalize core neighborhoods; support opportunities for more affordable housing; develop strategy and implementation plans for water resiliency and electrification of the transportation grid

8. REVIEW CITY GOALS AND STRATEGIC PRIORITIES, UPDATE AS REQUIRED

Keeping Focused on Priorities - Constraints:

- State and federal mandates
- Potential recession

- Rising traffic impacts locally and regionally
- Pension and other liabilities

What We Do Well to stay focused on Priorities:

- Council agenda items linked to the Strategic Plan
- Council provides clear vision and priorities
- Staff delivers on goals and strategies
- Respectful and collegial with diverse perspectives
- Coordinate all City communications
- Continue to strengthen the team
- Courteous to each other's district residency

Where we council improve:

- Find ways to engage new businesses and residents in the City's Strategic Plan
- Assist Council in using the Strategic Plan for broader communications

9. WRAP-UP

Councilmembers, City Manager, and City Attorney were requested to provide Tweet language relating to Roseville ten years from now;

- Roseville City Council renews City Manager Dominick Casey's contract for five years
- New businesses and prosperity
- West Roseville Sports Center is up and running - national success
- Roseville named nations safest city
- Capital Corridor expands to 10 commuter trips from Roseville to Sacramento
- Roseville lands mayor university
- Roseville only city in Sacramento area to meet RHNA numbers
- Roseville voted highest quality of life in the nation
- Roseville earns triple A bond rating

Mayor Krista Bernasconi adjourned the workshop at 3:35 p.m.

COUNCIL COMMUNICATION

CC #: 1512
File #: 0704-02

Title:	On-Call Fence Construction Services – Contract Purchase Agreement
Contact:	Eric Dexter 916-746-1769 edexter@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.2.

RECOMMENDATION TO COUNCIL

Staff recommends Council adopt resolutions authorizing the City Manager to execute on-call contract purchase agreements with Crusader Fence Company LLC and Linmoore Fencing & Iron Works, Inc., allowing for installation and repair of fencing citywide. Additionally, authorize the City Manager to execute the remaining renewal years without further Council approval, contingent upon approval of the Parks, Recreation & Libraries budget in each subsequent year as well as approval of bonds by the City Attorney's office.

BACKGROUND

In March 2021, the Parks, Recreation, & Libraries Department issued a Request for Proposals (RFP) to provide fence construction and repair services on an as-needed basis. Three (3) firms submitted proposals. The companies were evaluated by staff from the Parks Division. Crusader Fence Company LLC and Linmoore Fencing & Iron Works, Inc. were selected based on experience, understanding and ability to respond to on-call fence construction and repairs in a timely manner.

FISCAL IMPACT

The amount of the service agreement for FY2021-22 is $100,000 for Crusader Fence Company LLC and $275,000 for Linmoore Fencing & Iron Works, Inc. with $30,000 from the General Fund budget and $345,000 from Community Facility District/Lighting & Landscape District budgets. This expense is included in the FY2021-22 budget. The agreement also includes a one (1) year base term with the option of four (4) additional one (1) year extensions, not to exceed a total of $1,990,926 for the five year period. Over this five year period, the amount of the service agreement will total $530,914 for Crusader Fence Company LLC and $1,460,012 for Linmoore Fencing & Iron Works, Inc. Of these amounts, it is expected that $159,274 will come from the General Fund and $1,834,652 will come from Community Facility Districts/Lighting & Landscape Districts, to be included in subsequent years' budgets.

ENVIRONMENTAL REVIEW

The proposed project involves replacement, reconstruction of existing fencing. This activity is categorically exempt from CEQA as a Class 2 Exemption (State CEQA Guidelines Section 15302). Construction of new fencing is also categorically exempt as a Class 3 Exemption (State CEQA Guidelines Section 15303). The proposed project also involves the construction of a limited number of small facilities. This activity is categorically exempt from CEQA as a Class 3 Exemption (State CEQA Guidelines Section 15303). The Exemptions has been prepared and no further CEQA action is required.

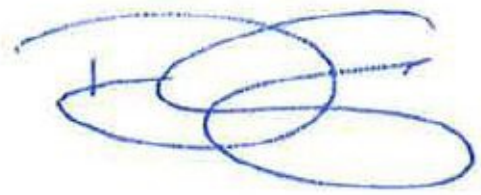
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal E - Deliver exceptional city services

Respectfully Submitted,

Eric Dexter, Parks, Recreation & Libraries Superintendent

Jill Geller, Parks, Recreation, & Libraries Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution No. 21-250

Crusader Contract

Resolution No. 21-251

Linmoore Contract

Linmoore bonds

RESOLUTION NO. 21-250

APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CRUSADER FENCE COMPANY, LLC, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a contract purchase agreement (3001125) for on-call fence construction services, between the City of Roseville and Crusader Fence Company, LLC, has been reviewed by the Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said agreement is approved and the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute four (4) additional one (1) year renewals without further City Council approval, provided that the applicable budget is approved by the City Council each year, or until City staff determines that continuing with the same vendor is not in the City's best interest.

PASSED AND ADOPTED by the Council of the City of Roseville this ___ day of _____, 2021, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

Contract Purchase Agreement 3001125

Supplier Details:

Company	Crusader Fence Company LLC
Contact	Codi Boek
Address	3115 Gold Valley Drive
	Rancho Cordova, CA 95742

Submit your response to:

Company	City of Roseville
Contact	Sue Jessup
Address	Purchasing Division
	2075 Hilltop Circle
	Roseville, CA 95747
Phone	(916) 746-1702
Fax	(916) 774-5736
E-mail	SJessup@roseville.ca.us

This Contract Purchase Agreement is sent for your review and acceptance. Notify the Buyer via email of any needed changes to the company name, address, and contact information. The Buyer will update the agreement prior to you signing the document.

Return signed copies of the agreement to the Buyer noted on the agreement. Alterations or modifications to the agreement are not allowed. Upon receipt of all necessary documents, the City will sign the agreement and return a fully executed copy to you. Receipt of the signed copy will be your notice to proceed with the work in accordance with the terms and conditions of the agreement. Work must not begin until the contract has been fully executed.

The following guidelines must be followed for the signature block on the agreement:

Sole proprietorship - **By owner**

Partnership - **Any general partner**

Corporation - **Two options:**
(1) A signature from the President and the corporate seal; **OR**
(2) One signature from the Chairman of the Board, President, or any Vice President **AND** one signature from the Secretary, any Assistant Secretary, Chief Financial Officer, or any Treasurer or Assistant Treasurer of the corporation

*General Manager, Office Manager and/or Sales Manager are **not** corporate officer titles. The agreement will be rejected if not signed in accordance with these guidelines.

Insurance requirements:
The City's insurance requirements are referenced on Attachment A of the agreement. By signing the agreement, you are confirming that your company has the minimum insurance limits required.

CITY OF ROSEVILLE CALIFORNIA

Contract Purchase Agreement 3001125

Agreement	3001125
Agreement Date	17-MAR-2021
Revision	0
Agreement Amount	100,000.00 USD

Invoice To	**City of Roseville** **Accounts Payable** **311 Vernon St** **ROSEVILLE CA 95678**	Supplier	**Crusader Fence Company LLC** 3115 Gold Valley Drive Rancho Cordova, CA 95742
Phone:	(916) 774-5488	**Phone:**	(916) 661-2681
Fax:	(916) 784-3796	**Fax:**	(916) 631-8989
Email:	accountspayable@roseville.ca.us	**Email:**	codi@crusaderfence.com

Description of Labor, equipment and/or materials

THE CONTRACTOR SHALL PROVIDE SERVICES CALLED FOR UNDER CITY OF ROSEVILLE REQUEST FOR PROPOSAL #13-091 AND CONTRACTOR'S PROPOSAL THERETO TITLED "CRUSADER FENCE COMPANY ON-CALL FENCE CONSTRUCTION SERVICES PROPOSAL" (HEREINAFTER "PROPOSAL"). THE TERMS AND SCOPE OF WORK OF CITY OF ROSEVILLE REQUEST FOR PROPOSAL #13-091 AND CONTRACTOR'S PROPOSAL ARE HEREIN MADE PART OF THIS CONTRACT PURCHASE AGREEMENT AND FULLY INCORPORATED BY REFERENCE.

START DATE: EXECUTED AGREEMENT
END DATE: 6/30/22

ALL WORK MUST BE QUOTED AND APPROVED BEFORE WORK CAN BEGIN.

For questions contact Shelby Craig in the Parks, Recreation & Libraries Department at (916) 746-1746 or by email at SCraig@roseville.ca.us

*The total agreement amount is an approximation only. The City does not guarantee whatsoever the actual value of this agreement.

Customer #	Supplier #	Payment Terms	Freight Terms	FOB	Shipping Method
	10512	**Net 30**	**Freight on Board at the destination**	**Destination**	**Best Method**
Start Date		End Date	Confirm To		
			Sue Jessup Phone **1-916-746-1702**		

Attention: Total Cost not to exceed the agreement amount without prior approval of the Purchasing office.

Contract Terms and Conditions

1. To the fullest extent allowed by law, Contractor shall defend, indemnify, and save and hold harmless the City, its officers, agents, employees and volunteers from any claims, suits or actions of every name, kind and description brought forth, or on account of, injuries to or death of any person (including but not limited to workers and the public), or damage to property, resulting from or arising out of Contractor's willful misconduct or negligent act or omission while engaged in the performance of obligations or exercise of rights created by this Agreement, except those matters arising from City's sole or active negligence or willful misconduct. The parties intend that this provision shall be broadly construed. Contractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.

2. Contractor is an independent contractor, and shall not be considered an officer, agent or employee of the City.

3. Without the written consent of the City, this Agreement is not assignable by Contractor either in whole or in part.

4. Time is of the essence of this Agreement.

5. At any time during the term of this Agreement, the City has the right to terminate this Agreement, provided Contractor is given thirty (30) days written notice. City's termination shall be without further liability to City; however, Contractor shall be entitled to all costs reasonably incurred prior to the date of termination. Contractor acknowledges that City may terminate this Agreement should funds not be appropriated by its governing body to continue services under this Agreement.

6. This Agreement may only be amended or modified in writing. It is integrated and contains the complete understanding of the parties.

7. All equipment, supplies and services sold to the City of Roseville shall conform to the general safety orders of the State of California.

8. Unless notified to the contrary, in writing, the City assumes that the Contractor has accepted the work in accordance with the plans and specifications (if any) and agrees to do the work in compliance with this Agreement.

9. All prevailing wages and fair employment practices must be adhered to. For prevailing wage contracts over $25,000, copies of certified payroll must be submitted with invoices. Prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm.

10. Contractor agrees to the below insurance requirements:

    a. Unless otherwise specified, the Contractor shall maintain the policies of insurance outlined in Attachment A, incorporated herein by this reference, in full force and effect during the term of this Agreement. The City of Roseville retains sole discretion in determining the types and proper levels of insurance coverage.

b. Form. Contractor shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney.

c. Additional Insureds. Contractor shall also provide a separate endorsement or section of the policy showing City, its officers, agents, employees, and volunteers as additional insureds for each type of coverage (except Workers' Compensation) and for ongoing and completed operations. Such insurance shall specifically cover the contractual liability of Contractor. The additional insured coverage under the Contractor's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from City's insurance or self-insurance. In addition, the additional insured coverage shall be at least as broad as the Insurance Services Office (ISO) CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be:

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

d. Cancellation/Modification. Contractor shall provide ten (10) days written notice to City prior to cancellation or modification of any insurance required by this Agreement.

e. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of City (if agreed to in a written contract) before City's own insurance shall be called upon to protect it as a named insured.

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

g. Self-Insured Retentions. All self-insured retentions (SIR) must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.

h. Waiver of Subrogation. Contractor hereby agrees to waive subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General

Liability and Automobile Liability policies shall be endorsed with a waiver of subrogation in favor of City, its officers, agents, employees and volunteers for all work performed by Contractor, its employees, agents and subcontractors.

i. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve Contractor of liability in excess of such coverage, nor shall it preclude City from taking such other actions as are available to it under any other provisions of this Agreement or law.

11. Contractor shall comply with all federal, state and local laws and ordinances, including but not limited to the City's storm water regulations, as may be applicable to the performance of services under this Agreement. Failure to comply with local ordinances may result in monetary fines and cancellation of this Agreement. Refer to www.roseville.ca.us/stormwater for links to more information on the City's storm water regulations.

12. In the event that the terms of any attachment or exhibit conflict with any terms of this Agreement, the terms of this Agreement shall control.

13. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by e-mail delivery of a ".pdf" format data file, such signature shall create a valid and binding obligation of the party executing (or on whose behalf such signature is executed) with the same force and effect as if such facsimile or ".pdf" signature page were an original thereof.

14. If either party commences any legal action against the other party arising out of this Agreement or the performance thereof, the prevailing party in such action shall be entitled to recover its reasonable litigation expenses, including but not limited to, court costs, expert witness fees, discovery expenses, and attorneys' fees. Any action arising out of this Agreement shall be brought in Placer County, California, regardless of where else venue may lie. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

15. This Agreement shall be binding upon the heirs, successors, executors, administrators and assigns of the respective parties hereto.

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

17. For purposes of this Agreement, the terms "Contractor," "Consultant," and "Supplier" are used interchangeably.

18. No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this agreement, Contractor and its subcontractors shall have a continuing legal obligation to maintain current registration with the Department of Industrial Relations. Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

19. Contractor must submit all claims as defined in and in accordance with the claim resolution process set forth in Section 9204 of the Public Contract Code. Each such claim must be sent to the City by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the claim. All claims must be received prior to acceptance of the work.

20. CONTRACTOR agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONTRACTOR and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY.

    CONTRACTOR and CITY agree that: (a) CONTRACTOR is free from the control and direction of CITY in connection with the performance of the work; (b) CONTRACTOR is providing services directly to CITY; (c) CONTRACTOR has and will maintain at all relevant times a business license; (d) CONTRACTOR maintains a business location that is separate from CITY; (e) CONTRACTOR is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONTRACTOR actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONTRACTOR advertises and holds itself out to the public as available to provide the same or similar services; (h) CONTRACTOR provides its own tools, vehicles, and equipment to perform the services; (i) CONTRACTOR has negotiated its own rates; (j) CONTRACTOR set its own hours and location of work in accomplishing CITY's on-call needs; and (k) CONTRACTOR has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.
21. Contractor certifies that Contractor, its employees, directors, officers, agents, subcontractors, vendors, and volunteers are not presently debarred, excluded, suspended, declared ineligible, voluntarily excluded, or proposed for debarment, exclusion, suspension or ineligibility by any federal, state, or local department or agency.

22. This Agreement may be amended via change order, but only if such change order is made in writing, approved by the City, and signed by both parties.

The supplier named hereon by the acceptance of this order agrees to the provisions of this document titled "Contract Purchase Agreement" and all accompanying terms, conditions, and attachments.

Roseville Business License No. 00842602

Contractor License No. 1056652

DIR Registration No. 1000449929

Check mark the applicable company type below:

_____ **Corporation**

__X__ **Limited Liability Company**

_____ **Partnership**

_____ **Sole Proprietor**

City Reserves the right to withold any payments to contractor in the event of noncompliance with insurance requirements or if required by law.
Construction T&C
REV 3/2/21 JS

ATTACHMENT A
HUMAN RESOURCES/RISK MANAGEMENT DIVISION
INSURANCE REQUIREMENTS
AGREEMENT OVER FORMAL BID LIMIT OR INVOLVING HIGH RISK ACTIVITIES

General - Required Coverage/Documentation

- General Liability: $1 Million per occurrence /$2 Million aggregate
- Automobile Liability: $1 Million combined single limit
- Workers' Compensation: Statutory *Must provide a Waiver of subrogation
- Additional Insured Endorsement (AIE) - General Liability policy: CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsement shall cover the City of Roseville, its officers, agents, employees and volunteers as additional insured.
- Policies must be primary and non-contributory
- A 30 day notice of cancellation must be provided
- List certificate holder as: The City of Roseville - Insurance Compliance, PO Box 100085-R1, Duluth, GA 30096

Additional Liability/Insurance Requirements if required by Agreement (and marked below):

Construction:_X___
General Liability:
$2 Million/occurrence
$4 Million aggregate

Design Professional:____
General Liability:
$2 Million/occurrence
$4 Million aggregate
Professional Liability:
$2 Million/occurrence

Professional Consultant:____
Professional Liability:
$1 Million/occurrence

IT Services:____
Professional Liability:
$1 Million/occurrence
No auto required

Hazardous Materials:____
Pollution Liability:
$1 Million/occurrence

Special Events/Caterers-Vendors:____
No auto required
No workers' comp required

Professional Counseling/ Psychological:____
Professional Liability:
$1 Million/occurrence
No auto required

Pyrotechnics:____
General Liability:
$5 Million/occurrence
$10 Million aggregate
Auto - $2 Million/occurrence

Chemical/Environmental:____
General Liability:
$3 Million/occurrence
$6 Million aggregate
Pollution – $2 Million/Occurrence
Auto - $2 Million/Occurrence

Insurance Submission Process

The City of Roseville Human Resources/Risk Management Department uses a service called EBIX to manage our insurance certificate tracking.

How It Works

- The vendor's contact information is entered into EBIX. EBIX will contact the vendor to request proof of insurance.
- The Vendor can forward the request to their Insurance Agent(s) if necessary.
- Vendor/Insurance Agent submits insurance to EBIX by email to roseville@ebix.com or by fax to (770) 325-5727. After faxing or emailing the certificate, please DO NOT send the certificate by mail to EBIX. Please do not mail, email or fax any certificates to the City of Roseville.
- Once submitted, EBIX reviews the insurance documentation. If there are deficiencies, EBIX will send a follow up letter or email requesting additional information.

Questions Regarding Insurance Submission: Contact EBIX at (951) 652-4239
Questions Regarding Insurance Requirements Contact Risk Management at (916) 774-5202

Supplier	
Signature:	
Print Name:	Brayton Statham
Title:	Vice President

Supplier	
Signature:	
Print Name:	
Title:	

City of Roseville, A Municipal Corporation	
Signature:	
Print Name:	Dominick Casey
Title:	City Manager

RESOLUTION NO. 21-251

APPROVING A CONTRACT PURCHASE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND LINMOORE FENCING & IRON WORKS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a contract purchase agreement (3001124) for on-call fence construction services, between the City of Roseville and Linmoore Fencing & Iron Works, Inc., has been reviewed by the Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said agreement is approved and the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute four (4) additional one (1) year renewals without further City Council approval, provided that the applicable budget is approved by the City Council each year, or until City staff determines that continuing with the same vendor is not in the City's best interest.

PASSED AND ADOPTED by the Council of the City of Roseville this ___ day of _____, 2021, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

CITY OF ROSEVILLE CALIFORNIA

Contract Purchase Agreement 3001124

Supplier Details:

Company	Linmoore Fencing & Iron Works Inc
Contact	Jay Linstroth
Address	7512 Watson Way
	Citrus Heights, CA 95610

Submit your response to:

Company	City of Roseville
Contact	Sue Jessup
Address	Purchasing Division
	2075 Hilltop Circle
	Roseville, CA 95747
Phone	(916) 746-1702
Fax	(916) 774-5736
E-mail	SJessup@roseville.ca.us

This Contract Purchase Agreement is sent for your review and acceptance. Notify the Buyer via email of any needed changes to the company name, address, and contact information. The Buyer will update the agreement prior to you signing the document.

Return signed copies of the agreement to the Buyer noted on the agreement. Alterations or modifications to the agreement are not allowed. Upon receipt of all necessary documents, the City will sign the agreement and return a fully executed copy to you. Receipt of the signed copy will be your notice to proceed with the work in accordance with the terms and conditions of the agreement. Work must not begin until the contract has been fully executed.

The following guidelines must be followed for the signature block on the agreement:

Sole proprietorship - **By owner**

Partnership - **Any general partner**

Corporation - **Two options:**
(1) A signature from the President and the corporate seal; **OR**
(2) One signature from the Chairman of the Board, President, or any Vice President **AND** one signature from the Secretary, any Assistant Secretary, Chief Financial Officer, or any Treasurer or Assistant Treasurer of the corporation

*General Manager, Office Manager and/or Sales Manager are **not** corporate officer titles. The agreement will be rejected if not signed in accordance with these guidelines.

Insurance requirements:
The City's insurance requirements are referenced on Attachment A of the agreement. By signing the agreement, you are confirming that your company has the minimum insurance limits required.

CITY OF ROSEVILLE CALIFORNIA

Contract Purchase Agreement 3001124

Agreement	3001124
Agreement Date	17-MAR-2021
Revision	0
Agreement Amount	275,000.00 USD

Invoice To	**City of Roseville** **Accounts Payable** **311 Vernon St** **ROSEVILLE CA 95678**	Supplier	**Linmoore Fencing & Iron Works Inc** 7512 Watson Way Citrus Heights, CA 95610
Phone:	(916) 774-5488	**Phone:**	(916) 725-4321
Fax:	(916) 784-3796	**Fax:**	()
Email:	accountspayable@roseville.ca.us	**Email:**	linmoorefencing@comcast.net

Description of Labor, equipment and/or materials

THE CONTRACTOR SHALL PROVIDE SERVICES CALLED FOR UNDER CITY OF ROSEVILLE REQUEST FOR PROPOSAL #13-091 AND CONTRACTOR'S PROPOSAL THERETO TITLED "LINMOORE FENCING AND IRON WORKS, INC. ON-CALL FENCE CONSTRUCTION SERVICES" (HEREINAFTER "PROPOSAL"). THE TERMS AND SCOPE OF WORK OF CITY OF ROSEVILLE REQUEST FOR PROPOSAL #13-091 AND CONTRACTOR'S PROPOSAL ARE HEREIN MADE PART OF THIS CONTRACT PURCHASE AGREEMENT AND FULLY INCORPORATED BY REFERENCE.

ALL WORK MUST BE QUOTED AND APPROVED BEFORE WORK CAN BEGIN.

START DATE: EXECUTED AGREEMENT
END DATE: 6/30/2022

For questions contact Shelby Craig in the Parks, Recreation & Libraries Department at (916) 746-1746 or by email at SCraig@roseville.ca.us

*The total agreement amount is an approximation only. The City does not guarantee whatsoever the actual value of this agreement.

Customer #	Supplier #	Payment Terms	Freight Terms	FOB	Shipping Method
	11247	**Net 30**	**Freight on Board at the destination**	**Destination**	**Best Method**

Start Date	End Date	Confirm To
		Sue Jessup Phone **1-916-746-1702**

Attention: Total Cost not to exceed the agreement amount without prior approval of the Purchasing office.

Contract Terms and Conditions

1. To the fullest extent allowed by law, Contractor shall defend, indemnify, and save and hold harmless the City, its officers, agents, employees and volunteers from any claims, suits or actions of every name, kind and description brought forth, or on account of, injuries to or death of any person (including but not limited to workers and the public), or damage to property, resulting from or arising out of Contractor's willful misconduct or negligent act or omission while engaged in the performance of obligations or exercise of rights created by this Agreement, except those matters arising from City's sole or active negligence or willful misconduct. The parties intend that this provision shall be broadly construed. Contractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Agreement for the full period of time allowed by law. The defense and indemnity obligations of this Agreement are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Agreement.

2. Contractor is an independent contractor, and shall not be considered an officer, agent or employee of the City.

3. Without the written consent of the City, this Agreement is not assignable by Contractor either in whole or in part.

4. Time is of the essence of this Agreement.

5. At any time during the term of this Agreement, the City has the right to terminate this Agreement, provided Contractor is given thirty (30) days written notice. City's termination shall be without further liability to City; however, Contractor shall be entitled to all costs reasonably incurred prior to the date of termination. Contractor acknowledges that City may terminate this Agreement should funds not be appropriated by its governing body to continue services under this Agreement.

6. This Agreement may only be amended or modified in writing. It is integrated and contains the complete understanding of the parties.

7. All equipment, supplies and services sold to the City of Roseville shall conform to the general safety orders of the State of California.

8. Unless notified to the contrary, in writing, the City assumes that the Contractor has accepted the work in accordance with the plans and specifications (if any) and agrees to do the work in compliance with this Agreement.

9. All prevailing wages and fair employment practices must be adhered to. For prevailing wage contracts over $25,000, copies of certified payroll must be submitted with invoices. Prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm.

10. Contractor agrees to the below insurance requirements:

    a. Unless otherwise specified, the Contractor shall maintain the policies of insurance outlined in Attachment A, incorporated herein by this reference, in full force and effect during the term of this Agreement. The City of Roseville retains sole discretion in determining the types and proper levels of insurance coverage.

b. Form. Contractor shall submit a certificate evidencing such coverage for the period covered by this Agreement in a form satisfactory to Risk Management and the City Attorney, prior to undertaking any work hereunder. Any insurance written on a claims made basis is subject to the approval of Risk Management and the City Attorney.

c. Additional Insureds. Contractor shall also provide a separate endorsement or section of the policy showing City, its officers, agents, employees, and volunteers as additional insureds for each type of coverage (except Workers' Compensation) and for ongoing and completed operations. Such insurance shall specifically cover the contractual liability of Contractor. The additional insured coverage under the Contractor's policy shall be primary and noncontributory, as evidenced by a separate endorsement or section of the policy, and shall not seek contribution from City's insurance or self-insurance. In addition, the additional insured coverage shall be at least as broad as the Insurance Services Office (ISO) CG 20 01 Endorsement. Any available insurance proceeds in excess of the specified minimum insurance coverage requirements and limits shall be available to the additional insureds. Furthermore, the requirements for coverage and limits shall be:

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

d. Cancellation/Modification. Contractor shall provide ten (10) days written notice to City prior to cancellation or modification of any insurance required by this Agreement.

e. Umbrella/Excess Insurance. The limits of insurance required in this Agreement may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of City (if agreed to in a written contract) before City's own insurance shall be called upon to protect it as a named insured.

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

g. Self-Insured Retentions. All self-insured retentions (SIR) must be disclosed to Risk Management for approval and shall not reduce the limits of liability. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.

h. Waiver of Subrogation. Contractor hereby agrees to waive subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss under a Workers Compensation, Commercial General Liability or Automobile Liability policy. All Workers Compensation, Commercial General

Liability and Automobile Liability policies shall be endorsed with a waiver of subrogation in favor of City, its officers, agents, employees and volunteers for all work performed by Contractor, its employees, agents and subcontractors.

i. Liability/Remedies. Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve Contractor of liability in excess of such coverage, nor shall it preclude City from taking such other actions as are available to it under any other provisions of this Agreement or law.

11. Contractor shall comply with all federal, state and local laws and ordinances, including but not limited to the City's storm water regulations, as may be applicable to the performance of services under this Agreement. Failure to comply with local ordinances may result in monetary fines and cancellation of this Agreement. Refer to www.roseville.ca.us/stormwater for links to more information on the City's storm water regulations.

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

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    CONTRACTOR and CITY agree that: (a) CONTRACTOR is free from the control and direction of CITY in connection with the performance of the work; (b) CONTRACTOR is providing services directly to CITY; (c) CONTRACTOR has and will maintain at all relevant times a business license; (d) CONTRACTOR maintains a business location that is separate from CITY; (e) CONTRACTOR is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONTRACTOR actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONTRACTOR advertises and holds itself out to the public as available to provide the same or similar services; (h) CONTRACTOR provides its own tools, vehicles, and equipment to perform the services; (i) CONTRACTOR has negotiated its own rates; (j) CONTRACTOR set its own hours and location of work in accomplishing CITY's on-call needs; and (k) CONTRACTOR has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement.
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22. This Agreement may be amended via change order, but only if such change order is made in writing, approved by the City, and signed by both parties.

The supplier named hereon by the acceptance of this order agrees to the provisions of this document titled "Contract Purchase Agreement" and all accompanying terms, conditions, and attachments.

Roseville Business License No. 00819383

Contractor License No. 711703

DIR Registration No. 1000031163

Check mark the applicable company type below:

✓ **Corporation**

_____ **Limited Liability Company**

_____ **Partnership**

_____ **Sole Proprietor**

City Reserves the right to withold any payments to contractor in the event of noncompliance with insurance requirements or if required by law.
Construction T&C
REV 3/2/21 JS

ATTACHMENT A
HUMAN RESOURCES/RISK MANAGEMENT DIVISION
INSURANCE REQUIREMENTS
AGREEMENT OVER FORMAL BID LIMIT OR INVOLVING HIGH RISK ACTIVITIES

General - Required Coverage/Documentation

- General Liability: $1 Million per occurrence /$2 Million aggregate
- Automobile Liability: $1 Million combined single limit
- Workers' Compensation: Statutory *Must provide a Waiver of subrogation
- Additional Insured Endorsement (AIE) - General Liability policy: CG 20 38 04 13 or an equivalent, blanket endorsement or section of the policy. Endorsement shall cover the City of Roseville, its officers, agents, employees and volunteers as additional insured.
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- List certificate holder as: The City of Roseville - Insurance Compliance, PO Box 100085-R1, Duluth, GA 30096

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General Liability:
$2 Million/occurrence
$4 Million aggregate

Design Professional:____
General Liability:
$2 Million/occurrence
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Professional Liability:
$2 Million/occurrence

Professional Consultant:____
Professional Liability:
$1 Million/occurrence

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Professional Liability:
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General Liability:
$3 Million/occurrence
$6 Million aggregate
Pollution – $2 Million/Occurrence
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Insurance Submission Process

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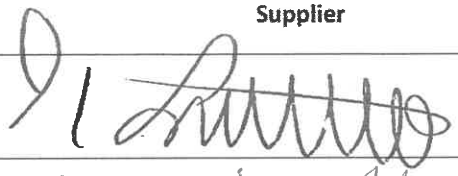
- The Vendor can forward the request to their Insurance Agent(s) if necessary.
- Vendor/Insurance Agent submits insurance to EBIX by email to roseville@ebix.com or by fax to (770) 325-5727. After faxing or emailing the certificate, please DO NOT send the certificate by mail to EBIX. Please do not mail, email or fax any certificates to the City of Roseville.
- Once submitted, EBIX reviews the insurance documentation. If there are deficiencies, EBIX will send a follow up letter or email requesting additional information.

Questions Regarding Insurance Submission: Contact EBIX at (951) 652-4239
Questions Regarding Insurance Requirements Contact Risk Management at (916) 774-5202

Supplier	
Signature:	
Print Name:	Jay Linstroth
Title:	President

Supplier	
Signature:	
Print Name:	
Title:	

City of Roseville, A Municipal Corporation	
Signature:	
Print Name:	Dominick Casey
Title:	City Manager

Supplier	
Signature:	
Print Name:	Joey Linstroth
Title:	President

Supplier	
Signature:	
Print Name:	
Title:	

City of Roseville, A Municipal Corporation	
Signature:	
Print Name:	Dominick Casey
Title:	City Manager

Bond No. 107413507
Premium $ Included in PF Bond

PUBLIC WORKS
LABOR AND MATERIALS PAYMENT BOND

(Project: Contract Purchase Agreement 3001124)

WHEREAS, the City of Roseville ("CITY"), has awarded a bid and contract to Linmoore Fencing & Iron Works, Inc. as contractor ("PRINCIPAL"), for the public work described as Contract Purchase Order 3001124 (the "WORK"). The contract ("AGREEMENT"), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

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

NOW, THEREFORE, we the undersigned PRINCIPAL and Travelers Casualty and Surety Company of America, a Corporation, admitted and duly authorized to transact business under the laws of the State of California, as SURETY ("SURETY"), are held and firmly bound unto the CITY or its successors and assigns in the sum of Two Hundred Seventy Five Thousand 00/100 dollars ($ 275,000) (which amount is not less than 100% of the AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns jointly and severally, firmly by these presents.

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

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

this paragraph to the contrary notwithstanding, the obligation of the SURETY shall continue so long as any obligation of the PRINCIPAL remains.

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

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

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

2. Reimburse CITY for all costs CITY incurs in completing the AGREEMENT, and in correcting, repairing or replacing defects in materials or workmanship and/or materials and workmanship which do not conform to the specifications in the AGREEMENT.

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

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

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

[SIGNATURES NEXT PAGE]

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

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

IN WITNESS WHEREOF, this instrument has been duly executed by the PRINCIPAL and SURETY above-named, on the 1st day of April, 2021.

PRINCIPAL: Linmoore Fencing & Iron Works, Inc.

BY: _____

PRINT NAME: Jay Linstroth

PRINT TITLE: President

AND

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

SURETY: Travelers Casualty and Surety Company of America

BY: _____

PRINT NAME: Thomas W. Belton

PRINT TITLE: Attorney-In-Fact

MAILING ADDRESS:

11070 White Rock Rd., #130

Rancho Cordova, CA 95670

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

APPROVED AS TO FORM:

BY: _____
City Attorney

TOBY LLOYD STOCKLER
COMM. # 2344020
NOTARY PUBLIC - CALIFORNIA
PLACER COUNTY
COMM. EXPIRES JAN. 27, 2025

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
SS
COUNTY OF PLACER)

On April 9, 2021, before me, TOBY LLOYD STOCKLER, a Notary Public, personally appeared THOMAS W. BELTON, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

MGC 1 TOBY LLOYD STOCKLER COMM. # 2344020 NOTARY PUBLIC - CALIFORNIA PLACER COUNTY COMM. EXPIRES JAN. 27, 2025 MGC 1

(*Officer's Seal*)

Tobias Stockler

(*Signature of Officer*)

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Thomas W Belton** of **ROSEVILLE**, **California**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January, 2019.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **17th** day of **January, 2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this day of , .

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

Bond No. 107413507
Premium $ 6,188

PUBLIC WORKS
FAITHFUL PERFORMANCE BOND

(Project: Contract Purchase Agreement 3001124)

WHEREAS, the City of Roseville ("CITY") has awarded a bid and contract to Linmoore Fencing & Iron Works, Inc. as contractor ("PRINCIPAL") for the public work described as Contract Purchase Agreement 3001124 (the "WORK"). The contract ("AGREEMENT"), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

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

NOW, THEREFORE, we the undersigned PRINCIPAL and Travelers Casualty and Surety Company of America, a Corporation, admitted and duly authorized to transact business under the laws of the State of California, as SURETY ("SURETY"), are held and firmly bound unto the CITY or its successors and assigns in the sum of Two Hundred Seventy Five Thousand 00/10 dollars ($ 275,000) (which amount is not less than 100% of the AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns jointly and severally, firmly by these presents.

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

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

this paragraph to the contrary notwithstanding, the obligation of the SURETY shall continue so long as any obligation of the PRINCIPAL remains.

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

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

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

2. Reimburse CITY for all costs CITY incurs in completing the AGREEMENT, and in correcting, repairing or replacing defects in materials or workmanship and/or materials and workmanship which do not conform to the specifications in the AGREEMENT.

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

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

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

[SIGNATURES NEXT PAGE]

IN WITNESS WHEREOF, this instrument has been duly executed by the PRINCIPAL and SURETY above-named, on the 1st day of April, 2021.

PRINCIPAL: Linmoore Fencing & Iron Works, Inc.

BY: _____

PRINT NAME: Jay Linstroth

PRINT TITLE: President

AND

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

APPROVED AS TO FORM:

BY: _____
City Attorney

SURETY: Travelers Casualty and Surety Company of America

BY: _____

PRINT NAME: Thomas W. Belton

PRINT TITLE: Attorney-In-Fact

MAILING ADDRESS:

11070 White Rock Rd., #130

Rancho Cordova, CA 95670

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

Tobias Stockler

TOBY LLOYD STOCKLER
COMM. # 2344020
NOTARY PUBLIC - CALIFORNIA
PLACER COUNTY
COMM. EXPIRES JAN. 27, 2025

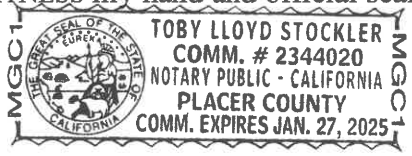
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
SS
COUNTY OF PLACER)

On April 9, 2021, before me, TOBY LLOYD STOCKLER, a Notary Public, personally appeared THOMAS W. BELTON, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(*Officer's Seal*)

Tobias Stockler
(*Signature of Officer*)

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Thomas W Belton** of **ROSEVILLE**, **California**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January**, **2019.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **17th** day of **January**, **2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this day of , .

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

Bond No. 107413507
Premium $ Included in PF Bond

PUBLIC WORKS
LABOR AND MATERIALS PAYMENT BOND

(Project: Contract Purchase Agreement 3001124)

WHEREAS, the City of Roseville ("CITY"), has awarded a bid and contract to Linmoore Fencing & Iron Works, Inc. as contractor ("PRINCIPAL"), for the public work described as Contract Purchase Order 3001124 (the "WORK"). The contract ("AGREEMENT"), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

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

NOW, THEREFORE, we the undersigned PRINCIPAL and Travelers Casualty and Surety Company of America, a Corporation, admitted and duly authorized to transact business under the laws of the State of California, as SURETY ("SURETY"), are held and firmly bound unto the CITY or its successors and assigns in the sum of Two Hundred Seventy Five Thousand 00/100 dollars ($275,000) (which amount is not less than 100% of the AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns jointly and severally, firmly by these presents.

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

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

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

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

IN WITNESS WHEREOF, this instrument has been duly executed by the PRINCIPAL and SURETY above-named, on the 1st day of April, 2021.

PRINCIPAL: Linmoore Fencing & Iron Works, Inc.

BY: _____

PRINT NAME: Jay Linstroth

PRINT TITLE: President

AND

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

SURETY: Travelers Casualty and Surety Company of America

BY: _____

PRINT NAME: Thomas W. Belton

PRINT TITLE: Attorney-In-Fact

MAILING ADDRESS:

11070 White Rock Rd., #130

Rancho Cordova, CA 95670

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

APPROVED AS TO FORM:

BY: _____
City Attorney

TOBY LLOYD STOCKLER
COMM. # 2344020
NOTARY PUBLIC - CALIFORNIA
PLACER COUNTY
COMM. EXPIRES JAN. 27, 2025

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
SS
COUNTY OF PLACER)

On April 9, 2021, before me, TOBY LLOYD STOCKLER, a Notary Public, personally appeared THOMAS W. BELTON, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(*Officer's Seal*)

Tobias Stockler

(*Signature of Officer*)

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Thomas W Belton** of **ROSEVILLE** **California** , their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January**, **2019.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **17th** day of **January**, **2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this day of , .

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

Bond No. 107413507
Premium $ 6,188

PUBLIC WORKS
FAITHFUL PERFORMANCE BOND

(Project: Contract Purchase Agreement 3001124)

WHEREAS, the City of Roseville ("CITY") has awarded a bid and contract to Linmoore Fencing & Iron Works, Inc. as contractor ("PRINCIPAL") for the public work described as Contract Purchase Agreement 3001124 (the "WORK"). The contract ("AGREEMENT"), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

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

NOW, THEREFORE, we the undersigned PRINCIPAL and Travelers Casualty and Surety Company of America, a Corporation, admitted and duly authorized to transact business under the laws of the State of California, as SURETY ("SURETY"), are held and firmly bound unto the CITY or its successors and assigns in the sum of Two Hundred Seventy Five Thousand 00/10 dollars ($ 275,000) (which amount is not less than 100% of the AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns jointly and severally, firmly by these presents.

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

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

this paragraph to the contrary notwithstanding, the obligation of the SURETY shall continue so long as any obligation of the PRINCIPAL remains.

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

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

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

2. Reimburse CITY for all costs CITY incurs in completing the AGREEMENT, and in correcting, repairing or replacing defects in materials or workmanship and/or materials and workmanship which do not conform to the specifications in the AGREEMENT.

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

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

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

[SIGNATURES NEXT PAGE]

IN WITNESS WHEREOF, this instrument has been duly executed by the PRINCIPAL and SURETY above-named, on the 1st day of April, 20 21.

PRINCIPAL: Linmoore Fencing & Iron Works, Inc.

BY: _____

PRINT NAME: Jay Linstroth

PRINT TITLE: President

AND

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

SURETY: Travelers Casualty and Surety Company of America

BY: Thomas W Belton

PRINT NAME: Thomas W. Belton

PRINT TITLE: Attorney-In-Fact

MAILING ADDRESS:

11070 White Rock Rd., #130

Rancho Cordova, CA 95670

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

APPROVED AS TO FORM:

BY: _____
City Attorney

Tobias Stockler

TOBY LLOYD STOCKLER
COMM. # 2344020
NOTARY PUBLIC - CALIFORNIA
PLACER COUNTY
COMM. EXPIRES JAN. 27, 2025

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
SS
COUNTY OF PLACER)

On April 9, 2021, before me, TOBY LLOYD STOCKLER, a Notary Public, personally appeared THOMAS W. BELTON, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

MGC1 TOBY LLOYD STOCKLER COMM. # 2344020 NOTARY PUBLIC · CALIFORNIA PLACER COUNTY COMM. EXPIRES JAN. 27, 2025 MGC1

(*Officer's Seal*)

(*Signature of Officer*)

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Thomas W Belton** of **ROSEVILLE** **California**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January**, **2019.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **17th** day of **January**, **2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, **2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this day of , .

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

Bond No. 107413507
Premium $ Included in PF Bond

PUBLIC WORKS
LABOR AND MATERIALS PAYMENT BOND

(Project: Contract Purchase Agreement 3001124)

WHEREAS, the City of Roseville ("CITY"), has awarded a bid and contract to Linmoore Fencing & Iron Works, Inc. as contractor ("PRINCIPAL"), for the public work described as Contract Purchase Order 3001124 (the "WORK"). The contract ("AGREEMENT"), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

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

NOW, THEREFORE, we the undersigned PRINCIPAL and Travelers Casualty and Surety Company of America, a Corporation, admitted and duly authorized to transact business under the laws of the State of California, as SURETY ("SURETY"), are held and firmly bound unto the CITY or its successors and assigns in the sum of Two Hundred Seventy Five Thousand 00/100 dollars ($ 275,000) (which amount is not less than 100% of the AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns jointly and severally, firmly by these presents.

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

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

this paragraph to the contrary notwithstanding, the obligation of the SURETY shall continue so long as any obligation of the PRINCIPAL remains.

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

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

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

2. Reimburse CITY for all costs CITY incurs in completing the AGREEMENT, and in correcting, repairing or replacing defects in materials or workmanship and/or materials and workmanship which do not conform to the specifications in the AGREEMENT.

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

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

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

[SIGNATURES NEXT PAGE]

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

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

IN WITNESS WHEREOF, this instrument has been duly executed by the PRINCIPAL and SURETY above-named, on the 1st day of April, 2021.

PRINCIPAL: Linmoore Fencing & Iron Works, Inc.

BY: _____

PRINT NAME: Jay Linstroth

PRINT TITLE: President

AND

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

SURETY: Travelers Casualty and Surety Company of America

BY: _____

PRINT NAME: Thomas W. Belton

PRINT TITLE: Attorney-In-Fact

MAILING ADDRESS:

11070 White Rock Rd., #130

Rancho Cordova, CA 95670

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

APPROVED AS TO FORM:

BY: _____
City Attorney

TOBY LLOYD STOCKLER
COMM. # 2344020
NOTARY PUBLIC - CALIFORNIA
PLACER COUNTY
COMM. EXPIRES JAN. 27, 2025

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
SS
COUNTY OF PLACER)

On April 9, 2021, before me, TOBY LLOYD STOCKLER, a Notary Public, personally appeared THOMAS W. BELTON, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

TOBY LLOYD STOCKLER
COMM. # 2344020
NOTARY PUBLIC - CALIFORNIA
PLACER COUNTY
COMM. EXPIRES JAN. 27, 2025

(*Officer's Seal*)

(*Signature of Officer*)

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Thomas W Belton** of **ROSEVILLE**, **California**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January, 2019.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **17th** day of **January, 2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 1st day of April, 2021.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

CALIFORNIA DEPARTMENT OF INSURANCE

Company Profile
- Company Search
- Company Search Results
- Company Information
- Old Company Names
- Agent for Service
- Reference Information
- NAIC Group List
- Lines of Business
- Workers' Compensation Complaint and Request for Action/Appeals Contact Information

Financial Statements PDF's
- Annual Statements
- Quarterly Statements

Company Complaint
- Company Performance & Comparison Data
- Company Enforcement Action
- Composite Complaints Studies

Additional Info
- Find A Company Representative In Your Area
- View Financial Disclaimer

COMPANY PROFILE

Company Information

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA
ONE TOWER SQUARE
HARTFORD, CT 06183

Old Company Names	Effective Date
AETNA CASUALTY & SURETY COMPANY OF AMERICA	07/01/1997

Agent For Service

Melissa DeKoven
2710 Gateway Oaks Drive, Suite 150N
Sacramento CA 95833-3505

Reference Information

NAIC #:	31194
California Company ID #:	2444-8
Date Authorized in California:	07/31/1981
License Status:	UNLIMITED-NORMAL
Company Type:	Property & Casualty
State of Domicile:	CONNECTICUT

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NAIC Group List

NAIC Group #: 3548 Travelers Grp

Lines Of Business

The company is authorized to transact business within these lines of insurance.
For an explanation of any of these terms, please refer to the glossary.

AIRCRAFT
AUTOMOBILE
BOILER AND MACHINERY
BURGLARY
COMMON CARRIER LIABILITY
CREDIT
DISABILITY
FIRE
LIABILITY
MARINE
MISCELLANEOUS
PLATE GLASS
SPRINKLER

SURETY

TEAM AND VEHICLE

WORKERS' COMPENSATION

back to top

© 2008 California Department of Insurance

Bond No. 107413507
Premium $ 6,188

PUBLIC WORKS
FAITHFUL PERFORMANCE BOND

(Project: Contract Purchase Agreement 3001124)

WHEREAS, the City of Roseville ("CITY") has awarded a bid and contract to Linmoore Fencing & Iron Works, Inc. as contractor ("PRINCIPAL") for the public work described as Contract Purchase Agreement 3001124 (the "WORK"). The contract ("AGREEMENT"), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

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

NOW, THEREFORE, we the undersigned PRINCIPAL and Travelers Casualty and Surety Company of America, a Corporation, admitted and duly authorized to transact business under the laws of the State of California, as SURETY ("SURETY"), are held and firmly bound unto the CITY or its successors and assigns in the sum of Two Hundred Seventy Five Thousand 00/10 dollars ($ 275,000) (which amount is not less than 100% of the AGREEMENT price) to be paid to the CITY or its successors and assigns; and for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns jointly and severally, firmly by these presents.

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

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

this paragraph to the contrary notwithstanding, the obligation of the SURETY shall continue so long as any obligation of the PRINCIPAL remains.

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

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

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

2. Reimburse CITY for all costs CITY incurs in completing the AGREEMENT, and in correcting, repairing or replacing defects in materials or workmanship and/or materials and workmanship which do not conform to the specifications in the AGREEMENT.

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

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

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

[SIGNATURES NEXT PAGE]

IN WITNESS WHEREOF, this instrument has been duly executed by the PRINCIPAL and SURETY above-named, on the 1st day of April, 20 21.

PRINCIPAL: Linmoore Fencing & Iron Works, Inc.

BY: _____

PRINT NAME: Jay Linstroth

PRINT TITLE: President

AND

BY: _____

PRINT NAME: _____

PRINT TITLE: _____

SURETY: Travelers Casualty and Surety Company of America

BY: _____

PRINT NAME: Thomas W. Belton

PRINT TITLE: Attorney-In-Fact

MAILING ADDRESS:

11070 White Rock Rd., #130

Rancho Cordova, CA 95670

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

APPROVED AS TO FORM:

BY: _____
City Attorney

TOBY LLOYD STOCKLER
COMM. # 2344020
NOTARY PUBLIC - CALIFORNIA
PLACER COUNTY
COMM. EXPIRES JAN. 27, 2025

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
SS
COUNTY OF PLACER)

On April 9, 2021, before me, TOBY LLOYD STOCKLER, a Notary Public, personally appeared THOMAS W. BELTON, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

MGC1 TOBY LLOYD STOCKLER COMM. # 2344020 NOTARY PUBLIC - CALIFORNIA PLACER COUNTY COMM. EXPIRES JAN. 27, 2025 MGC1

(*Officer's Seal*)

Tobias Stockler

(*Signature of Officer*)

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Thomas W Belton** of **ROSEVILLE**, **California**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **17th** day of **January, 2019.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **17th** day of **January, 2019**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2021**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 1st day of April, 2021.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which this Power of Attorney is attached.

CALIFORNIA DEPARTMENT OF INSURANCE

Company Profile
- Company Search
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- Agent for Service
- Reference Information
- NAIC Group List
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Financial Statements PDF's
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Additional Info
- Find A Company Representative In Your Area
- View Financial Disclaimer

COMPANY PROFILE

Company Information

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA

ONE TOWER SQUARE
HARTFORD, CT 06183

Old Company Names | **Effective Date**

AETNA CASUALTY & SURETY COMPANY OF AMERICA | 07/01/1997

Agent For Service

Melissa DeKoven
2710 Gateway Oaks Drive, Suite 150N
Sacramento CA 95833-3505

Reference Information

NAIC #:	31194
California Company ID #:	2444-8
Date Authorized in California:	07/31/1981
License Status:	UNLIMITED-NORMAL
Company Type:	Property & Casualty
State of Domicile:	CONNECTICUT

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NAIC Group List

NAIC Group #: 3548 Travelers Grp

Lines Of Business

The company is authorized to transact business within these lines of insurance.
For an explanation of any of these terms, please refer to the glossary.

AIRCRAFT
AUTOMOBILE
BOILER AND MACHINERY
BURGLARY
COMMON CARRIER LIABILITY
CREDIT
DISABILITY
FIRE
LIABILITY
MARINE
MISCELLANEOUS
PLATE GLASS
SPRINKLER

SURETY

TEAM AND VEHICLE

WORKERS' COMPENSATION

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COUNCIL COMMUNICATION

CC #: 1507
File #: 0900-03

Title:	Electric Landscape Improvements - Fiddyment Substation Project - Approval of Plans and Specifications and Authorization to Call for Bids
Contact:	Chris Porter 916-774-5615 cporter@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.3.

RECOMMENDATION TO COUNCIL

Staff is recommending that the City Council approve the Electric Landscape Improvements - Fiddyment Substation Project plans and specifications and authorize staff to advertise and call for bids.

BACKGROUND

In 1997, Roseville Electric built the Fiddyment 230/60kV Substation. This substation is one of two substations used by Roseville Electric to deliver power from outside of the City to Roseville customers. When the substation was constructed, a minimal amount of landscaping was installed. Over the years the landscaping has deteriorated and trash tends to collect in the seasonal vernal pool.

As part of this project, the City has worked with the California State Water Resources Control Board and the United States Army Corps of Engineers to remove and mitigate the vernal pool so it can be landscaped along with the rest of the frontage along Fiddyment Road. Additionally, Roseville Electric has performed a security evaluation on the Fiddyment Substation, which has identified the need for additional lighting that has been included in this project.

FISCAL IMPACT

The total project cost is estimated at $800,000. Funding is included in the Electric Landscape Improvements capital improvement project budget for FY2020-21, with additional funding included in the proposed FY2021-22 budget pending City Council approval.

ENVIRONMENTAL REVIEW

The proposed work of the Electric Landscape Improvements - Fiddyment Substation project is an action that is subject to CEQA. Project level CEQA compliance for the Electric Landscape

Improvements - Fiddyment Substation project was accomplished with preparation of the City of Roseville Electric Department 230-60-kV Fiddyment Substation Project Initial Study/Mitigated Negative Declaration (Adopted January 17, 1996) (SCH No. 1995012023). Because the Electric Landscape Improvements - Fiddyment Substation project is consistent with the project evaluated in the Roseville Electric Department 230-60-kV Fiddyment Substation Project Initial Study/Mitigated Negative Declaration, all applicable mitigation measures from the Roseville Electric Department 230-60-kV Fiddyment Substation Project Initial Study/Mitigated Negative Declaration will be implemented, and no new effects would be expected to occur. As such, no additional CEQA action is required at this time.

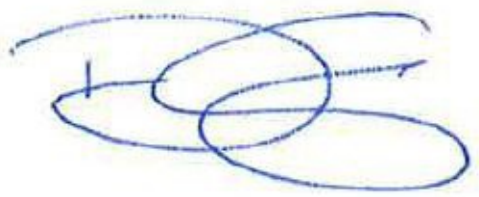
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal E - Deliver exceptional city services

Respectfully Submitted,

Chris Porter, Power Engineering Manager

Michelle Bertolino, Electric Utility Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Project Manual 1 of 2

Project Manual 2 of 2

Buildings & Grounds Project Manual

Name of project:
Electric Landscape Improvements-
Fiddyment Substation

Department:
Electric

CITY OF ROSEVILLE
CALIFORNIA

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CITY OF ROSEVILLE

DEPARTMENT OF Electric Utility

Name of Project: Electric Landscape Improvements- Fiddyment Substation

NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN THAT sealed Proposals will be received at the Office of the City Clerk, 311 Vernon Street, Roseville, California, until July 13th, 2021 at 3:00 p.m. Late Proposals will be rejected. No exceptions.

The Proposals will be publicly opened and read by the City Clerk or designee of the City of Roseville at 3:05 p.m. on July 13th, 20 21 at the Office of the City Clerk located at 311 Vernon Street, Roseville California for the following project: Electric Landscape Improvements- Fiddyment Substation.

A pre-bid meeting will be held at (not applicable).

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

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

follows:

[NAME OF PROJECT]

(Name of Bidder)

(Address of Bidder)

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

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

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

nor may any bid be withdrawn after the time fixed in the public notice for deadline for submission of bids. Immediately following the deadline for submission of bids all bids shall become the property of the City of Roseville and the City is under no obligation to return bids.

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

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

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

The City has determined that the Contractor shall possess a valid Class A, C-27 General Engineering or Landscaping Contractor's license at the time that the bid is submitted, as well as any other license classification as may be required by the laws of the California for the performance of the work specified in the Contract Documents. Said license shall be maintained during the Contract period. Failure to possess the specified license shall render the bid nonresponsive and will act as a bar to the award of the Contract to any Bidder not possessing such a license at the time of bid submittal. The Contractor shall provide certification of the license, its number and the expiration date on the proposal form.

The work is to be done in Placer County. Pursuant to California Labor Code Section 1773, the City has ascertained the General Prevailing Rate of Wages in the County in which the

work is to be done to be as determined by the Director of Industrial Relations of the State of California. The Contractor is hereby made aware that information regarding prevailing wage rates may be obtained from the State Department of Industrial Relations and/or the following website address: http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm. The Contractor is required to post a copy of the applicable wage rates at the job site. Attention is directed to Section 5 "Legal Relations and Responsibility" of the General Conditions.

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

All questions prior to the deadline for bid submissions shall be directed to the attention of Mitch Larkin via email at mlarkin@roseville.ca.us. The deadline for submissions of questions and clarifications regarding the Contract Documents is 7 calendar days before the deadline for

bid submissions. Only Addenda issued by the City are binding.

_____
City Clerk, City of Roseville

Dated: _____

Published: _____

INSTRUCTIONS TO BIDDERS

SECTION 1. GENERAL

1-1.01 **GENERAL.** These Instructions to Bidders form a part of the Contract Documents. Capitalized terms are defined in the General Conditions Section 1.

1-1.02 **EXAMINATION OF PLANS, CONTRACT DOCUMENTS AND SITE OF THE WORK.** The Bidder shall examine carefully the site of the Work and all the Contract Documents, including these Instructions to Bidders, and shall inform itself of the conditions relating to the execution of the Work. Failure to do so will not relieve the successful Bidder of its obligation to enter into an Agreement and complete the Work in strict accordance with the Contract Documents. Conditions relating to the execution of the Work include the requirements of federal, state, and local laws, statutes and ordinances relative to the execution of Work, including, but not limited to, applicable regulations concerning prevailing wage rates, non-discrimination in the employment of labor, protection of the public, employee health and safety, and environmental protection.

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

1-1.03 **EXISTING INFORMATION.** Where the Department has made investigations of site conditions, including subsurface conditions in areas where Work is to be performed under the Contract, such investigations are made only for the purpose of study and design. City does not represent that such conditions as found in these investigations or inferences or conclusions drawn as a result of these investigations will represent actual site

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

No information derived from such inspection of records of investigations or compilation thereof made by the City, the Department or from the Engineer, or his or her assistants, will in any way relieve the Bidder or Contractor from properly examining the site and making such additional investigations as it may elect, or from properly fulfilling the terms of the Contract.

SECTION 2: BID REQUIREMENTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Unit prices and lump sum prices, as indicated, must be entered in the appropriate spaces provided in the Schedule of Bid Prices. If applicable, unit prices shall be multiplied by the quantities shown, and the total shall be inserted in the Amount column. In the event of any error or discrepancy between the unit price and the calculated amount, the unit prices shall govern. The City may correct any mathematical errors apparent on the face of the bid.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION 3: EVALUATION OF BIDS

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

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

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

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

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

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

SECTION 4: AWARD AND EXECUTION OF CONTRACT

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

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

4-1.03 **CONTRACT BONDS.** The successful Bidder shall furnish two (2)

bonds in the form contained in the section entitled Insurance Broker Information Packet and Bonds. One (1) bond shall secure the payment of the claims of laborers, mechanics or materialmen employed on the Work under the Contract, and the other bond shall guarantee the faithful performance of the Contract.

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

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

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

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

4-1.05 **EXECUTION OF CONTRACT.** The Contract shall be signed by the successful Bidder and returned, together with all the required Contract bonds and insurance certificates, within fifteen (15) Days after the Contract has been awarded, or as otherwise directed, in writing, by the City.

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

4-1.06 **FAILURE TO EXECUTE CONTRACT.** Failure of the lowest responsible Bidder, the second lowest responsible Bidder, or the third lowest responsible Bidder to execute the Contract and file acceptable bonds and insurance as provided within fifteen (15) Days after the Contract has been awarded, or as otherwise directed, in writing, by the City, shall be just cause for annulment of the award and forfeiture of the Bidder's security. The successful Bidder may file with the City Clerk a written notice, signed by the Bidder or Bidder's authorized representative, specifying that the Bidder will refuse to execute the Contract if presented to Bidder. The filing of such notice shall have the same force and effect as the failure of the Bidder to execute the Contract and furnish acceptable bonds within the time prescribed.

SECTION 5: BID PROTEST PROCEDURES

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

PROPOSAL TO THE DEPARTMENT OF _____

Project:_____

Name of Bidder _____ Business Phone _____

Business Address _____

Place of Business _____

Contractor's License No. _____

License Expiration Date_____

License Classification Type _____

DIR Registration No. _____

Type of business organization: _____

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

City of Roseville Business License No._____

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

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

The work to be done is described in the Bidding Documents entitled _____

_____, City of Roseville, California.

This offer shall be irrevocable for a period of sixty (60) Days after the date on which bids are opened.

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

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

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

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

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

with the Contract Documents.

Accompanying this Proposal is _____.

(Notice: Insert the words "Cash $_____," "Cashier's Check," "Certified Check," or "Bidder's Bond," as the case may be, in an amount equal to at least ten percent (10%) of the total of the Bid.)

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

_____

_____

_____

If SOLE OWNER, execute here:

I sign as sole owner of the business named above:

_____

If PARTNERSHIP, one or more partners sign here:

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

_____

_____

If CORPORATION, execute here:

Corporate Name: _____

Incorporated under the laws of the State of _____

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

By_____	By_____
*Signature of Authorized Official**	*Signature of Authorized Official**
_____	_____
Title	*Title*
_____	_____
Typewritten or Printed Name	*Typewritten or Printed Name*

If JOINT VENTURE, execute here:

Joint Venture name composed of: _____

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

_____	_____
*Signature of Authorized Official**	*Signature of Authorized Official**
_____	_____
Title	*Title*
_____	_____
Typewritten or Printed Name	*Typewritten or Printed Name*

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

[LIST OF SUBCONTRACTORS FOLLOWS ON NEXT PAGE.]

LIST OF SUBCONTRACTORS

Contractor's Name: _____

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

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

SECURITY FOR COMPENSATION CERTIFICATE

(Required by California Labor Code Section 1861)

TO: City Council
City of Roseville

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

_____

_____
(Signature of Bidder)

_____

_____
Business Address

_____
Telephone

BIDDER'S BOND

City Council of the City of Roseville

KNOW ALL MEN BY THESE PRESENTS:

That we _____

_____, as PRINCIPAL, and

_____

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

THE CONDITION OF THIS OBLIGATION IS SUCH,

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

_____

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

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

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

_____(Seal)

_____(Seal)

_____(Seal)
Principal

_____(Seal)

_____(Seal)

_____(Seal)
Surety

_____

_____
Business Address

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

Project _____

Contractor _____

SCHEDULE OF BID ITEMS

BID ITEM	ITEM DESCRIPTION	UNIT	TOTAL AMOUNT ($)
1	Demolition, planting, irrigation and lighting installation and all associated work at Fiddyment Substation	Lump Sum	

NONCOLLUSION DECLARATION TO BE EXECUTED BY
BIDDER AND SUBMITTED WITH BID

The undersigned declares:

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

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

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

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

_____

(Signature of Declarant)

DISQUALIFICATION QUESTIONNAIRE

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

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

Yes_____ No_____

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

_____

_____

_____

_____

_____

_____

NAME OF BIDDER: _____

SIGNATURE OF BIDDER: _____

TITLE OF BIDDER: _____

DATE: _____

ACKNOWLEDGEMENT OF INSURANCE AND BOND REQUIREMENTS

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

NAME OF BIDDER: _____

SIGNATURE OF BIDDER: _____

TITLE OF BIDDER: _____

DATE: _____

DISCLAIMER OF WARRANTIES AND ACCURACY OF DATA

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

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

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

Print Name	Signature
Name of Business/Company/Corporation	Date
Address	Phone

END OF PROPOSAL

A G R E E M E N T

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

W I T N E S E T H:

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

and directed the City Clerk to advertise for sealed proposals for doing said work and providing that bids be submitted on the _____ day of _____, 20_____; and

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

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

WHEREAS, all bids received pursuant to said notice were opened and examined and publicly declared at the time specified in said advertisement for bids and at a meeting of the City Council held on the _____ day of _____, 20_____, the Council found and

declared the bid of CONTRACTOR to be the lowest responsible bid and thereupon awarded a contract to CONTRACTOR to do the work referred to in the aforementioned specifications.

NOW, THEREFORE, the parties agree as follows:

1. THE WORK. CONTRACTOR agrees:

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

_____

in accordance with the Contract Documents (the Work).

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

2. PAYMENT. CITY shall pay CONTRACTOR _____

_____ dollars ($_____) for the Work to be done under this Agreement in accordance with the Contract Documents.

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

a. The advertisement for bids (including the notice to bidders, instructions to bidders and proposals);

b. The accepted bid;

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

d. Bonds and insurance required by the specifications; and

e. This contract.

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

4. LIQUIDATED DAMAGES. In the event CONTRACTOR does not complete the Work within the time specified, CONTRACTOR agrees that CITY will suffer damages. Inasmuch as the actual damages which would result from such breach by CONTRACTOR under this Agreement are uncertain, and would be impractical or extremely difficult to fix, CONTRACTOR agrees that it shall pay, or CITY shall deduct from CONTRACTOR's fee, the amount of $_____ per day as liquidated damages, in the event of such delay.

5. TIME OF COMPLETION. Time is of the essence of this Agreement. CONTRACTOR shall complete all Work under the Contract Documents within _____ Days of the date of this Contract. CONTRACTOR shall begin work by the date specified in the "Notice to Proceed" letter and shall diligently prosecute all of the Work under this Contract in all parts and requirements as defined in the Contract Documents.

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

CITY OF ROSEVILLE	CONTRACTOR
_____	_____
_____	_____
_____	_____
_____	_____

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

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

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

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

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

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

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

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

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

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

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

CITY OF ROSEVILLE, a municipal corporation

BY:_____
DOMINICK CASEY
City Manager

ATTEST:

BY:_____
SONIA OROZCO
City Clerk

_____, a
_____

BY: _____
its: _____

and

BY: _____
its: _____

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____

Print Name:_____

Title:_____

INSURANCE BROKER INFORMATION PACKET

Project:_____

NOTICE TO CONTRACTOR:

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

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

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Insurance Requirements	INS 2
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Public Works Payment Bond	INS 13

NOTICE TO INSURANCE BROKER

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

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

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

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

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

Bonds must be sent to the following staff person:

_____

_____

_____

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

a. By email to roseville@ebix.com and riskmanagement@roseville.ca.us

b. By fax to (770) 335-5727 and (916) 774-5461

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

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

Thank you.

INSURANCE REQUIREMENTS

The following sections are quoted from the General Conditions:

5-1.23 **INSURANCE COVERAGE.**

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

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

C. Insurance Required.

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

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

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

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

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

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

d. Such insurance shall specifically cover the contractual liability of

the Contractor.

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

f. Waiver of subrogation endorsement.

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

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

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

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

5. **Builder's Risk/Course of Construction Insurance Is ____ OR Is Not** X **Required by Risk Management:** The Contractor shall be responsible for all loss, damage or destruction whatsoever to the work called for by this Contract until the approval of a Notice of Completion or acceptance of the Work if no Notice of Completion is to be recorded.

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

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

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

6. **Pollution Coverage: Pollution Coverage is not required**

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

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

5-1.24 **OTHER INSURANCE PROVISIONS.**

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

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

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

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

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

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

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

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

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

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

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

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

Bond No. _____
Premium $_____

PUBLIC WORKS
FAITHFUL PERFORMANCE BOND
(Project: Electric Landscape Improvements- Fiddyment Substation)

WHEREAS, the City of Roseville ("CITY") has awarded a bid and contract to _____ as contractor ("PRINCIPAL") for the public work described as _____ _____ (the "WORK"). The contract ("AGREEMENT"), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

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

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

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

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

this paragraph to the contrary notwithstanding, the obligation of the SURETY shall continue so long as any obligation of the PRINCIPAL remains.

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

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

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

2. Reimburse CITY for all costs CITY incurs in completing the AGREEMENT, and in correcting, repairing or replacing defects in materials or workmanship and/or materials and workmanship which do not conform to the specifications in the AGREEMENT.

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

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

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

[SIGNATURES NEXT PAGE]

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

PRINCIPAL:	SURETY:
BY:_____	BY:_____
PRINT NAME: _____	**PRINT NAME:** _____
PRINT TITLE: _____	**PRINT TITLE:**_____
AND	MAILING ADDRESS:
BY: _____	_____
PRINT NAME: _____	_____
PRINT TITLE:_____	_____

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

APPROVED AS TO FORM:

BY: _____
City Attorney

Bond No. _____
Premium $_____

PUBLIC WORKS
LABOR AND MATERIALS PAYMENT BOND
(Project: Electric Landscape Improvements- Fiddyment Substation)

WHEREAS, the City of Roseville ("CITY"), has awarded a bid and contract to _____ as contractor ("PRINCIPAL"), for the public work described as _____ _____ (the "WORK"). The contract ("AGREEMENT"), for the public work described above, and all of its terms and conditions are incorporated by reference and made a part hereof; and

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

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

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

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

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

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

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

PRINCIPAL:	SURETY:
BY:_____	BY:_____
PRINT NAME: _____	**PRINT NAME:** _____
PRINT TITLE: _____	**PRINT TITLE:**_____
AND	MAILING ADDRESS:
BY: _____	_____
PRINT NAME: _____	_____
PRINT TITLE:_____	_____

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

APPROVED AS TO FORM:

BY: _____
City Attorney

CITY OF ROSEVILLE

GENERAL CONDITIONS

FOR

BUILDINGS AND GROUNDS

CITY OF ROSEVILLE
GENERAL CONDITIONS
FOR
BUILDINGS AND GROUNDS

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SECTION 1

DEFINITIONS AND TERMS

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

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

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

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

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

with certain contractual requirements.

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

1-1.07 **BID GUARANTY.** The cashier's, certified check, irrevocable standby letter of credit, deposit of securities, or Bidder's Bond, accompanying the bid submitted by the Bidder, as a guaranty that the Bidder will enter into an agreement with the City for the performance of the Work, if the Agreement is awarded to Bidder, and the Bidder will submit the required Contract Bonds and Certificate of Insurance. Also referred to as the Bidder's Security.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

E. Supplemental costs including the following:

1. The proportion of necessary transportation, travel and subsistence

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

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

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

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

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

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

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

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

equipment and/or facilities.

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

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

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

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

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

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

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

1-1.35 **LIQUIDATED DAMAGES.** The amount prescribed in the Contract Documents to be paid to the City or to be deducted from any payments due or to become due the

Contractor for each day's delay in completing the whole or any specified portion of the Work beyond the time allowed in the Supplemental Conditions.

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

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

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

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

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

B. Expenses of Contractor's principal and branch offices other than Contractor's office at the site.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

the Work Site.

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

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

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

SECTION 2

CONTROL AND SCOPE OF THE WORK

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

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

satisfactory and workmanlike manner.

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

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

2-1.03 **EXAMINATION AND VERIFICATION OF CONTRACT DOCUMENTS.** The Contractor shall thoroughly examine and become familiar with all of the various parts of the Contract Documents and shall determine the nature and location of the Work, the general and local conditions (including applicable laws) and all other matters which can in any way affect the cost, progress or performance of the Work under this Agreement. Failure to make an examination necessary for this determination shall not release the Contractor from the obligations of the Agreement. No oral agreement or conversation with any officer, or employee

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

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

2-1.05 **COORDINATION AND INTERPRETATION OF CONTRACT DOCUMENTS.** All Contract Documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary, and to describe and provide for a complete Work.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

15. Mechanical drawings

16. Printouts of all software programs and configuration files

17. Factory and field test procedures and results

Operation and maintenance manuals for complex equipment shall also include:

18. Alternate specified operating modes

19. Emergency shutdown instructions

20. Normal shutdown instructions

21. Long term shutdown instructions

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

B. Affidavits. Where required in the Supplemental Conditions or Specifications, manufacturers of equipment shall provide field service as a part of this project. Equipment shall not be considered ready for full time operation until after the authorized factory-trained and qualified manufacturer's representative for the specific equipment has checked and adjusted the equipment and certified by written affidavit that the equipment has been properly Installed, tested, adjusted, lubricated, and calibrated, and is ready for full time operation. Acceptable affidavits shall be submitted prior to completion of the Work. Affidavits shall contain the following specific wording:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2-1.12 **UTILITY FACILITIES.** The Contractor shall protect from damage those utility facilities that are to remain in place, be Installed, relocated or otherwise arranged.

The Contractor's attention is directed to the possible existence of facilities not shown, and of facilities in a location different from that, which is indicated. The Contractor shall take steps to ascertain the exact location of all facilities prior to doing any Work, which may damage such facilities or interfere with their service. Where the location of a facility is indicated or inferred from the presence of visible facilities such as buildings, meters, and junction boxes, the Contractor shall make such excavations and explorations as are necessary to ascertain the correct location. Unless provided for elsewhere in the Contract Documents, the cost of such excavations and explorations will be considered as a part of the cost of other items of Work and no additional payment will be made. Such excavations and exploratory Work shall not entitle the Contractor to an extension of time.

If the Contractor discovers underground facilities not indicated or inferred from the Contract Documents, the Contractor shall immediately give the Director written notification of the existence of those facilities. The Contractor shall determine the exact location of the underground facilities and the cost of the work will be paid for in accordance with the Contract Documents. The underground facilities shall be protected from damage as directed by the Director and the cost of that work will be paid for as extra work. The Contractor shall, if directed by the Director, repair any damage, which may occur to the underground facilities. The cost of that repair work, not due to the failure of the Contractor to exercise reasonable care, will be paid for as extra work. Damage due to the Contractor's failure to exercise reasonable care shall be repaired at the Contractor's cost and expense.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2-1.27 **REMOVAL OF REJECTED AND UNAUTHORIZED WORK.** All Work which has been rejected shall be remedied, or removed and replaced by the Contractor in a manner acceptable to the Director and no compensation will be allowed the Contractor for such removal, replacement, or remedial Work.

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

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

SECTION 3

CHANGES IN THE WORK

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

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

default under this Agreement.

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

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

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

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

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

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

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

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

A. Lump sum. The Contractor and the City may agree on a lump sum amount for the Change Order. At the City's request, the Contractor will provide pricing for the work. Maximum markups for Contract Change Orders paid for using lump sum pricing shall be paid for in the same manner and in the same amounts as markups for Force Account work, as described in Section 3-1.06 below.

B. Unit Prices. The unit prices set forth in the Contractor's Schedule of Bid Prices will be utilized where they are applicable and acceptable to the City. The Contractor's unit prices shall remain firm and shall not be subject to adjustment unless and until the actual quantity of work is increased or decreased by Contract Change Order in an amount greater than twenty-five percent (25%) from the estimated quantity indicated for such item. No markups will be given for Contract Change Orders paid for using unit prices.

Unit prices for new items included in the Contract Change Order but not included in the original bid shall be as mutually agreed upon or, in the absence of agreement, as determined by the City in the same manner as if the work were to be paid for on a Force Account basis, as described in Section 3-1.06 below.

C. Force Account. Where the City and the Contractor are unable to agree on lump sum pricing and if the City does not elect to utilize the unit prices in Contractor's bid, or such unit prices are not applicable, the changed work will be performed and tracked by the Contractor as Force Account work, as described in Section 3-1.06 below. The City will pay for such work, including markups, properly attributable to the change in accordance with those Force Account provisions.

D. Eliminated Items. The City reserves the right to delete any bid item of Work in its entirety. The City makes no representation that any work under a bid item of Work

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

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

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

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

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

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

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

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

furnished, or rented by the Contractor, no cost therefore shall be recognized in excess of the equipment rental rates published by Caltrans at the following website address: http://www.dot.ca.gov/hq/construc/equipmnt.html. Equipment located at a Work Site and utilized on non-Force Account work shall not eligible for standby payment, and shall be charged on a Force Account basis only when solely performing pre-approved Force Account work tasks.

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

15 percent for labor;

10 percent for materials; and

5 percent for equipment rental.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION 4

CONTROL OF MATERIALS

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

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

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

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

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

before Acceptance of the Contract.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

C. Costs of Testing.

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

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

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

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

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

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

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

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

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

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

SECTION 5

LEGAL RELATIONS AND RESPONSIBILITY

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

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

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

5-1.03 **NONDISCRIMINATION.**

A. Attention is directed to Labor Code Section 1735, which reads as follows:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5-1.05 **REGISTRATION REQUIRED AS QUALIFICATION TO BID.**

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

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

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

1. The information contained in the payroll record is true and correct.

2. The employer has complied with the requirements of Section 1771, 1811, and 1815 for any work performed by his or her employees on the public works project.

B. The payroll records enumerated under subdivision (A) shall be available for inspection at all reasonable hours at the principal office of the Contractor on the following

basis:

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

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

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

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

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

E. Any copy of the records made available for inspection as copies and furnished upon request to the public or any public agency by the City, the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement shall be marked or

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

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

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

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

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

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

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

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

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

19. Transite (Asbestos) Pipe Work Procedure.

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

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

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

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

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

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

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

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

1. All notices, orders, directives, administrative or judicial proceedings, fines, penalties, fees, or charges imposed by any governmental agency with jurisdiction; and

2. Any claim, cause of action, or administrative or judicial proceeding brought against the City, its officers, agents, employees, and volunteers for any loss, cost (including reasonable attorneys' fees), damage or liability, sustained or suffered by any person or entity, including the City.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

regarding asbestos removal and disposal, including but not limited to, 42 U.S.C. Sections 7401, 7412 and 7601, 40 C.F.R. Part 61, Subpart M, and California Code of Regulations Section 1529, Title 8.

If the Contractor discovers that a building to be demolished or renovated contains asbestos containing material, the Contractor shall immediately cease Work and notify the City.

5-1.15 **USE OF PESTICIDES.** The Contractor shall comply with all local, state and federal rules and regulations of the Department of Food and Agriculture, the Department of Health, the Department of Industrial Relations and all other agencies which govern the use of pesticides required in the performance of the Work.

Pesticides shall include but shall not be limited to herbicides, insecticides, fungicides, rodenticides, germicides, nematocides, bactericides, inhibitors, fumigants, defoliants, desiccants, soil sterilants, and repellents.

Any substance or mixture of substances intended for preventing, repelling, mitigating, or destroying weed, insects, diseases, rodents, or nematodes and any substance or mixture of substances intended for use as a plant regulator, defoliant or desiccant shall be considered as pesticide.

5-1.16 **SOUND AND LIGHT CONTROL REQUIREMENTS.** The Contractor shall comply with all local sound control, light control, and noise level rules, regulations and ordinances which apply to any Work performed pursuant to the Contract. Work shall not begin before 7 a.m. nor occur after 7 p.m., unless otherwise permitted by the City.

Each internal combustion engine, used for any purpose on the Work or related to the Work, shall be equipped with a muffler, in good working order, of a type recommended by the manufacturer. No internal combustion engine shall be operated on the project without said

muffler.

5-1.17 **WEIGHT LIMITATIONS.** Unless expressly permitted elsewhere in the Contract Documents, the Contractor shall not operate construction equipment or vehicles of any kind which, laden or unladen, exceed the maximum weight limits set forth in Division 15 of the Vehicle Code over completed or existing base, surfacing, pavement or structures.

5-1.18 **ENVIRONMENTAL CLEARANCES; MITIGATION MONITORING PROGRAMS; AND REGULATORY AGENCY PERMIT REQUIREMENTS.** The Department will obtain all environmental clearances and other authorizations necessary for this project as set forth in the Contract Documents. The Contractor shall comply with the provisions, including giving notices during construction when required, of said authorizations. In the event the obtaining of said authorizations delays completion of all or any portion of the Work, an extension of time determined pursuant to the provisions in Section 6-1.08, "Liquidated Damages," of these General Conditions will be granted.

Contractor shall comply with: (1) all mitigation identified in the mitigation monitoring program (attached to and adopted as a component of the mitigated negative declaration or Environmental Impact Report) to mitigate impacts to protected natural resources; and (2) all related permit requirements issued by the regulatory agencies authorizing the project. Contractor shall defend, indemnify, and save and hold harmless the City, its officers, agents, employees, and volunteers from any fines, claims, suits, actions or regulatory sanctions of every name, kind and description brought forth, or on account of, damage to protected natural resources from or arising out of Contractor's negligence or willful misconduct in the performance of this Agreement.

5-1.19 **PERMITS AND LICENSES.** The Contractor acknowledges and agrees that, prior to the submission of its bid for the Work, it fully familiarized itself with the

requirements of all applicable federal, state, county and municipal laws, codes, rules, and regulations, as well as the conditions of any required licenses and permits.

The Contractor shall procure all permits and licenses, including any applicable building permits (except those procured or to be procured by the City which are listed elsewhere in the Contract Documents), in coordination with the Director, pay all charges and fees, and give all notices necessary and incident to the due and lawful prosecution of the Work. Contractor shall be responsible for applying, paying all fees, and coordination for obtaining all permits for completion of the Work. All permits and licenses shall be obtained in sufficient time to prevent delays to the Work. Contractor will apply to the City for reimbursement for such permits costs. Accordingly, Contractor should not include the anticipated costs for permits in its bid, as the necessary permit costs will be reimbursed by the City.

The California Environmental Quality Act (Public Resources Code, Section 21000 to 21177) may be applicable to permits, licenses and other authorizations which the Contractor must obtain from State or local agencies in connection with performing the Work. The Contractor shall comply with the provisions of that Act in obtaining such permits, licenses and other authorizations, and all permits, licenses and other authorizations shall be obtained in sufficient time to prevent delays to the Work.

The Contractor shall maintain the applicable Contractor's license as identified in the Notice to Contractors and City business license for the duration of the Work.

5-1.20 **WATER POLLUTION.** The Contractor shall comply with all water pollution control rules, regulations, ordinances and statutes which apply to any Work performed pursuant to the Contract, including any water pollution control rules, regulations, and statutes, specified by the most current State of California NPDES General Permit for Stormwater

Discharges Associated with Construction Activity.

The Contractor shall take all necessary precaution to protect streams, vernal pools, ponds, reservoirs, and lakes from pollution with fuels, oils, bitumen, calcium chloride, and other harmful materials as consistent with the law. Also, the Contractor shall conduct and schedule operations so as to avoid discharging pollutants, such as but not limited to: sediment and silt to the storm drain system. The storm drain system consists of all facilities that are designed to convey stormwater to the Waters of the State as defined in the California Water Code. The storm drain system includes, but is not limited to, all streets, gutters, drain inlets, roadside ditches, streams, vernal pools, ponds, and lakes. Care shall be exercised to preserve roadside vegetation beyond the limits of construction.

5-1.21 **PROTECTION AND USE OF PROPERTY.** The Contractor shall be responsible for and provide and maintain all proper temporary walkways, covered walkways, barriers, roads, guards, railings, lights, warning signs, and take precaution at all times to avoid injury or damage to any person or any property, and upon completion of the Work, or at other times as directed, restore Premises and adjacent property to a proper condition. In the event of such injury or damage, Contractor shall report such injury and damage to City within forty-eight (48) hours of occurrence.

The Contractor shall protect adjoining property and nearby buildings, including City buildings, City roads, and public streets or roads, from dust, dirt, debris, or the nuisance arising out of the Contractor's operations or storage practices, and, if ordered by the Director, the Contractor shall provide and Install suitable safeguards, approved by the Director, to protect such objects from damage. If such objects are damaged by reason of the Contractor's operations, they shall be replaced or restored at the Contractor's expense.

If the Contractor damages any buildings, roads, utilities, or other property which belong to the City, or any Department or agency thereof, then the Director, at his or her option, may retain from the money due under the Contract an amount sufficient to insure repair of the damage.

The Director may make or cause to be made such temporary repairs as are necessary to restore to service any such damaged facility. The cost of such repairs shall be borne by the Contractor and may be deducted from any moneys due or to become due the Contractor under the Contract.

5-1.22 **RESPONSIBILITY FOR DAMAGE AND INDEMNIFICATION.**

The City of Roseville, its officers, agents, employees, and volunteers, including but not limited to the Director and his or her designee, shall not be answerable or accountable in any manner: for any loss or damage that may happen to the Work or any part thereof; for any loss or damage to any of the materials or other things used or employed in performing the Work; for injury to or death of any person, either workers or the public; or for damage to property from any cause which might have been prevented by the Contractor, its workers, or anyone employed by the Contractor or the Contractor's Subcontractors.

The Contractor shall be responsible for any liability imposed by law and for injuries to, or death of, any person including, but not limited to, workers and the public, or damage to property resulting from defects or obstructions, or from any cause whatsoever during the progress of the Work or at any time before its completion and final Acceptance.

To the fullest extent allowed by law, the Contractor shall defend (through counsel acceptable to the City), indemnify, and save and hold harmless the City, and its respective officers, agents, Subcontractors, employees, and volunteers, and the successors and assigns of

any of them, (hereinafter referred to as "Indemnitees") from and against all claims, demands, liability, suits, actions, costs or expenses for any and all loss or damage, including but not limited to, personal injury, property damage, or economic loss, arising out of or resulting from allegations of (1) Contractor's use of the City's property or any activities or Work performed hereunder by the Contractor; (2) the Contractor's performance of the Work under the Agreement; or (3) the Contractor's breach of any provision of the Agreement. The duty of the Contractor to indemnify and save harmless includes the duties to defend as set forth in Civil Code Section 2778. The only exception to these provisions is that the Contractor's obligations under this section will not apply to the extent that the claims, demands, liability, suits, actions, costs or expenses are caused by Indemnitees' active negligence, willful misconduct, criminal acts, or for defects in design furnished by the Indemnitees, misconduct, criminal acts, or for defects in design furnished by the Indemnitees.

The Contractor waives any and all rights to any type of express or implied indemnity against the City, its officers, agents, employees, or volunteers.

The Contractor's responsibility for such defense and indemnity obligations shall survive the termination or completion of this Contract for the full period of time allowed by law. The defense and indemnity obligations of this Contract are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in this Contract. The parties intend that the defense and indemnity obligations in this Contract shall be broadly construed.

Any person, firm or corporation that Contractor authorizes to Work on the City's property including Subcontractors, shall be deemed to be an agent of the Contractor for purposes herein, shall be subject to all the applicable terms herein, and shall be within the scope of the Contractor's indemnity obligation described herein.

In addition to any remedy authorized by law, so much of the money due the Contractor under and by virtue of the Contract as shall be considered necessary by the Department may be retained by the City until disposition has been made of such suits or claims for damages.

The retention of money due the Contractor shall be subject to the following:

A. The City will give the Contractor thirty (30) Days' notice of its intention to retain funds from any partial payment which may become due to the Contractor prior to Acceptance of the Contract. Retention of funds from any payment made after Acceptance of the Contract may be made without such prior notice to the Contractor.

B. No retention of additional amounts out of partial payments will be made if the amount to be retained does not exceed the amount being withheld from partial payments pursuant to Section 7-1.07, "Progress Payments," of these General Conditions.

C. If the City has retained funds and it is subsequently determined that the City is not entitled to be indemnified and saved harmless by the Contractor in connection with matter for which such retention was made, the Department shall be liable for interest on the amount retained at the legal rate of interest for the period of such retention.

5-1.23 **INSURANCE COVERAGE.**

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

provide ten (10) days prior written notice to the City of any reduction of coverage limits or cancellation of the coverage or policies shall be given to the City of Roseville as Certificate holder.

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

C. Insurance Required.

1. Commercial General Liability (CGL): Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations with limits of no less than Two Million Dollars ($2,000,000) per occurrence for bodily injury, personal injury and property damage for projects under One Million Dollars ($1,000,000) and limits of no less than Five Million Dollars ($5,000,000) per occurrence for bodily injury, personal injury and property damage for projects over One Million Dollars ($1,000,000). If a general aggregate limit applies, either the aggregate limit shall apply separately to this project or the general aggregate limit shall be twice the required occurrence limit.

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

a. Inclusion of the City of Roseville, and its officers, agents, employees, and volunteers, as additional insureds (except for workers' compensation) as respects services or operations under the Contract. The additional insured endorsement for the general liability policy shall be at least as broad as the ISO CG 2010 10 01 combined with ISO CGL

Endorsement CG 2037 10 01. Any other endorsement must be approved in writing by the City. Endorsements must include coverage for on-going and completed operations, which coverage shall be maintained for four (4) years following completion of the Project. Endorsements shall cover the City of Roseville, its officers, agents, employees, and volunteers.

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

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

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

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

f. Waiver of subrogation endorsement.

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

2. Automobile Liability: Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), or if Contractor has no owned autos, Code 8 (hired) and Code 9

(non-owned), with limits of no less than One Million Dollars ($1,000,000) per accident for bodily injury and property damage.

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

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

5. Builder's Risk/Course of Construction Insurance (If Required by Risk Management): The Contractor shall be responsible for all loss, damage or destruction whatsoever to the work called for by this Contract until the approval of a Notice of Completion or acceptance of the Work if no Notice of Completion is to be recorded.

The Contractor shall secure "All Risk" type of builder's Risk Insurance of the type covering one hundred percent (100%) of the value of the work performed under this Contract (the value is presumed to be the Contract amount unless otherwise stated in Supplemental Conditions) and all materials, equipment, or other items to be incorporated therein while the same are located at the construction site, a bonded warehouse, or its place of manufacture. At any time, the policy shall cover the value of the work completed. The policy shall cover hazards

including the losses due to fire, explosion, hail, rain, lightning, flood (separate insurance as needed), vandalism, malicious mischief, wind, collapse, aircraft, and smoke.

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

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

6. Pollution Coverage: Contractor shall procure pollution liability coverage or other insurance covering claims for bodily injury or property damage arising out of the abatement, removal, storage, transportation, or other exposure to hazardous materials or pollutants, in limits not less than Two Million Dollars ($2,000,000). Contractor shall add the City and all parties required to be indemnified by Contractor as additional insured on all pollution liability policies.

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

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

5-1.24 **OTHER INSURANCE PROVISIONS.**

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

B. The City acknowledges that some insurance requirements contained in these Standard Specifications may be fulfilled by self-insurance on the part of the Contractor. However, this shall not in any way limit liabilities assumed by Contractor under the Contract. Any self-insurance must be approved in writing by the City, in its sole discretion and shall not reduce the limits of liability. Any deductibles or self-insured retentions ("SIR") must be declared on the certificate of insurance and approved by City in writing. Policies containing any SIR provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named insured or City. City reserves the right to obtain a full certified copy of any insurance policy and endorsements. The failure to exercise this right shall not constitute a waiver of such right.

C. The Contractor agrees to include in its contracts with all subcontractors the same requirements and provisions of this Contract, including the indemnity and insurance requirements, to the extent they apply to the scope of the subcontractor's work. Furthermore, the Contractor shall require its subcontractors to agree to be bound to the Contractor and the City in the same manner and to the same extent as the Contractor is bound to the City under this Contract. Additionally, the Contractor shall obligate its subcontractors to comply with these

same provisions with respect to any tertiary subcontractor, regardless of tier. A copy of the City's indemnity and insurance provisions will be furnished to the subcontractor or tertiary subcontractor upon request. Alternatively, the Contractor may insure subcontractor(s) under its own policy.

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

E. The limits of insurance required in this Contract may be satisfied by a combination of primary and excess insurance. Any excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and noncontributory basis for the benefit of the City (if agreed to in a written contract) before the City's own insurance shall be called upon to protect it as a named insured.

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

G. Contractor shall be responsible for all premiums, deductibles, and self-insured retention applicable to the insurance it is required to procure under the Contract. All deductibles or self-insured retentions over five hundred thousand dollars ($500,000) must be approved by the City, in writing. Contractor shall be responsible for all deductibles, self-insured

retention payments, and/or increased premiums incurred if the City's policies of insurance are forced to cover damages or respond to claims for which Contractor or its Subcontractors were obligated to provide insurance under the Contract.

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

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

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

5-1.25 **THIRD PARTY BENEFICIARY.** No provisions in the Contract Documents shall in any way inure to the benefit any third party (including the public at large or any member thereof) so as to constitute such person a third party beneficiary of the Contract, or of any term or condition or other provision of the Contract or otherwise give rise to any cause of action in any person not a party to the Agreement, except as expressly provided elsewhere in the Contract Documents.

5-1.26 **COORDINATION AND ACCESS.** The Contractor acknowledges that the City may award, or has already awarded, other construction contracts for additional work or may perform additional work with its own forces and that such work may affect the Work under this Agreement. Additionally, the Contractor acknowledges that the State and other public and private agencies may be granted a right-of-entry by the City for the purpose of constructing

facilities within and adjacent to the Work Site. It is the obligation of the Contractor to coordinate its Work with the work of others working within or adjacent to the City's property.

During performance of its Work, the Contractor shall not have exclusive access to or use of the work areas. The City may also require that certain facilities and areas be used concurrently by the Contractor and by other contractors working in the area. When two (2) or more contractors are employed on related or adjacent City work, each shall conduct its operations in such a manner as not to cause any unnecessary delay or hindrance to the other. Each contractor shall be responsible to the other for all damage to any work, to persons or property caused to the other by its operations, and for loss caused the other due to any unnecessary delays or failure to finish the work within the time specified for completion.

If any party of the Contractor's Work depends on the work of any other contractor and/or the City for proper execution and/or results, the Contractor shall promptly notify the City of any discrepancies and/or defects in said other work that would render its work unsuitable for proper execution and/or results prior to proceeding with the Contractor's own Work. If it becomes necessary, the City will resolve coordination and access problems.

The Contractor and its representative in charge of the Work shall familiarize themselves with the City's property and Work Site, and adjacent surroundings in the vicinity of said Wok, and any private or public operations on adjoining properties.

5-1.27 **OCCUPANCY BY THE DEPARTMENT PRIOR TO ACCEPTANCE.** The City may at any time notify the Contractor in writing that it intends to take Beneficial Occupancy of any portion of the Work even though the Work may not be substantially complete. Unless the reason for the City's taking Beneficial Occupancy is that the Contractor has not completed the Work (or portions thereof) in accordance with the Contract

Time, the City's Beneficial Occupancy shall relieve the Contractor from its responsibility for maintenance, loss or damage to that portion of the Work for which the City has taken Beneficial Occupancy other than that resulting from the Contractor's act or omission, negligence, willful misconduct or breach of warranty.

Should the Work (or portion thereof) not be completed in accordance with the Construction Schedule within the Contract Time (as adjusted under the terms of the Contract Documents), the City shall have the right, but not the obligation, to take Beneficial Occupancy of the Work. In such event, the Contractor shall not be entitled to any additional compensation on account of said occupancy by the City, nor shall the Contractor be relieved of any of its responsibilities under the Contract Documents, including, without limitation, Contractor's obligation to complete the Work in accordance with the Construction Schedule.

Beneficial Occupancy shall not be deemed an Acceptance by the City either of the Work or of any portion thereof, nor will it relieve the Contractor of full responsibility for correcting defective Work or materials found at any time before the formal written Acceptance of the entire Contract by the Director or during the full warranty period after such Acceptance, as provided in Section 7-1.12, "Warranty," of these General Conditions.

The City's Beneficial Occupancy shall not relieve the Contractor of its responsibility to maintain all insurance and bonds required under the Contract Documents until the entire project is accepted by the City.

5-1.28 **RIGHT TO OPERATE UNSATISFACTORY FACILITIES AND EQUIPMENT.** If, after Installation, the operation or use of the facilities or equipment to be furnished under this Contract proves to be unsatisfactory to the Director, the City shall have the right to operate and use such facilities or equipment until they can, without damage to the City,

be taken out of service for correction or replacement. Such period of use of the defective facilities or equipment, pending correction or replacement, shall in no way decrease the warranty period required for the acceptable corrected or replaced facilities or equipment.

5-1.29 **CONTRACTOR'S RESPONSIBILITY FOR THE WORK.** Except as otherwise provided herein, the Contractor shall have the charge and care of the Work and shall bear the risk of injury or damage to any part of the Work by the action of the elements or from any other cause whether arising from the execution or from the nonexecution of the Work until the Acceptance of the Contract by the Director. The Contractor shall rebuild, repair, restore, and make good all injuries or damages to any portion of the Work occasioned by any cause before its completion and Acceptance, and shall bear the expense thereof. In case of suspension of Work from any cause whatever, the Contractor shall be responsible for the Work and it shall also be responsible for all materials, and shall properly store them if necessary, and shall provide suitable drainage and erect temporary structures where necessary.

The Contractor will be relieved of responsibility for any injury or damage to the Work caused by the following:

A. An earthquake in excess of a magnitude of 3.5 on the Richter Scale or a tidal wave, when the effect of such has been proclaimed a disaster or state of emergency by the Governor of the State of California or by the President of the United States, or was of such magnitude at the site of the Work as to have been sufficient to have caused a proclamation of disaster or state of emergency, had it occurred in a populated area.

B. Occupancy and use by the Department or the public prior to the completion of the entire project.

C. Acts of the Federal Government or the public enemy.

5-1.30 **RESPONSIBILITY FOR UTILITIES.** The Contractor shall be responsible at its own cost for any and all Work, expense or special precautions caused or required by the existence or proximity of utilities encountered in performing the Work, including without limitation, repair of any or all damage and all hand or exploratory excavation required. The Contractor is cautioned that such utilities may include communication cables or electrical cables which may be high voltage, and when working or excavating in the vicinity of such cables, or the ducts enclosing such cables, the Contractor shall undertake at its own cost any special precautions required. Suitable warning signs, barricades, and safety devices shall be erected as necessary or required.

However, if during the course of the Work the Contractor encounters utility Installations which are not shown or indicated in the Contract Documents or which are found in a location substantially different from that shown, and such utilities are not reasonably apparent from visual examination, then the Contractor shall promptly notify the Director in writing. Where necessary for the Work of the Contract, the Director shall issue a written order to the Contractor to make such adjustments, rearrangement, repair, removal, alteration, or special handling of such utility, including repair of the damaged utility. The Contractor shall perform the Work described in such written order, and compensation therefor will be made in accordance with Section 3 of these General Conditions relating to changes in the Work. Except for the items of cost specified in said Section 3, the Contractor shall receive no compensation for any other cost, damage, delay, interference, or hindrance to him or her due to the presence of such utility. If the Contractor fails to give the notice specified above and thereafter acts without instructions for the Director, then the Contractor shall be liable for any or subsequent to discovery thereof, and the Contractor shall repair and make good such damage at its own cost.

The precise location of underground facilities can only be determined by careful probing or hand digging in compliance with Article 6 of the Cal/OSHA Construction Safety Orders which states in part:

> "Prior to opening an excavation, effort shall be made to determine whether underground installations, i.e., sewer, water, fuel, electric lines, etc., will be encountered, and if so, where such underground installations are located. When the excavation approaches the approximate location of such an installation, the exact location shall be determined by careful probing or hand digging, and, when it is uncovered, adequate protection shall be provided for the existing installation."

The location of known existing utilities and pipelines are shown on the Contract Drawings in their approximate locations. Some of the locations include multiple conduits. The Contractor shall exercise care in avoiding damage to those facilities which are to remain in service subsequent to the construction of the particular new facility involved and the Contractor will be held responsible for any repairs if damaged. The Contractor shall also exercise care in maintaining those pipes and facilities required for continuing operation of the existing facilities until such time as they can be abandoned. There is no guarantee that all utilities or obstructions are shown on the Contract Drawings or that the locations indicated are accurate.

The Contractor shall exercise extreme caution in working in the area adjacent to the existing pipelines and utility services. It is essential that all the existing facilities be maintained in service. Construction of the connections between the existing facilities and the new facilities shall be at times and during periods acceptable to the City. The Contractor shall advise the Director in writing of its proposed Construction Schedule for these connections at least forty-eight (48) hours in advance.

The Contractor shall uncover all piping and conduits, to a point one foot (1') below the pipe, where crossings, interferences, or connections are shown on the Contract Drawings, prior to trenching or excavating for any pipe or structures, to determine actual elevations. New pipelines shall be laid to such grade as to clear all existing facilities which are to remain in service. If the Contractor does not expose all required utilities, it shall not be entitled to additional compensation for Work necessary to avoid interferences nor for repair to damaged utilities. Excavations around underground electrical ducts and conduits shall be performed using extreme caution to prevent injury or damage to workers and to the electrical ducts or conduits.

5-1.31 **PROPERTY RIGHTS IN MATERIALS.** Nothing in the Contract shall be construed as vesting in the Contractor any right of property in the materials used after they have been attached or affixed to the Work or soil or after partial payment has been made as provided in Section 7-1.07, "Progress Payments," of these General Conditions for material delivered on the ground or stored subject to or under the control of the City and unused. All such material shall become the property of the City upon being so attached or affixed or upon payment for materials delivered on the ground or stored subject to or under the control of the City and unused, as provided in said Section 7-1.07.

5-1.32 **COURT ORDERED DELAY.** If, pursuant to court order, the Department temporarily suspends performance of all or any portion of the Work, an extension of time determined pursuant to the provisions in Section 6-1.08, "Liquidated Damages," of these General Conditions will be granted.

5-1.33 **NO PERSONAL LIABILITY.** Neither the Director, nor any other officer or authorized employee of the City, shall be personally responsible for any liability arising under or by virtue of the Contract.

5-1.34 **RIGHTS IN LAND AND IMPROVEMENTS.** The Contractor shall make no arrangements with any person or entity to permit occupancy or use of any land, structure or building within the limits of the Work, for any purpose whatsoever, either with or without compensation, in conflict with any agreement between the City and any third party owner, former owner, or tenant of such land, structure or buildings. The Contractor shall not occupy City-owned property outside the limit of the Work shown on the Contract Drawings unless it obtains prior approval.

5-1.35 **ANTITRUST CLAIMS.** The Contractor's attention is directed to the following provision of Public Contract Code Section 7103.5(b), which is applicable to the Contractor and its Subcontractors:

> " In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the contractor or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the contractor, without further acknowledgement by the parties."

5-1.36 **RIGHTS TO DRAWINGS, TECHNICAL DATA PATENTS.** Shop

Drawings and Working Drawings submitted to the City by the Contractor, Subcontractor or any lower tier Subcontractor pursuant to the Agreement, are the property of the City and the City may use, and disclose in any manner and for any purpose, Shop Drawings and Working Drawings delivered under the Contract.

Technical Data including manuals or instructional materials, computer or microprocessor software which are delivered or submitted to the City by the Contractor, Subcontractor, or any lower tier Subcontract pursuant to the Contract are the property of the City, and the City may use or disclose same in any manner and for any purpose.

The Contractor shall assume all costs arising from the use of patented materials, equipment, devices, or processes used on or incorporated in the Work, and shall defend, indemnify and save and hold harmless the City, and its duly authorized representatives, from all suits at law, or in equity, and actions of every nature for, or on account of the use of any patented materials, equipment, devices or processes. In case some materials, equipment, devices or processes are held to constitute an infringement and their use enjoined, the Contractor, at its expense, shall:

1. Secure for the City the right to continue using said materials, equipment, devices or processes by suspension of the injunction or by procuring a license or licenses; or
2. Replace such materials, equipment, devices, processes; or
3. Modify them so that they become non-infringing or remove the enjoined materials, equipment, devices or processes and refund the sums paid therefor without prejudice to any other rights of the City.

5-1.37 **PAYMENT OF TAXES.** Contractor shall pay all taxes and duties applicable to and assessable against any Work, equipment, materials, services, processes, and

operations incidental to or involved in the Agreement, including but not limited to, retail sales and use, transportation, export, import, business, and special taxes. The Contractor is responsible for ascertaining and acquainting itself with such taxes and making all necessary arrangements to pay them. The Contractor will maintain records that are auditable records, and these records shall be subject to the City's review to verify that Contractor's tax payments are current at all times.

The Contract Price paid for the Work shall include full compensation for all taxes which the Contractor is required to pay, whether imposed by Federal, State or local government, including, without being limited to, Federal excise tax. No tax exemption certificate nor any document designed to exempt the Contractor from payment of any tax will be furnished to the Contractor by the Department, as to any tax on labor, services, materials, transportation, or any other items furnished pursuant to the Contract.

The Contractor shall withhold and pay any and all sales and use taxes, withholding taxes, whether Federal, State, or local, Social Security taxes, State Unemployment Insurance charges and all other taxes which are now or hereafter may be required to be paid or withheld under any laws.

5-1.38 **GRATUITIES AND CONFLICT OF INTEREST.** The Contractor shall not offer or provide gratuities in the form of gifts, entertainment, loans, meals, rewards, and/or services to representatives of the City, including but not limited to, officers, employees, agents, Engineering Service Consultants, Consulting Engineers and Architects, Inspectors and/or Testing Agencies retained by the City. If it is found that the Contractor has violated this provision, the Contract may be subject to termination for default as defined elsewhere in these General Conditions.

During the term of the Contract and until the final payment has been made to the Contractor, the Contractor shall not employ or compensate in any manner whatsoever, the City's officers, employees and authorized representatives, agents, and any Engineering Service Consultants, Consulting Engineers and Architects, Inspectors, and/or Testing Agencies retained by the City. Any exception to the employment or compensation to any of the above named parties must be made in writing by the City. If the Contractor offers or provides employment or compensation to those named above during the term of the Contract, the Contract may be subject to termination for default.

5-1.39 **COOPERATION.** Should construction be under way by City forces or other forces or by other Contractors within or adjacent to the limits of the Work or should Work of any other nature be under way by such forces within or adjacent to said limits, the Contractor shall cooperate with all such forces to the end that any delay, interference or hindrance to their Work will be avoided. The right is reserved to perform other or additional Work at or near the site at any time, by the use of such forces.

5-1.40 **DIGGING TRENCHES OR OTHER EXCAVATIONS.** In the event any work involves digging trenches or other excavations that extend deeper than four feet (4') below the surface, City and Contractor shall comply with the following:

A. The Contractor shall promptly, and before the following conditions are disturbed, notify City in writing of any:

1. Material that the Contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.

2. Subsurface or latent physical conditions at the site differing from those made available to Contractor for inspection as provided in the project proposal.

3. Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract.

B. The City shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the Work shall issue a Change Order under the procedures described in the Contract.

C. In the event that a dispute arises between the City and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the Work, the Contractor shall not be excused from any scheduled completion date provided for by the Contract, but shall proceed with all work to be performed under the Contract. The Contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between the contracting parties. However, no claim of the Contractor under this clause shall be allowed unless the Contractor has given the notice required by this Section. No claim by the Contractor for an equitable adjustment hereunder shall be allowed if asserted after final payment under this Contract.

5-1.41 **CONTRACTOR REGISTRATION.** No contractor or subcontractor may work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. During the performance of this Contract, the Contractor and its subcontractors shall have a continuing legal obligation to maintain current

registration with the Department of Industrial Relations. The Contractor is hereby notified that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

5-1.42 **CITY OF ROSEVILLE ENCROACHMENT PERMITS AND RIGHTS-OF-WAY.** The Contractor need not obtain a separate encroachment permit from the City prior to construction within street rights-of-way or other City rights-of-way. Execution of the Contract by the City shall be deemed an encroachment permit for work required by the Contract within rights-of-way. All work shall conform to the rules and regulations of encroachment permits and shall be subject to the inspection and approval of the Director and City Engineer.

To the extent indicated in the Contract Drawings, the City will provide the rights-of-way over private lands or the site to enable the Contractor to perform its work. The Contractor shall be solely responsible for securing any additional rights-of-way desired by the Contractor. The City will not be a party to nor assume any liability for any separate agreements reached between the Contractor and any third parties with respect to these additional rights-of-way. The Contractor shall procure evidence that agreements are in place with said third parties before the Contractor uses those areas covered by the agreements. Any damage to such private lands caused by the Contractor's operations shall be the sole responsibility of the Contractor.

SECTION 6

PROSECUTION AND PROGRESS

6-1.01 **SUBLETTING AND SUBCONTRACTING.** The Contractor shall be responsible for all Work performed under the Contract. The Contractor shall give its personal attention to the fulfillment of the Contract and shall keep the Work under its control. Nothing in the Contract Documents shall create any contractual relationship between the City and any Subcontractor. The Contractor is fully responsible to the City for the acts and omissions of its Subcontractors of any tier. When any Subcontractor fails to prosecute a portion of the Work in a manner satisfactory to the Director, that Subcontractor shall not again be employed on the Work. Although the sections of the Contract may be arranged according to various trades, or general grouping of the Work, the Contractor is not obligated to sublet the Work in such manner. The Director will not arbitrate disputes among Subcontractors or between Contractor and one or more Subcontractors concerning responsibility for performing any part of the Work.

The on-site production of materials produced by other than the Contractor's own forces shall be considered as subcontracted. The erection, establishment or reopening of on-site plants for production of materials and the operation thereof in the production of materials for use on the Work shall conform to the requirements relating to labor set forth in the Contract Documents.

The Contractor shall also be responsible for coordinating the Work performed by Subcontractors and Suppliers.

The Contractor shall not substitute any person as Subcontractor in place of a Subcontractor listed on its bid proposal without the written approval of the Director. Substitutions must be in accordance with the provisions of the "Subletting and Subcontracting

Fair Practices Act" beginning with Public Contract Code Section 4100. Violations of this Act by the Contractor may subject it to penalties which may include cancellation of Contract, Assessment of ten percent (10%) of the Subcontractor's bid, and disciplinary action by the Contractors State License Board.

The Contractor shall pay any Subcontractors approved by the City for work that has been satisfactorily performed no later than seven (7) Days from the date of Contractor's receipt of progress payments by the City. Within seven (7) Days after receipt from the City of funds attributable to work performed by a Subcontractor, Contractor shall release any retainage payments withheld to the Subcontractor. In the event Contractor does not make progress payments or release retention to Subcontractors in accordance with the time period specified herein, Contractor may be subject to prompt payment penalties per statute.

6-1.02 **ASSIGNMENT.** The performance of this Contract may not be assigned, except upon the written consent of the City Council of the City of Roseville. Consent will not be given to any proposed assignment which would relieve the original Contractor or its surety of their responsibilities under the Contract nor will the City consent to any assignment of a part of the Work under the Contract.

The Contractor may assign moneys due or to become due to it under the Contract and such assignment will be recognized by the City, if given proper notice thereof, to the extent permitted by law, but any assignment of moneys shall be subject to all proper set-offs in favor of the City and to all deductions provided for in the Contract and particularly all money withheld, whether assigned or not, shall be subject to being used by the City for the completion of the Work in the event that the Contractor should be in default therein.

6-1.03 **BEGINNING OF WORK.** After the execution of the Contract by both

parties, the City will issue the Notice to Proceed upon its determination that it is appropriate for the Contract Time to commence.

The Contractor shall begin Work within fifteen (15) Days after receiving the Notice to Proceed from the Director, subject to the requirements stated elsewhere in the Contract Documents regarding, among other things, the submittal of Baseline Schedule, and shall diligently prosecute the same to completion within the time limit provided in the Supplemental Conditions. Contractor shall also achieve any and all Contract milestones as described elsewhere in the Contract Documents.

The Contractor shall notify the Director, in writing, of its intent to begin Work at least seventy-two (72) hours before Work is begun. The notice shall be delivered to the Director and shall specify the date the Contractor intends to start. If the project has more than one (1) location of Work, a separate notice shall be given for each location.

The Contractor is not authorized to perform any Work until it has received a Notice to Proceed from the City. Should the Contractor begin Work in advance of receiving notice that the Contract has been approved as above provided, any Work performed by it in advance of the said date of approval shall be considered as having been done by the Contractor at its own risk and as a volunteer unless said Contract is so approved thereafter.

6-1.04 **PROGRESS SCHEDULE.**

A. Preliminary Progress Schedule. The Contractor shall submit to the Director, within twenty (20) Days after date of the Notice to Proceed, a Preliminary Progress Schedule covering the Contractor's activities over the first three (3) months of operation in detail and the remainder of the project in summary. The Preliminary Progress Schedule shall schedule the project within the Contract Time for completion of the Work, and shall be subject to

favorable review by the Director.

B. CPM Schedule. The Contractor shall submit an acceptable Critical Path Method (CPM) Schedule to the Director within thirty (30) Days after the receipt of the Notice to Proceed. Subsequent revisions to said schedule shall be submitted as set forth hereinafter. The requirement for the CPM schedule is included to allow for adequate planning and execution of the Work, to determine the critical nature of delays, and to assist the Director in appraising the reasonableness of the proposed schedule and evaluating progress of the Work. The CPM schedule submitted under this Section shall utilize a CPM format, either the precedence or arrow diagramming method. The definitions of CPM terms and functions shall be as provided in the Associated General Contractors of America book *CPM in Construction, A Manual for General Contractors*, or a favorably reviewed alternative publication or reference. No progress payment will be made prior to submission and acceptance of the CPM Schedule.

1. The CPM schedule system shall consist of diagrams and accompanying mathematical analyses. The diagrams shall show elements of the project in detail and an entire project summary. Diagrams shall show the order and interdependence of activities and sequence in which the Work is to be accomplished as planned by the Contractor. The basic concept of a network analysis diagram shall be followed to show how the start of a given activity is dependent on the completion of preceding activities and its completion restricts the start of following activities. Detailed network activities shall include, in addition to construction activities, the submittal and favorable review of samples of material and Shop Drawings, the procurement of critical materials and equipment, fabrication of special material and equipment, and their Installation and testing. All activities of the City and the Director that affect progress and required Contract dates for completion of all or parts of the Work shall be shown. The

selection and number of activities shall be subject to favorable review by the Director. Summary networks shall be time scaled. Durations shall be in Days and shall not exceed fifteen (15) Days, except for submittal and delivery items. Where the duration of continuous Work exceeds fifteen (15) Days, Work items in the Construction Schedule shall be subdivided by location, approximate stationing or other sub-element of the Work.

The graphic network diagram shall include for each activity, the description, activity number, the estimated duration in Days, and all activity relationship lines. The network diagram shall be drawn for the early start of activities. All significant Submittals shall be scheduled along with manual Submittals and training on all large or critical pieces of equipment. If the precedence technique is utilized, the schedule project shall include a calendar in Work Days, a network report sorted by early start and a logic table report sorted by preceding Work item. If the arrow technique is utilized, the schedule report shall include a calendar in Work Days, a network report sorted by early start, a network report sorted by I-J numbers, and a network sorted by slack time and I-J numbers.

2. The critical path shall be shown on all reports and on the graphic network diagram. The activities which constitute the critical path shall be identified.

3. The mathematical analysis of the network diagram shall include a tabulation of each activity. The following information shall be furnished as a minimum for each activity:

(a) preceding and following event numbers

(b) activity description and number

(c) estimated duration of activities

(d) earliest start date (by calendar date)

(e) earliest finish date (by calendar date)

(f) actual start date (by calendar date)

(g) actual finish date (by calendar date)

(h) latest start date (by calendar date)

(i) latest finish date (by calendar date)

(j) slack or float

(k) percentage of activity completed

4. The program shall be capable of accepting revised completion dates as modified by approved time adjustments and recomputations of all tabulation dates and float accordingly.

5. Submission and review of the system shall be as follows:

(a) The complete network analysis system, consisting of the detailed network mathematical analysis and network diagrams, shall be submitted within thirty (30) Days after receipt of the Notice to Proceed.

(b) The Contractor shall participate in a review and evaluation of the proposed network diagrams and analysis by the Director. Any revisions necessary as a result of this review shall be resubmitted for review by the Director within ten (10) Days. When completed, the favorably reviewed schedule shall then be the schedule to be used by the Contractor for planning, organizing and directing the Work and for reporting progress. If the Contractor thereafter desires to make significant changes in its method of operating and scheduling, the Contractor shall notify the Director in writing stating the reasons for the change.

(c) The Contractor shall submit at monthly intervals a report of the actual construction progress. Each monthly report shall cover a period of approximately thirty

(30) Days ending around the 20th of each month. The monthly reports shall be submitted within ten (10) Days of the end of the reporting period.

(1) If the project is proceeding on schedule, the monthly update report may consist of a marked-up copy of the graphical network diagram. This submittal shall clearly indicate the status of any minor shifts in sequence or schedule and the estimated completion date or percent complete of all activities currently in progress. The Contract completion date shall also be indicated. The Contractor shall submit a narrative report relating to status of construction, the schedule, and factors which may affect the remainder of the schedule. The report shall show the activities or portions of activities completed during the reporting period. The report shall state the percentage of the Work actually completed and scheduled as of the report date and the progress along the critical path in terms of Days ahead or behind the allowable dates.

(2) If, in the opinion of the Director, the project is behind schedule, the monthly report shall include a revised network diagram and/or mathematical analysis showing the Contractor's proposed revised schedule. An analysis of the effect that the delay has on progress along other paths shall also be included in the report. The Contractor shall also submit a narrative report with each updated analysis which shall include but not to be limited to a description of current and anticipated problem areas, delaying factors and their impact, and an explanation of corrective actions taken or proposed.

(3) Periodic report shall be submitted in sufficient copies to cover Contractor needs plus five (5) copies and an available electronic copy to be retained by the Director.

6. To the extent that the favorably reviewed initial Construction Schedule, or revisions thereto, indicate anything not jointly agreed upon, it shall be deemed to be not favorably reviewed by the Director. Any omission of Work from the detailed schedule, otherwise required for Contract compliance, will not excuse the Contractor from completing such Work within any applicable completion date. The CPM schedule shall be generated by computer methods.

C. Schedule Review. Once each month, on a date mutually agreed upon, but no later than seven (7) business days after the monthly schedule progress report date, a Work Site meeting will be held to review the Construction Schedule and job progress. The Contractor shall also attend weekly meetings scheduled by the Director to review the progress of the Work in the preceding week and in the subsequent week, coordinate the Work with public agencies or other Contractors as required, and allow the Director to plan his or her activities for testing, inspection, etc.

D. Schedule Revisions. The conditions under which the Director will require revisions of the Construction Schedule include the following:

1. When delay in completion of any Work item or sequence of Work items results in an estimated extension of project completion by either twenty (20) business days or by ten percent (10%) of the remaining duration of time to complete the Contract, whichever is less.

2. When delays in Submittals or deliveries make replanning or rescheduling of the Work necessary.

3. When the schedule does not represent actual prosecution and progress of the Work.

4. When any change to the sequence of activities, the completion date for major portions of the Work, or when changes occur which affect the critical path.

5. When Contract Amendments or a Change Order necessitates schedule revision, the Contractor shall submit a schedule analysis of all Change Order Work with its proposal.

E. Cash Flow Projection. A cash flow projection shall be submitted with the Construction Schedule. This cash flow projection shall be revised and resubmitted when revisions of the Construction Schedule will result in changes to the projected cash flow.

F. Schedules showing project completion dates earlier than specified in the Supplemental Conditions will be rejected unless justification can be provided for early completion.

6-1.05 **SCHEDULE OF VALUES.** Prior to preparation of the first estimate for a progress payment, the Contractor shall submit for favorable review by the Director a detailed Schedule of Values or cost breakdown of the Work under each bid item awarded. The breakdown will then become the basis for partial payment determination. Elements of Work shall be grouped by structure, pipeline, system, etc. Within each grouping, Work should be itemized by readily measurable quantities of Work complete in place. For example, concrete should be in units of cubic yards including form Work and reinforcing steel. Move-on costs, bond and insurance costs, and Overhead costs shall not be considered an item of cost for this purpose but shall be prorated over items of Work. In the event the Schedule of Values is not favorable reviewed by the Director, another Schedule of Values shall be submitted that is mutually acceptable to the Contractor and the Director.

6-1.06 **CITY'S RIGHT TO STOP WORK.** The Director shall have the

authority to order the Contractor, in writing, to suspend the Work wholly or in part, for such period as the Director may deem necessary due to the failure on the part of the Contractor to correct Work that is not in accordance with the requirements of the Contract Documents or if Contractor persistently fails to carry out Work in accordance with the Contract Documents.

The Contractor shall immediately comply with the written order of the Director to suspend the Work wholly or in part. The suspended Work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing by the Director.

Any stoppage of work under this section shall be at the Contractor's sole expense, and the Contractor shall have no claim against the City based on the Contractor's failure to perform the Work in accordance with the Contract Documents.

In addition to the City's right to stop Work, the City may order the Contractor to submit to the City at no additional cost to the City, additional information concerning Contractor's planned Work if the Contractor fails to promptly correct Work that is not in accordance with the requirements of the Contract Documents or persistently fails to carry out Work in accordance with the Contract Documents. The additional information ordered by the City may include, but is not limited to, preparation of Submittals or Working Drawings not otherwise required to be submitted under the Contract Documents.

In the event the City discovers that the Contractor has created an unsafe condition the City may arrange for other work forces to remedy the condition. Such remedial work shall be at the sole discretion of the City. If this action is required, the City may unilaterally terminate Work under the Contract, and will pay only for the quantities of Work actually performed, less the cost of the City's remedial Work. In the event that Work is not halted, the Contractor must take immediate steps to correct the situation. There will be no extra payment for Work required

to correct unsafe conditions.

The right of the City to suspend the Work shall not give rise to a duty on the part of the City to exercise this right for the benefit of the Contractor or any other person or entity. This right shall be in addition to and not in restriction or derogation of the City's other rights under the Contract Documents.

In the event of a suspension of Work under any of the conditions set forth in this Section 6-1.06, such suspension of Work shall not relieve the Contractor of its legal responsibilities as set forth in these General Conditions.

6-1.07 **TIME OF COMPLETION.** The Contractor shall complete the entire Work, including Installation, repairs, startup, troubleshooting, painting, and touchup, training, submittal or record drawings, and manuals, cleanup, demobilization, and all other Work within the number of Days set forth in the Supplemental Conditions. The time for completion includes an allowance for working time lost due to normal inclement weather.

Extensions of time may be allowed for unusual inclement weather under the provisions hereinafter described. Unusual inclement weather is weather which adversely affects "controlling" operations or the critical path of construction and which meets one of the following criteria:

A. For the particular calendar month in question, the number of individual Days with rainfall exceeding 0.10 inches exceeds the average number of such Days for that month over the immediately preceding five (5) years of record by at least three (3) Days.

B. For the particular calendar month in question, the total cumulative rainfall for that month exceeds the average cumulative rainfall for that month over the immediately preceding five (5) years of record by at least two inches (2").

Rainfall shall be measured at a publicly operated, maintained, and reported station in reasonable proximity to the construction site. A claim for delay shall indicate the period of rainfall which is claimed as "unusual," the specific dates during which the unusual rainfall and subsequent wet soil conditions prevented Work, and the specific critical path tasks adversely affected by such unusual weather. A claim for delay due to unusual inclement weather shall be filed within ten (10) Days of the apparent end of the unusual inclement rainfall period, whether or not the monthly totals are available at that time. The burden of proof that weather meets the criteria for unusual weather shall be solely the responsibility of the Contractor.

It is the responsibility of the Contractor to order materials required for the Work properly and promptly on a Notice to Proceed. If evidence presented demonstrates that, in spite of the Contractor's efforts, government-established priorities controls delay material deliveries, suitable extension of time will be made.

If performance of extra Work ordered by the City or failure of the City to provide the necessary site for Installation affects construction tasks which are "controlling" or which are on the "critical path" of the Construction Schedule, suitable extensions of time will be made.

The Contractor shall not be entitled to a time extension for delays in activities on non-critical paths of the favorably reviewed schedule unless the duration of the excusable delay exceeds the total float of the activities being delayed. If the duration of an excusable delay does exceed the total float of the activities affected by the delay, the Contractor shall be entitled to an extension equal to the difference.

C. Determination that a day is a non-working day by reason of inclement weather or conditions resulting immediately therefrom, shall be made by the Director.

6-1.08 **LIQUIDATED DAMAGES.** It is agreed by the parties to the Contract

that in case all the Work called for under the Contract in all parts and requirements is not completed within the number of Days as set forth in the Supplemental Conditions, damage will be sustained by the City and that it is and will be impracticable and extremely difficult to ascertain and determine the actual damage which the City will sustain in the event of and by reason of such delay; and it is therefore agreed that the Contractor will pay to the City, the monetary amount indicated in the Supplemental Conditions in dollars (U.S.) per day for each and every calendar day of delay in completing the Work in excess of the number of Days prescribed and the number of additional calendar days, if any, authorized by Contract Change Order; and the Contractor agrees to pay said Liquidated Damages herein provided for, and further agrees that the City may deduct the amount thereof from any moneys due or that may become due the Contractor under the Contract.

It is further agreed that in case the Work is not finished and completed in all parts and requirements within the number of Days specified, the City shall have the right to increase the number of Days or not, as it may deem best to serve the interest of the City, and if it decides to increase the said number of Days, it shall further have the right to charge to the Contractor, its heirs, assigns or sureties and to deduct from the final payment for the Work all of any part, as it may deem proper, of the actual cost of engineering, inspection, superintendence, and other Overhead expenses which are directly chargeable to the Contract, and which accrue during the period of such extension, except that cost of preparation of final statement shall not be included in such charges.

6-1.09 **DELAYS AND EXTENSIONS TO THE WORK.** The Contractor must complete all Work within the time specified in the Agreement. The Contractor will be granted an extension of time and will not be assessed with liquidated damages or the cost of engineering

and inspection for any delay in substantially completing the Work (or parts thereof) beyond the time set forth in the Agreement, provided that such delay was caused by unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include acts of public enemy, fire, floods, abnormal weather (as described below), earthquakes, epidemics, quarantine restrictions, strikes, labor disputes and freight embargoes, fire, changes made pursuant to the provisions of "Changes in the Work" under Section 3 of these General Conditions or acts or neglect of the City not contemplated by the Contract Documents. In all cases, any extension of time is conditioned on the following:

1. That the cause is not due to the fault or negligence of the Contractor, and the Contractor has taken reasonable precautions to prevent and minimize the effects thereof; and

2. That the Contractor notifies the Director in writing within three (3) Days from the beginning of such delay specifying the nature of the delay and the measures that have been or will be taken to prevent or minimize the delay. Failure to submit written notice within this time period shall constitute an absolute waiver of any claim for a time extension.

No extension of time will be granted for a delay caused by a shortage of materials, unless the Contractor furnishes to the City documentary proof that it has diligently made every effort to obtain such materials from all known sources within reasonable reach of the work and further proof, as acceptable to the Director, that the inability to obtain such materials when originally planned did in fact cause a delay in Final Completion of the entire Work which could not be compensated for by revising the sequence of the Contractor's operations. Only the physical shortage of material will be considered as a cause for extension of time, and no consideration

will be given to any claim that material could not be obtained at a reasonable, practical or economical cost or price, unless it is shown to the satisfaction of the City that such material could have been obtained only at exorbitant prices entirely out of line with current rates, taking into account the quantities involved and the usual practices in obtaining such quantities.

No extension of time will be granted for a delay caused by Contractor's staff turnovers, understaffing or insufficient quantity of qualified staff able to perform the necessary work.

The term "shortage of materials," as used in this section, shall apply only to materials, articles, parts or equipment which are standard items and shall not apply to materials, parts, articles or equipment which are processed, made, constructed, fabricated or manufactured to meet the specific requirements of the Contract Documents.

No extensions of time will be granted for delays that have no measureable impact on the completion of the Work (or parts thereof) under the Contract Documents. When extensions of time are granted, they will be limited to the period equivalent to the actual number of Days lost on the critical path or controlling operations of the Construction Schedule, taking into account the extent to which that delay could be decreased by reasonable mitigation measures by the Contractor. All requests for extensions of time must be supported with a critical path analysis showing the critical path and impacts to it. Contractor's failure to submit this analysis will be sufficient cause for denial of any request for a time extension.

Within a reasonable period of time after the Contractor submits the notice and information required by this section, the City will determine whether an extension of time is justified and, if so, the number of days for the extension.

Abnormal weather may be a valid basis for a time extension under the Agreement. "Abnormal Weather" occurs when the number of days of rain above 0.5 inches in a 24 hour

period exceeds the average for such rainfall in a particular month as determined by the National Weather Service. The Contractor will only be entitled to, at most, a time extension for the number of days of rain exceeding the average for that month in the locale where the Work is to be performed. If delays are caused by the Contractor or those for whom the Contractor is responsible, the Contractor will only be entitled to, at most, a time extension for the number of rain days exceeding the average for the month when the Work should have been performed.

In addition, before a time extension may be granted for abnormal weather, the Contractor must establish that the rain either significantly impacted at least sixty percent (60%) of the planned work of the controlling operations for a particular day or prohibited at least five (5) hours of work on the controlling operations planned for that day. Contractor shall employ reasonably methods to mitigate the impact of abnormal weather (i.e., dewatering, protection of site, etc.) The occurrence of rain during non-work hours or having minimal impact to work on the controlling operation shall not constitute a day of abnormal weather.

In the event that the project experiences favorable weather for a particular month (e.g., the number of actual rain days in a month less than that indicated above for allowable rain days per months), the additional float resulting from such favorable weather shall accrue to the project.

Any Contractor claim for damages or additional compensation based on delay shall be limited to only those circumstances where the Contractor has fulfilled each of the following three (3) requirements:

1. Contractor has established its entitlement to a time extension pursuant to the provisions described above regarding delay and extensions to the Work.
2. The delay was caused solely by the City's issuance of changes made pursuant to the

provisions of "Changes in the Work" under Section 3 of these General Conditions or by acts or neglect of the City.

3. The delay was unreasonable under the circumstances and not within the contemplation of the parties.

It is expressly understood and agreed that delays caused by the City will be non-compensable when there are concurrent delays caused by the Contractor. Also, the Contractor shall have no entitlement to additional compensation for any delay where there have been concurrent delays caused by non-compensable delays, including, but not limited to, fire, floods, earthquakes, epidemics, quarantine restrictions, strikes, labor disputes, and freight embargoes.

Contractor's damages and/or additional compensation for delays will consist solely of the extended costs of maintaining the Contractor's Work Site presence. The Contractor will not be entitled to any extended home office overhead.

Compensation for idle time of equipment will be determined in the same manner as determinations are made for equipment used in the performance of extra work paid for on a Force Account basis with the following exceptions:

1. The time for which compensation will be paid will be the actual normal working hours during which such delay conditions exists, but in no case will exceed eight (8) hours in any one day.
2. The days for which compensation will be paid will be each calendar day of the work week (defined elsewhere in the Contract Documents) and Legal Holidays, during the existence of such delay, except that when rental of the equipment is paid for under the provisions in Section 3-1.06C, "Force Account Payment – Equipment," of these General Conditions, no payment will be made for delays in accordance with the

provisions of this section.

Actual loss shall be understood to include no items of expense other than idle time of personnel, cost of extra moving of equipment, and cost of longer hauls. Compensation for idle time of equipment will be determined as provided in this section and compensation for idle time of personnel will be determined pursuant to Section 3-1.06A, "Force Account Payment – Labor," of these General Conditions. No markup will be added in either case for Overhead and profit. The cost of extra moving of equipment and the cost of longer hauls will be paid for as extra work as provided pursuant to "Changes to the Work" elsewhere in the Contract Documents.

6-1.10 **TERMINATION.**

6-1.10A **TERMINATION OF AGREEMENT – CONVENIENCE OF CITY.** The Department reserves the right to terminate the Contract at any time and for any reason if the Director determines that to do so would be in the best interest of the City. Any termination which is not based on the circumstances set forth in Section 6.1-10B below shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance of Work under the Contract is terminated, and the date upon which such termination becomes effective.

Upon the Contractor's receipt of a written Notice of Termination for convenience, the Contractor shall cease Work as to those portions of the project so terminated and shall undertake the steps outlined in Section 6-1.10B below.

1. Acceptance of the Contract as hereinafter specified shall not relieve the Contractor of responsibility for damage to materials except as follows:

   a. The Contractor's responsibility for damage to materials for which partial payment has been made as provided in Section 7-1.07, "Progress

Payments," of these General Conditions and for materials furnished by the City for use in the Work and unused shall terminate when the Director certifies that such materials have been stored in the manner and at the locations he or she has directed.

b. The Contractor's responsibility for damage to materials purchased by the City subsequent to the issuance of the notice that the Contract is to be terminated shall terminate when title and delivery of such materials has been taken by the City.

c. When the Director determines that the Contractor has completed the Work under the Contract directed to be completed prior to termination and such other Work as may have been ordered to secure the project for termination, the Contractor will recommend that the City formally accept the Work, and immediately upon and after such Acceptance by the City, the Contractor will not be required to perform any further Work thereon and shall be relieved of its contractual responsibilities for injury to persons or damage to property which occurs after the formal Acceptance of the project by the City.

2. The total compensation to be paid to the Contractor shall be determined by the Director on the basis of the following:

a. The reasonable cost to the Contractor, without profit, for all Work performed under the Contract, including mobilization, demobilization and Work done to secure the project for termination. Reasonable cost will include a reasonable allowance for project Overhead and general

administrative Overhead not to exceed a total of seven percent (7%) of Direct Costs of such Work.

b. A reasonable allowance for profit on the cost of the Work performed as determined under subsection (a), provided the Contractor establishes to the satisfaction of the Director that it is reasonably probable that it would have made a profit had the Contract be completed and provided further, that the profit allowed shall in no event exceed four percent (4%) of said cost.

c. The reasonable cost to the Contractor of handling material returned to the vendor, delivered to the Department or otherwise disposed of as directed by the Director.

d. A reasonable allowance for the Contractor's administrative costs in determining the amount payable due to termination of the Contract.

All records of the Contractor and the Contractor's Subcontractors, necessary to determine compensation in accordance with this Section, shall be open to inspection or audit by representatives of the Department at all times after issuance of the notice that the Contract is to be terminated and for a period of three (3) years, and such records shall be retained for that period.

After Acceptance of the Work by the Director, the Director may make payments on the basis of interim estimates pending issuance of the Final Statement, when in his or her opinion the amount thus paid, together with all amounts previously paid or allowed, will not result in total compensation in excess of that to which the Contractor will be entitled. All payments, including payment upon the Final Statement, shall be subject to deduction for prior payments and amounts, if any, to be kept or retained under the provisions of the Contract.

In the event that the City terminates this Contract under Section 6-1.10B below and it is determined for any reason that there was not sufficient cause to do so, the City's termination automatically will convert to a termination for convenience under this section and the terms and conditions outlined in this section automatically will be applied to effectuate the Contract termination. Thus, damages to which a Contractor may be entitled as a result of an improper default termination will be limited to the amounts provided for in this section.

The provisions of this section shall be included in all subcontracts.

6-1.10B **TERMINATION OF AGREEMENT - FOR CAUSE.** An "Event of Default" as referred to in this section shall occur if the Contractor:

1. Fails to maintain progress of the Work in accordance with the requirements of the Contract Documents; or
2. Fails to prosecute the Work or any of its components in accordance with the Contract Documents; or
3. Persistently or repeatedly fails or refuses to supply sufficient properly skilled workers or proper material to permit the performance of the Work in accordance with the Contract Documents; or
4. Fails to make prompt payment to Subcontractors or Suppliers in accordance with the respective agreements between the Contractor and the Subcontractor and Contractor and Supplier; or
5. Fails to comply with applicable laws, ordinances or rules, regulations or orders of a public authority having jurisdiction over the Work; or
6. Abandons, assigns or sublets the Contract without approval of the City; or
7. Becomes bankrupt or is subject to appointment of a receiver on behalf of the

Contractor; or

8. Otherwise is guilty of a substantial breach of a provision of the Contract Documents.

Upon the City's reasonable belief that there has been an Event of Default by the Contractor, the City may elect to give the Contractor written notice thereof. The Contractor thereafter shall cure the default as soon as possible and in no event after ten (10) Days from the Contractor's receipt of the City's written notice.

If the Contractor does not timely cure its default, the City may, without waiver of any of its other rights and remedies, elect to terminate the Contract, or portion thereof.

Upon the City's election to terminate the Contract, or portion thereof, the City shall have the right to complete the Work, or portion involved, by whatever means and methods it deems expedient, including the hiring of others on such terms as the City deems advisable. The City shall have the right to take possession of the Contractor's materials, plant, tools, equipment and property of any kind provided by or on behalf of the Contractor for the purpose of the Work, or a portion of them, without being responsible to the Contractor for wear and tear. The Contractor shall have no rights in such property during its use by the City. The City shall not be required to obtain the lowest prices for completing the Work or a portion of it but shall make such expenditures as, in the City's sole judgment, best accomplish such completion.

The expense of completing such Work or portion thereof, together with a reasonable charge for engineering, managerial and administrative services, as certified by the City, shall be charged to the Contractor, and the expense so charged shall be deducted by the City out of such monies as may be due or may at any time thereafter become due to the Contractor. In case such expense is more than the sum which otherwise would have been payable to the Contractor under the Agreement, then the Contractor or its surety or sureties shall promptly pay the amount of

such excess so due. When the City terminates the Contract under this section, the Contractor shall not be entitled to receive any further payments until the Work is completed and there has been a final settlement of costs of completing the Work covered by such notice of default.

The City will issue to the Contractor a written notice specifying that the Contract, or portion thereof, is terminated. Upon receipt of said written notice and, except as otherwise directed in writing by the City, the Contractor shall:

1. Stop all Work under the Contract; or if partial termination, stop Work relating to the terminated portion of the Agreement;
2. Perform Work the City deems necessary to secure the Work Site for termination including measures to leave the Work Site in a safe condition;
3. Remove equipment from the site of Work, as specified by the City;
4. Take such action as is reasonably necessary to protect materials from damage;
5. Notify all Subcontractors and Suppliers that the Contract or portion thereof is being terminated and that their contracts or orders are not to be further performed unless otherwise authorized in writing by the City;
6. Provide the City with an inventory list of all materials previously produced, purchased or ordered from Suppliers for use in the Work and not yet used in the Work, including its storage location, and such other information as the City may request;
7. Dispose of materials not used in the Work as directed by the Director. It shall be the Contractor's responsibility to provide the City (a) with good title to all materials purchased by the City hereunder, including materials for which partial payment has been made by the City and (b) with bills of sale or other documents of title for such

materials;

8. Subject to the prior written approval of the City, settle all outstanding liabilities and all claims arising out of Subcontractors or orders for materials terminated hereunder. To the extent directed by the City, the Contractor shall assign to the City all rights, title and interests of the Contractor under subcontracts or orders for materials terminated hereunder. The City shall be at liberty to negotiate with and engage any Subcontractors who had contracted with the Contractor for the Work;
9. Furnish the City with the documentation required to be furnished by the Contractor under the provisions of the Contract Documents, including, on projects as to which Federal funds are involved, all documentation required under the Federal requirements included in the Agreement; and
10. Take such other actions as the City may direct.

If only a portion of the Work has been terminated, the Contractor shall perform the remainder of the Work in conformity with the Contract Documents and in such a manner as not to interfere with the City or others in their performance and completion of the portion of the Work which was terminated.

The City may recover from the Contractor the amount of any loss or damage, including consequential damages, suffered or incurred as a result of the Contractor's default.

SECTION 7

ACCEPTANCE AND PAYMENT

7-1.01 **ACCEPTANCE.** When the Contractor believes that the entire Work is fully and finally completed, including the satisfactory completion of inspections, tests, and documentation specified in the Contract Documents and completion of all punch list and clean-up items, the Contractor shall submit to the City a written request for final Acceptance within fifteen (15) Days thereafter, specifying that the Work is fully and finally completed and the date on which it was completed. Within thirty (30) Days after receipt of the request for final Acceptance, the City will inspect the Work and will either:

1. Reject the request for final Acceptance, specifying the defective and/or uncompleted portions of the Work; or
2. Notify the Contractor that the Work will be accepted by Resolution of the City Council of the City of Roseville, and a Notice of Completion will be caused to be recorded by the City Clerk; or
3. Notify the Contractor that the Work has been accepted by the City but no Notice of Completion will be recorded.

If the City rejects the request for final Acceptance, the Contractor shall promptly remedy the defective and/or uncompleted portions of the Work. Thereafter, the Contractor shall again submit a written request for final Acceptance of the Work, specifying a new date based on the date the defective and/or uncompleted portions of the Work were corrected. Thereafter, the foregoing procedure shall apply successively until the City has verified that the Work is fully and finally completed and accepted the Work by Resolution of the City Council or by written

notification from the Director. Immediately upon such Acceptance, the Contractor shall be relieved of the duty of maintaining the Work as a whole.

All warranties commence upon final Acceptance of the Work. The City's final Acceptance of the Work shall not be construed as an acceptance by the City of any latent defects discovered with regard to the Contractor's work. Furthermore, Contractor's obligations under Section 5-1.22 "Responsibility for Damage and Indemnification" shall still remain applicable after the City's grant of final Acceptance of the Work.

Prior to final Acceptance, the Contractor shall submit to the City the Record Documents and Operation and Maintenance Manuals as specified in the Contract Documents.

7-1.02 **SCOPE OF PAYMENT.** The Contractor shall accept the compensation provided in the Contract as full payment for furnishing all labor, materials, tools, equipment, and incidentals necessary to the completed Work and for performing all Work contemplated and embraced under the Contract; also for loss or damage arising from the nature of the Work, or from the action of the elements, or from any unforeseen difficulties which may be encountered during the prosecution of the Work until the Acceptance by the Director and for all risks of every description connected with the prosecution of the Work, also for all expenses incurred in consequence of the suspension or discontinuance of the Work as provided in the Contract; and for completing the Work according to the Contract. Neither the payment of any estimate nor of any retained percentage shall relieve the Contractor of any obligation to make good any defective Work or material.

No compensation will be made in any case for loss of anticipated profits.

7-1.03 **NOTICE OF POTENTIAL CLAIM.** The Contractor shall not be entitled to the payment of any additional compensation for any act or failure to act by the City,

including failure or refusal to issue a Change Order, or for the happening of any event, thing, occurrence or other cause unless the Contractor has given the City due written Notice of Potential Claim as hereinafter specified, provided, however, that compliance with this Section 7-1.03 shall not be a prerequisite as to matters within the scope of the notice provisions in Section 6-1.07, "Time of Completion," or the notice provisions in Section 6-1.08, "Liquidated Damages," of these General Conditions, nor to any claim which is based on differences in measurement or errors of computation as to correct quantities.

The written Notice of Potential Claim shall set forth the reasons for which the Contractor believes additional compensation will or may be due, the nature of the costs involved, and, insofar as possible, the amount of the potential claim. The said Notice as above required must have been given to the Director prior to the time that the Contractor shall have performed the Work giving rise to the potential claim for additional compensation, if based on an act or failure to act by the Director, or in all other cases within seven (7) Days after the happening of the event, thing, occurrence or other cause giving rise to the potential claim.

If the Notice of Potential Claim does not include complete information about the claim or the parties do not execute a Contract Change Order in connection with the Notice of Potential Claim, Contractor shall submit complete information about its claim for additional compensation and/or extension of time for performance within fifteen (15) Days after such work is performed. Failure to provide written notice of claim prior to undertaking such work or failure to timely submit a complete and specific information about the claim for additional compensation and/or extension of the time for performance shall be deemed a waiver and abandonment of such claim.

If there is a dispute over any claim, the Contractor shall continue to Work during the dispute resolution process in a diligent and timely manner as directed by the City, and shall be

governed by all applicable provision of the Agreement.

The Contractor shall maintain cost records of all Work that is the basis of any dispute. On a daily basis, Contractor shall submit to City completed daily forms, the format of which will be acceptable to the City, with respect to the Contractor's costs of performing the disputed work. These daily forms shall itemize all of Contractor's costs in performing the disputed work, including, but not limited to, all costs relating to materials, labor and equipment with respect to the disputed work. These daily forms shall provide names or identification and classification of affected workers, the hourly rate of pay and hours worked, and also the size, type, and identification number of equipment and hours operated. Said daily work forms shall be duly signed and verified by the Contractor or its authorized representative. The City's receipt of the Contractors' daily forms shall not constitute an approval of the Contractor's claim. Contractor's failure to submit the daily forms on a daily basis shall constitute a waiver of the Contractor's right to claim any additional compensation for the disputed work.

Each Contractor claim shall include full and complete information concerning the Claim. Contractor shall provide a clear, concise recital of the basis, upon which the claim is asserted, including a designation of the provisions of the Contract Documents upon which the claim is based. Contractor shall also include a statement as to the amount of time and/or compensation sought pursuant to the claim; if Contractor's claim arises from an ongoing occurrence, Contractor shall so state in its claim, including a description of the specific Work activities affected by the claim. All costs, expenses or damages and extensions of time claimed shall be described in reasonable detail under the circumstances together with complete supporting documentation.

The City will review any timely Notice of Potential Claim and supporting information

submitted by Contractor. In conducting this review, the City shall have the right to require the Contractor to submit such additional or supporting documents, data and other information as the City may require.

If an agreement can be reached which resolves the Contractor's claim, the parties will execute a Contract Change Order to document the resolution of the claim. If the parties cannot reach agreement with respect to the Contractor's claim, the Contractor shall still be obligated to comply with the claim identification provisions identified in these General Conditions, including but not limited to Section 7-1.04.

It is the intention of this Section 7-1.03 that differences between the parties arising under and by virtue of the Contract be brought to the attention of the Director at the earliest possible time in order that such matters may be settled, if possible, or other appropriate action promptly taken. The Contractor hereby agrees that it shall have no right to additional compensation for any Claim that may be based on any such act, failure to act, event, thing or occurrence for which no timely written Notice of Potential Claim as herein required was filed.

7-1.04 **CLAIMS.** Contractor must submit all Claims, for which it has previously submitted a Notice of Potential Claim, prior to Acceptance of the Work. Each such Claim must be sent to the City by registered mail or certified mail with return receipt requested and must contain reasonable documentation to support the Claim.

Upon receipt of a Claim, the City shall conduct a reasonable review of the Claim and, within a period not to exceed forty-five (45) Days, or such further time as mutually agreed upon or necessary pursuant to Public Contract Code Section 9204, the City shall provide the Contractor a written statement identifying what portion of the Claim is disputed and what portion is undisputed. If the City does not respond to a Claim from the Contractor within the time

specified herein, such Claim shall be deemed rejected in its entirety.

Any payment due on an undisputed portion of the Claim shall be processed and made within sixty (60) Days after the City issues its written statement.

If the Contractor disputes the City's written response, or if the City does not respond within the time specified herein, the Contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the City shall schedule a meet and confer conference within thirty (30) Days for settlement of the dispute.

Within ten (10) business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the City shall provide the Contractor a written statement identifying the portion of the Claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the Claim shall be processed and made within sixty (60) Days after the City issues its written statement. Any disputed portion of the Claim, as identified by the Contractor in writing, shall be submitted to nonbinding mediation, with the City and the Contractor sharing the associated costs equally. The City and the Contractor shall mutually agree to a mediator within ten (10) business days after the disputed portion of the Claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the Claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the Claim remaining in dispute shall be resolved in accordance with Section 7-1.05 below.

7-1.05 **DISPUTE RESOLUTION PROCEDURE.** All Claims not resolved

pursuant to Section 7-1.04, shall be resolved pursuant to Public Contract Code Section 10240, et seq.

7-1.06 **STOP PAYMENT NOTICES.** The City, by and through the Department or other appropriate office or officers, may at its option and at any time retain out of any amounts due the Contractor, sums sufficient to cover claims, filed pursuant to Civil Code Section 9350, et seq., including an amount to provide for the reasonable cost of any litigation thereunder.

7-1.07 **PROGRESS PAYMENTS.** Within fifteen (15) Days after the effective date in the Notice to Proceed, but in any event prior to Contractor's first Application for Payment, the Contractor shall submit to the City a detailed Schedule of Values.

Upon its approval, the Schedule of Values will form a basis for determining the compensation payable to the Contractor based on its actual progress of Work with respect to each Lump Sum bid item. The City, prior to any progress payment being made, must approve the Schedule of Values.

At the Director's discretion the approved Schedule of Values may be used as the basis for calculating the adjustment in compensation for a lump sum bid item due to changes ordered by the Director. When an ordered change increases or decreases the quantities shown in an approved Schedule of Values, at the Director's discretion, the adjustment in compensation may be determined in the same manner specified for increases and decreases in the quantity of a bid item of work in accordance with Section 3-1.05(B), "Contract Price Adjustment," of these General Conditions.

The Contractor once in each month shall submit an Application for Payment, for approval by the Director. Contractor's Applications shall be based on the Schedule of Values submitted to the City. These applications shall be supported by: (1) documentation requested by the City to

substantiate the payment request; (2) statutory releases from Contractor and all Subcontractors and suppliers pursuant to Civil Code Sections 8132 and 8138; and (3) certified payroll records for the period for which payment is requested. Specifically, the Contractor will submit conditional waivers upon progress payment executed by all contractors and suppliers that will be receiving sums sought in the instant payment request and also submit unconditional waivers upon progress payment executed by all contractors and suppliers that have been paid to the date of the payment request. The Contractor shall certify that the Work for which payment is requested has been accomplished. When requested by the City, the Contractor shall submit receipts, invoices and other documentation that the City requires to be furnished for purpose of evaluating the application.

The City will pay the Contractor within thirty (30) Days after its receipt of an undisputed and properly submitted Application for Payment, after deducting all previous payments, retention, and other sums as described in the Contract Documents. Within seven (7) Days of its receipt of the Contractor's Application for Payment, the City will determine whether it complies with the provisions of the Contract Documents. As appropriate, the City will return the application to the Contractor accompanied by a document prepared by the City setting forth the reasons for the rejection. Thereafter, the Contractor shall correct and resubmit the Application for Payment. Progress payments may be withheld for Work that is not performed in accordance with the Contract Documents.

The City may deduct the following from each progress payment:

1. An amount equal to one hundred and twenty-five percent (125%) of the amount claimed under any stop payment notice or other lien filed against the Contractor, which includes an amount to provide for the reasonable cost of any litigation

thereunder.

2. Any Liquidated Damages or Assessments that have accrued as of the date of the Application for Payment.
3. Any sums expended by the City in performing any of the Contractor's obligations under the Agreement that the Contractor has failed to perform.
4. Any other sums that the City is entitled to recover from the Contractor under the terms of the Contract including damages to the City's property.
5. The failure of the City to deduct any of the above identified sums from a progress payment shall not constitute a waiver of the City's right to such sums.

No such estimate or payment shall be construed to be an acceptance of any defective Work or improper materials.

Under no circumstances will the City make payment to unlicensed Contractors. As a condition of payment, the Contractor is required to maintain the applicable Contractor's license as identified in the Notice to Contractors for the duration of the Work.

7-1.08 **PAYMENT FOR MATERIALS AND EQUIPMENT ON HAND.**

Partial payments may be made to the extent of seventy-five percent (75%) of the cost of materials and equipment plus delivery to be incorporated in the Work, provided that such materials and equipment meet the requirements of the Contract Documents and are delivered to acceptable sites on the plant site or at other sites in the vicinity that are acceptable to the City and only with the prior written approval by the City. Such delivered costs of stored or stockpiled materials and equipment may be included in the next progress payment after the following conditions are met:

A. Equipment and materials will only be eligible if given conditional or final

Acceptance by the Director and are in apparent compliance with favorably reviewed Submittals.

B. Only equipment or materials which have received favorable review of Shop Drawings will qualify.

C. The material or equipment has been stored or stockpiled adequately protected against damage in a manner acceptable to the Director at an approved site.

D. The Contractor has furnished the Director with acceptable evidence of the quantity and the quality of such stored or stockpiled materials or equipment with identification of where they will be incorporated into the project with Specification reference.

E. The Contractor has furnished the Director with satisfactory evidence that the material or equipment and transportation costs have been paid.

F. The Contractor has furnished the City legal title (free of liens or encumbrances of any kind) and lien releases to the material or equipment so stored or stockpiled.

G. The Contractor has furnished the City evidence that the material or equipment so stored or stockpiled is insured against loss by damage to or disappearance of such materials at any time prior to use in the Work.

It is understood and agreed that the transfer of title and the City payment for such stored or stockpiled materials or equipment shall in no way relieve the Contractor of its responsibility for furnishing and placing such materials or equipment in accordance with the requirements of the Contract Documents.

In no case will the amount of progress payments for materials or equipment on hand exceed the Contract Price for such materials or equipment or the Contract Price for the Contract item in which the material is intended to be used.

No partial payment will be made for stored or stockpiled living or perishable plant

materials.

The Contractor shall bear all costs associated with the progress payment of stored or stockpiled materials or equipment in accordance with the provisions of this Section.

7-1.09 **RETENTION ON PROGRESS PAYMENTS.** From each progress payment estimate, five percent (5%) will be deducted and held in retention by the City. The remainder, less any deductions described in Section 7-1.07, "Progress Payments," of these General Conditions, will be paid to the Contractor as progress payments.

Pursuant to Public Contract Code Section 22300, the successful Bidder may submit Securities in lieu of retention payments by the City. Upon the Contractor's request, the City will make payment of funds withheld from progress payments, pursuant to the requirements of California Public Contract Code Section 22300, if the Contractor deposits in escrow with the City or with a bank acceptable to the City, securities eligible for investment under California Government Code Section 16430, bank or savings and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by the Contractor and the City, upon the following conditions:

1. The Contractor shall bear the expenses of the City and the escrow agent in connection with the escrow deposit made.
2. Securities or certificates of deposit to be placed in escrow shall be of a value at least equivalent to the amounts of retention to be paid to the Contractor pursuant to this section.
3. Contractor shall enter into an escrow agreement satisfactory to the City, which agreement shall be substantially similar to the form provided in California Public Contract Code section 22300.

4. The Contractor shall obtain the written consent of the surety to such agreement.

7-1.10 **FINAL PAYMENT.** Final payment will be made only after Contractor has achieved Final Completion of the Work pursuant to the provisions of Section 7-1.01, "Acceptance," of these General Conditions. Before final payment can be made, the Contractor shall have furnished the City with the following:

1. All Record Documents, catalogues, instruction sheets and information as required by the Contract Documents.
2. Conditional Waivers and Releases Upon Final Payment executed by Contractor and all Subcontractors and Suppliers, as provided by Civil Code Section 8136. Unconditional Waivers and Releases Upon Final Payment, as provided in Civil Code Section 8138, executed by Contractor and all Subcontractors and Suppliers, must be provided for all Subcontractors and Suppliers that have been paid in full.

Within thirty (30) Days of the date of the City's Acceptance of the Work, the Contractor shall prepare and submit a Final Invoice, showing the proposed total amount due the Contractor, segregated by Bid item quantities, Change Order Work, and other basis for payments; deductions made or to be made for prior payment; and amounts previously retained. Prior invoices and payments shall be subject to correction in the proposed Invoice for Final Payment. Payments to the Contractor will be made only for actual quantities of the Contract items of work constructed in accordance with the Contract Documents.

The City will review the Contractor's proposed Final Invoice and necessary changes or corrections will be forwarded to the Contractor. Within ten (10) Days thereafter, the Contractor

shall submit a revised proposed Final Invoice incorporating changes or corrections made by the City together with any new claims resulting therefrom. Upon approval by the City, the corrected proposed Final Invoice will become the approval Final Invoice.

If agreements are reached on all questions regarding the Final Invoice, the City will pay the entire sum found due on the approved application. However, the City will withhold sums sufficient to pay all unsettled claims for which stop payment notices have been filed pursuant to Section 9350, et seq. of the California Civil Code, together with the reasonable cost of any litigation thereunder.

Final payment will be made within thirty (30) Days after receipt of an approved Final Invoice and other required Submittals referenced above or within sixty (60) Days after Acceptance of the work by the City, whichever is later, provided, however, that if an approved Final Invoice has not been submitted within sixty (60) Days after Acceptance of the Work by the City, the City may elect to make payment of sums not in dispute without prejudice to the right of either the City or the Contractor in connection with such disputed sums. Notwithstanding the foregoing, if a Notice of Completion is recorded, final payment shall not be made prior to the expiration of the thirty-five (35) calendar day lien period. The start of this lien period is the date the Placer County Recorder's Office records the Notice of Completion.

The City may withhold from the Final Payment an amount not to exceed one hundred fifty percent (150%) of any amount in dispute between the City and the Contractor.

The making of Final Payment shall not operate to release the Contractor or its sureties from obligations arising under the Contract, the Contract bonds and warranties as herein provided. Specifically, the making of final payment shall not constitute a waiver and release of claims by the City arising from:

1. Unsettled or future liens;

2. Failure of the Work to comply with the requirements of the Contract Documents;

3. The terms of any warranties required by or contained in the Contract Documents;

4. The right to any insurance proceeds or the right to make any insurance or bond claims;

5. Any claims with respect to Contractor's obligations of indemnity with respect to claims asserted by third parties; or

6. Any latent deficiencies with the Work or Contractor's fraud.

7-1.11 **CLERICAL ERRORS.** Notwithstanding the provisions of Section 7-1.10, "Final Payment," of these General Conditions, for a period of three (3) years after Acceptance of the Work, all estimates and payments made pursuant to said Section 7-1.10, are subject to correction for clerical errors in the calculations involved in the determination of quantities and payments. The Contractor and the City agree to pay to the other any sum due under the provisions of this Section 7-1.11, provided, however, if the total sum to be paid is less than $100, no such payment shall be made.

7-1.12 **WARRANTY.** Notwithstanding inspections and Acceptance by the City of Work furnished under the Contract Documents, the Contractor hereby unconditionally guarantees that all materials and equipment furnished will be of good quality and new, that the Work will be free from defects in workmanship and materials and that the Work will conform to the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective.

This warranty by the Contractor is in addition to any warranties or guarantees required elsewhere in the Contract Documents. This warranty shall be in effect notwithstanding any disclaimers, or limiting or conditional terms contained in such separate warranties furnished by manufacturers or suppliers.

The Contractor hereby agrees to repair or replace any and all Work, together with any other adjacent Work which may be displaced in so doing, that may prove to be not in accordance with the requirements of the Contract or that may be defective in its workmanship or material during the greater of a period of one (1) year after Acceptance of the Work by the City or the period specified in the Special Conditions, without any expense whatsoever to the City, ordinary wear and tear and unusual abuse or neglect excepted.

The Contractor further agrees, that within ten (10) Days after being notified in writing by the Department of any Work not in accordance with the requirements of the Contract Documents or of any defects in the Work, the Contractor will commence and prosecute with due diligence all Work necessary to fulfill the terms of this warranty, and to complete such Work within a reasonable period of time. In the event Contractor fails to comply, it does hereby authorize the Department to proceed to have such Work done at the Contractor's expense and the Contractor will honor and pay the cost and charges therefore upon demand. The Department shall be entitled to all costs and expenses, including reasonable attorneys' fees, necessarily incurred upon the Contractor's refusal to honor and pay the above costs and charges.

All warranties set forth in the Contract Documents shall be deemed cumulative and not alternative or exclusive. Nothing contained in this section shall be construed to establish a period of limitation with respect to any other obligation, which Contractor has under the Contract Documents or under any separate warranty or guaranty required thereby. The establishment of a

specific warranty period relates only to the specific obligation of Contractor to correct defective Work, and it has no relationship to the time within which its obligation to comply with the Contract Documents or applicable provision of law may be sought to be enforced, nor to the time within which proceedings may be commenced to establish Contractor's liability with respect to its obligations other than specifically to correct the Work. Without limiting the foregoing, it is understood and agreed that Contractor shall remain responsible for latent defects with its work, regardless of the expiration of any warranty period set forth in the Contract Documents.

7-1.13 **WARRANTY OF TITLE.** No material, supplies, or equipment for the Work under this Contract shall be purchased subject to any chattel mortgage, security agreement, or under a conditional sale or other agreement by which an interest therein or any part thereof is retained by the seller or supplier. The Contractor warrants good title to all material, supplies, and equipment Installed or incorporated in the Work and agrees upon completion of all Work to deliver the Premises, together with all improvements and appurtenances constructed or placed thereon by it, to the City free from any claim, liens, security interest, or charges, and further agrees that neither the Contractor nor any person, firm, or corporation furnishing any materials or labor for any Work covered by this Contract shall have any right to a lien upon the Premises or any improvement or appurtenances thereon. Provided, that this shall not preclude the Contractor from Installing metering devices and other equipment of utility companies, the title of which is commonly retained by the utility company. In the event of the Installation of any such metering device or equipment, the Contractor shall advise the City as to the legal owner thereof. Nothing contained in this paragraph, however, shall defeat or impair the right of such persons furnishing materials or labor under any bond given by the Contractor for their protection or any rights under any law permitting such persons to look to funds due the Contractor in the hands of the City.

The provisions of this paragraph shall be inserted in all subcontracts and material Contracts, and notice of its provisions shall be given to all persons furnishing materials for the Work when no formal Contract is entered into for such materials.

[END OF GENERAL CONDITIONS]

SUPPLEMENTAL CONDITIONS

Project: Electric Landscape Improvements- Fiddyment Substation

Scope of Supplemental Conditions

1. The Work shall be performed in accordance with the General Conditions and Department Standards, except as the General Conditions may be modified by the following additional City Standards, incorporated herein by this reference, if so indicated.

	COMMUNITY DESIGN GUIDELINES 311 Vernon Street, Roseville, CA 95678
	SPECIFICATIONS FOR COMMERCIAL CONSTRUCTION (ELECTRIC) 2090 Hilltop Circle, Roseville, CA 95747
X	PARKS CONSTRUCTION STANDARDS 316 Vernon Street, Suite 400, Roseville, CA 95678
X	DESIGN AND CONSTRUCTION STANDARDS 311 Vernon Street, Roseville, CA 95678
	OTHER

Above documents are available at: www.roseville.ca.us.

2. Numbering in these Supplemental Conditions conforms to that in the General Conditions. The existence of a section in these Supplemental Conditions means that the corresponding section in the General Conditions is modified in some respect. Unless otherwise specified, the modified General Condition is deleted entirely and the provisions of these Supplemental Conditions are substituted.

SECTION 1. DEFINITIONS AND TERMS

1-1.24 **DEPARTMENT.** Section 1-1.24 of the General Conditions is amended to include the following:

The Department for Contract Administration is the Electric Department of the City of Roseville.

SECTION 2. CONTROL AND SCOPE OF THE WORK

2-1.08 **SUBMITTALS.** Section 2-1.08 of the General Conditions is amended to include the following:

The time allowed for review of each submittal is 15 Days after receipt of the submittal by the Director.

SECTION 3. CHANGES IN THE WORK

There are no amendments to the General Conditions.

SECTION 4. CONTROL OF MATERIALS

There are no amendments to the General Conditions.

SECTION 5. LEGAL RELATIONS AND RESPONSIBILITY

5-1.14 **AIR POLLUTION CONTROL AND ASBESTOS.** Section 5-1.14 of the General Conditions is amended to include the following:

To the best of the City's knowledge, asbestos is not present in the vicinity of the Project. Additional information shall be made available to Contractor upon request.

SECTION 6. PROSECUTION AND PROGRESS

6-1.04 **PROGRESS SCHEDULE.** Section 6-1.04F of the General Conditions is amended to include the following:

Progress schedules showing project completion dates more than 0 Days earlier than specified in Section 6-1.07 shall be rejected.

6-1.07 **TIME OF COMPLETION.** Section 6-1.07 of the General Conditions is amended to include the following:

The Contractor shall begin Work within 10 business days after receiving a Notice to Proceed and shall diligently prosecute the Work to completion. The Work shall be completed within 50 business days of the Notice to Proceed.

If landscaping plants require an establishment period, that period will be 90 calendar days. Start of the establishment should be as outlined in the Specifications.

6-1.08 **LIQUIDATED DAMAGES.** Section 6-1.08 of the General Conditions is amended to include the following:

The amount of Liquidated Damages is the sum of $ 800 per Day.

SECTION 7: ACCEPTANCE AND PAYMENT

There are no amendments to the General Conditions.

[END OF SUPPLEMENTAL CONDITIONS]

SPECIFICATIONS

Project: Electric Landscape Improvements- Fiddyment Substation

SPEC

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A: Irrigation Schedules — See Plans
B: Soils Fertility Report — See Plans

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SECTION 00 31 46
PERMITS

PART 1 - GENERAL

1.01 General Requirements

A. The requirements set forth in the General Conditions shall be in addition to the standards provided herein.

B. The requirements set forth in the Supplemental Conditions shall be in addition to the standards provided herein.

C. The intent of this Section is to furnish bidders with the known list of required permits for the Work under the Contract Documents. Bidders should note that the list is not necessarily complete and that additional requirements may exist or arise.

1.02 Permits

A. The Contractor shall obtain copies of the following permits from the Project Manager. Copies of these shall be obtained prior to start of work and shall be kept on the jobsite.

1. State Water Resources Control Board General Permit for Discharges of Storm Water Associated with Construction Activity:

   The City has prepared and submitted the SWPPP and Notice of Intent (NOI) to the State Water Resources Control Board. Prior to starting construction, Contractor shall obtain coverage under and comply with the General Permit for Discharges of Storm Water Associated with Construction Activity (Construction General Permit Order 2009-0009-DWQ). The City will prepare and submit the NOT when permanent BMP's have been installed.

2. City of Roseville Department of Development Services, Encroachment Permit for all Work related to this project.
3. City of Roseville Department of Development Services, Grading Permit for all Work related to this project.
4. City of Roseville Department of Development Services, Building Permit for all structural items associated with this project, including, but not limited to, lighting, shade structures, drinking fountain (plumbing code), and miscellaneous electrical.

B. Contractor shall comply with the conditions of these permits, and will be solely responsible for all costs associated with meeting permit conditions unless specifically specified otherwise in these Contract Documents.
C. A trench/excavation permit must be on file with the City. Submit a copy of the notification letter to CAL OSHA, which outlines the project, and contracted scope of work.

PART 2 - PRODUCTS

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PART 3 - EXECUTION

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END OF SECTION

SECTION 01 10 00
SUMMARY OF WORK

PART 1 - GENERAL

1.01 General

A. The requirements set forth in the General Conditions shall be in addition to the standards provided herein.

B. The requirements set forth in the Special Conditions shall be in addition to the standards provided herein.

1.02 Project Description

A. Project Name and address:

Fiddyment Substation
6821 Fiddyment Road
Roseville, CA 95747

B. Project description/scope of work:

The scope of this project includes the installation of new landscaping, irrigation and lighting features in the area in front of Fiddyment Substation.

C. The Contractor, prior to submission of his bid, shall visit the site and become familiar with the physical site conditions, the plans and specifications. All existing site conditions, apparent in a detailed, on-site inspection, shall be a part of the project. Submission of a bid shall represent the Contractor's acknowledgment of the existing site conditions and its effect on the implementation of the contract documents.

1.03 Engineering

A. Field Engineering, as a part of this contract, shall include:

1. Layout of the work and establishment of lines and grades.
2. Said work to be performed by a California Registered Civil Engineer or a California licensed Land Surveyor.
3. When discrepancies between the drawings and actual site conditions are discovered, notify the Inspector for instruction on how to proceed.
4. All work shall:
   a) Establish indicated layout in relation to the property survey and existing reference points.

b) Establish and preserve permanent reference points during the course of construction.
c) Set locations and elevations of all site elements as required for proper completion of the work.

1.04 Permits, Fees and Notices

A. The Contractor and/or his assigned Subcontractors shall obtain any and all required permits (beyond those provided in the Appendix) from all governing authorities, including other City Departments, prior to start of construction.

1.05 Construction Plans

A. Any discrepancies or omissions found in the Contract Documents shall be reported to the City's project manager immediately. The City's project manager will clarify discrepancies or omissions, in writing, within a reasonable time.
B. In resolving inconsistencies among two or more sections of the Contract Documents, precedence shall be given in the following order:
   1. Notice to Contractors
   2. Special Provisions
   3. City of Roseville Parks Construction Standards
   4. City of Roseville Design and Construction Standards
   5. Drawings

   Addenda shall take precedence over all sections referenced therein. Figure dimensions on Drawings shall take precedence over scale dimensions. Detailed Drawings shall take precedence over general Drawings.

1.06 Definitions

A. The term "accepted" where used within, shall mean accepted in writing by the City of Roseville's Project Manager.
B. The term "Inspector", where noted, shall mean the project representative, appointed by the City of Roseville, who will oversee the project on a day-to-day basis.
C. The term "Project Manager", where noted, shall mean the project representative appointed by the Parks Department.
D. The term "Consultant", where noted, shall mean the prime Consultant listed on the cover sheet of these Specifications.
E. The term "accepted equal", where used herein, shall mean the equal in the opinion of the Project Manager, in consultation with the Consultant, when necessary, and as accepted in writing by the Project Manager.
F. The term "Project Owner", where used herein, shall mean the landowner or developer.
G. The term "provide", where used herein, shall mean furnish and install complete.

H. The term “as selected”, where used herein, shall mean as selected by the Consultant and as accepted by the Project Manager.
I. The term “substantially complete”, where used herein, shall mean the state of which the project can be used in the manner of which it is intended with the exception of minor items as determined by the Project Manager.
J. See Section 1 of the General Conditions for additional definitions and terms.

1.07 Standards

A. Numerous standards are referenced in these contract documents. The referenced standards shall be the current edition as of the date of these contract documents. Also, see Section 4 - 1.02 of the General Conditions.
B. The codes adopted by the City, County, State and federal agencies shall govern minimum requirements for this project. Where codes conflict with these Specifications, the more stringent shall apply, and such conflicts shall be brought to the attention of the Project Manager. Caltrans Standards shall be applied where specifically referenced. In the absence of specific reference requirements in the contract documents, the applicable codes shall govern.
C. In addition to the standards noted in individual sections of these Specifications, standards of the following organizations shall be noted by initials only.
    1. ANSI: American National Standards Institute.
    2. ASTM: American Society for Testing and Materials.

1.08 Submittals

A. All submittals shall be submitted at one time within ten (10) working days from issuance of Notice to Proceed. The review time for submittals shall be as noted in Section 2 - 1.08 of the Special Conditions. Items returned for re- submittal shall be returned to the City within two weeks
B. The Contractor shall include a cover sheet indicating the following (A sample is provided in Section 5: Forms):
    1. Drawing sheet or specification section reference (by section, paragraph and sub-paragraph numbers);
    2. Item description;
    3. Indication whether this item is “as specified” or “proposed substitution” and
    4. A space for itemized response summary, e.g. “reviewed” or “resubmit”.
C. Contractor shall submit a minimum of two copies/samples of each submittal. It shall be the Contractor’s responsibility to ensure that the summary sheet and the appropriate number of copies are included in the submittal package. Incomplete submittal packages (i.e., the lack of a summary sheet or lack of the appropriate number of copies) will not be reviewed.
D. Proposed substitution requests must include a comparison between the originally specified item and the proposed substitute. The burden of proof of

compliance for proposed substitutions with project requirements rests with the Contractor. Coordination of the installation of accepted substitutions, including incidental changes/modifications to accommodate proposed products shall be at no additional cost to the Owner.

E. Where required in specified Section of these Specifications, submittals shall include proof of order of site furnishings, play equipment or other materials within two weeks (ten working days) from issuance of Notice to Proceed. Submittals of orders shall be made at one time. Exceptions will be considered, with justification.

1.09 Tests

A. In addition to Section 4 - 1.03 of the General Conditions, testing and inspections may be performed by a private testing laboratory. The testing laboratory, provided by the City, shall be under the direction of a California registered civil engineer. All work shall conform to requirements set forth by ASTM B329, and shall be acceptable to the City.

B. Copies of the laboratory reports/results of each test or inspection shall be provided to the Project Manager, Inspector and Contractor.

1.10 Temporary Facilities

A. Sanitary provisions shall be the responsibility of the Contractor.

B. Barricades shall be the responsibility of the Contractor and shall be erected as necessary to protect the property, the construction and the public from hazards due to construction.

C. Signs, other than those identified in these Specifications, shall be prohibited. Notices, required by law, shall be posted and maintained.

1.11 Utilities

A. All utility connection fees, meters, and cost of utilities used during the course of construction and establishment are considered a direct cost and are the responsibility of the Contractor until project acceptance.

1.12 Dust/Noise Control Requirements

A. Dust and other air pollution nuisances on or adjacent to the site shall be abated, per Section 2 - 1.07 of the General Conditions. Dirt shall not be allowed to accumulate on streets or sidewalks nor be washed into sewer. The Contractor

shall install silt basin, silt fences or other physical means to prevent winter run-off or dry season flow passing through the site.

B. Noise from construction operations shall be kept to a minimum. Allowable hours of operations shall be from 7 a.m. to 7 p.m. Monday through Friday. Work on weekends and holidays must be approved by the project manager. Work on weekends and holidays shall not begin before 8 a.m. and must be completed by 8 p.m.

1.13 Tree Replacement Schedule

A. Trees damaged or removed without prior approval shall be replaced at an inch per inch basis on-site, except otherwise accepted. New stock shall follow the table provided:

Plant Size	Inch Value
3 Five Gallon Stock	One Inch
1 Fifteen Gallon Stock	One Inch
1 24” Box Stock	Two Inches
1 36” Box Stock	Three Inches

1.14 Inspection of Construction

A. In addition to the routine inspections performed by the City Inspector, portions of work may be inspected by the other city departments. Notify the Project Manager a minimum of 48 hours prior to date of inspection.

B. The Project Manager shall be the main line of communication between the site superintendent and other City department inspectors. Changes in scope of work or standards shall be approved by the project manager.

1.15 Adverse Impacts to Site Conditions Due to Construction

A. Impacts that affect the site conditions to the detriment of the streetscape construction or long term viability of the site shall be mitigated by the contractor prior to acceptance of the project. Such impacts shall include, but are not limited to:

1. Soil compaction in non-structural areas;
2. Diesel or gas fuel leaks/spillage;

3. Buried concrete or other construction debris;
4. Hazardous material contamination;
5. Lime treatment in planting areas;
6. and more.

1.16 Pre-final (Punch List) Review

A. Notify, in writing, to the Project Manager that the work is substantially complete. Substantially complete is defined as “the state of work where it may be used in a suitable and intended manner with exception of minor corrections”. Partial acceptances will not be granted. Items to be reviewed as a part of substantial completion include:
   1. All construction items
   2. Installation of all site furnishings, including lights and signs
   3. Seeding or sodding of all turf areas
   4. All planting, including weeding of planted areas
   5. The irrigation system is fully functioning as designed and as confirmed by the landscape irrigation audit.

B. Upon field confirmation by the Project Manager regarding substantial completion, a pre-final (punch list) walk-through will be conducted within seven (7) calendar days of receipt of notification. A formal punch list will be developed at that time. Performance of the pre-final (punch list) review shall not automatically trigger the start of establishment.
   1. If at any point during this review that it becomes apparent that the Contractor has not properly prepared for the site review, the inspection shall immediately be terminated and re-scheduled at such a time as the site has been readied for a review. Any costs for the re-scheduling of the review shall be the responsibility of the Contractor. Lack of site preparation could delay start of the establishment period.

C. The pre-final (punch list) review shall occur within one (1) business week after the project has been determined as “substantially complete”. Concurrently, the City will make a formal request for all required turn-in items to be submitted to the City. All turn-in items shall be submitted to the City (single point of contact), at one time and only by appointment. Do not drop off the turn-in items at the front counter and without an appointment.

D. Once all turn-in items have been confirmed to be complete and accurate, the establishment period may be considered to begin. The City shall have sole discretion in determining the appropriateness of the commencement of the establishment period and shall notify the developer/contractor in writing of the start and end dates. Portions of the project will not be accepted for establishment prior to the substantial completion of the entire project.

1.17 Establishment Period

A. The duration of the establishment period shall be:
   1. For seeded turf in parks: Ninety (90) calendar days, minimum, and until the Notice of Completion (NOC) for City-built parks has been approved by the City Council, or the deed transferring property ownership, has been recorded at the County for Developer-built parks.
   2. For sodded turf in parks: Forty-five (45) calendar days commencing between March 1st and October 31st and sixty (60) calendar days commencing between November 1st and February 28th, and until the Notice of Completion (NOC) for City-built parks has been approved by the City Council, or the deed transferring property ownership, has been recorded at the County for Developer-built parks.
   3. For streetscapes: Thirty (30) calendar days, minimum, and until final acceptance of all related street improvements subject to approval of a Certificate of Completion by the City Council.

B. Active maintenance is required throughout the entire establishment period. Active maintenance is defined as:
   1. All areas within the project site shall be protected against damage including vandalism, erosion, trespass, rodents and other acts. Immediately repair all damaged areas.
   2. All walkways and paved areas shall be kept clean and all debris within planting and turf areas shall be immediately removed.
   3. Automatic irrigation controller shall be fully utilized and irrigation system monitored and adjusted as described in Section 32 84 00 4.03.
   4. All plant and turf maintenance as described in Section 32 90 00 3.11

C. Prior to the start of the final thirty (30) days of establishment:
   1. All punch list items shall be completed.
   2. All certifications and testing shall be completed.
   3. All plantings and turf shall be thriving and in a healthy condition.
   4. The lack of active maintenance prior to the final thirty (30) days may constitute a delay in the start of the final thirty (30) days of the establishment period.

1.18 Final Review

A. One (1) week prior to the end of the establishment period, a final on-site review shall be conducted to review project readiness for final turn-over. All punch list items must be satisfactorily addressed prior to the final review.

B. The project shall be prepared and cleaned per Section 2 - 1.12 of the General Conditions; the turf shall be mowed; and the irrigation heads shall be adjusted appropriately one day prior to the scheduled final review.

C. Acceptance of the project shall be considered “field accepted” and a recommendation will be forwarded to the City Council for “final acceptance” per Section 7 - 1.01 of the General Conditions.
D. An unaccepted project shall extend the establishment period until such time as the unaccepted portions of the project have been reviewed and field accepted by the Inspector and Project Manager.
E. Turn over for City maintenance shall occur only after:
    1. The specified duration of the establishment period has been successfully completed.
    2. If required, the deed transferring property ownership, has been recorded at the County.
    3. A Certificate of Compliance (COC) for streetscapes or Notice of Completion (NOC) for city built parks has been approved by the City Council.
F. Contractor shall provide a written guarantee covering all improvements associated with this project. See 1.19 – Warrantees and Guarantees.

1.19 Record Documents

A. Record documents or as-built plans shall be maintained on-site and updated routinely as specified in Section 2 - 1.13 of the General Conditions. Record documents shall include **all items under the contracted scope of work**.
B. Record documents shall be submitted:
    1. one full size set of final as-built drawings (verified/initialed by the Parks Inspector during the establishment period)
    2. one set of 11 x 17 reductions of the complete as-built package; and
    3. two sets 11 x 17 laminated reductions of the irrigation plan illustrating with colors the individual controller stations; and
    4. one USB containing PDF scanned images (in color) of the verified as-built drawings.
    5. For City of Roseville CIP projects, SWPP binder.

1.20 Warranties and Guarantees

A. Warranties are required under various Sections of these Specifications. Prior to final acceptance, the Contractor shall assemble all warranties into a single, bound or stapled package. All warrantees shall be clearly labeled and the number of years highlighted. Also, see Sections 7 - 1.10 and 7 - 1.11 of the General Conditions.
    1. Warranties for equipment shall be submitted in the manufacturer’s standard form and shall be countersigned by the subcontractor or supplier and the Contractor.

2. All other warranties shall be provided in the following format, written on subcontractor's or supplier's letterhead, signed by the subcontractor or supplier and countersigned by the Contractor:

WARRANTY FOR _____ YEARS

"We hereby warrant that the ***product*** which we have installed at ***project name*** has been done in accordance with the contract documents, and that the work, as installed will fulfill the warranty requirements included in the Specifications.

We agree to repair or replace any or all of our work, together with any other adjacent work which may be displaced by so doing, that may prove to be defective in its workmanship or material within the warranty period stated above commencing from the date of final acceptance of the above named project by the City of Roseville's City Council, without additional expense to the City, ordinary wear and tear and unusual abuse or neglect excepted.

In the event of failure to comply with the above conditions within thirty (30) days of notification by the City, we collectively or separately do hereby authorize the City to proceed with the repairs or replacement of such defects at our expense. Payment of said costs and charges will be forwarded to the City upon demand.

Signed: _____ _____
Subcontractor or Supplier Date

Countersigned: _____ _____
Contractor Date

B. Guarantees shall be a minimum of one (1) year for all plant material, including trees and shrubs. The guarantee shall state that plant materials (trees & shrubs) to be free of all defects or disease and all plants are in a healthy and thriving condition at the completion of the contract. Deciduous plant material shall be warranted beyond the time of contract completion until such time as growth becomes evident.

PART 2 - PRODUCTS

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PART 3 - EXECUTION

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END OF SECTION

SECTION 01 57 23
STORM WATER POLLUTION CONTROL

PART 1 - GENERAL

1.01 General

A. The requirements set forth in the General Conditions shall be in addition to the standards provided herein.
B. The requirements set forth in the Special Conditions shall be in addition to the standards provided herein.

1.02 References

A. State Water Resources Control Board Order No. 2009-0009-DWQ National Pollutant Discharge Elimination System General Permit No. CAS0000002, for Storm Water Discharges Associated with Construction and Land Disturbance Activities.
B. CASQA California Stormwater BMP Handbook – Construction, November 2009

1.03 Definitions

A. NOI: Notice of Intent
B. NOT: Notice of Termination
C. QSP: Qualified SWPPP Practitioner
D. QSD: Qualified SWPPP Developer
E. SWPPP: Storm Water Pollution Prevention Plan
F. SWRCB: State Water Resources Control Board
G. NPDES: National Pollutant Discharge Elimination System General
H. WDID: Waste Discharger Identification number
I. BMP: Best Management Practices

PART 2 - PRODUCTS

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PART 3 - EXECUTION

3.01 SWPPP

A. Comply with State Water Resources Control Board Order No. 2009-0009-DWQ National Pollutant Discharge Elimination System General Permit No.

CAS0000002, for Storm Water Discharges Associated with Construction and Land Disturbance Activities.

B. A SWPPP has been developed for this project. The SWPPP is a dynamic document and will change as conditions (weather or construction phases) warrant.
C. Implementation of the SWPPP is the responsibility of the Contractor and a part of this project. Costs associated with implementation and maintenance of the BMPs per the SWPPP shall be included in the lump sum base bid.
D. Major changes to the SWPPP shall be reviewed by the City's QSD prior to implementation.
E. The City's QSP will perform weekly inspections of the jobsite. Implementation of and minor changes to the SWPPP as directed by the City's QSP shall be incidental to the Work. Contractor shall start all inspection corrective actions within 72 hours of observation, and complete as soon as possible.
F. All BMPs installed will be inspected by the City's QSD/QSP for compliance with the SWPPP and BMP Fact Sheets. BMPs that are not in compliance shall be brought into compliance by the Contractor at no cost to the City.
G. Keep one copy of the SWPPP and amendments at the project site.
H. The SWPPP shall be readily available throughout the course of construction and until the NOT has been accepted by SWRCB. The SWPPP shall be made available upon request by a representative of the Regional Water Quality Control Board, State Water Resources Control Board, United States Environmental Protection Agency, or City' storm water staff.
I. At the end of the establishment period, the Contractor shall submit the project site copy of the SWPPP including copies of all inspections, Rain Event Action Plans (REAPs), reports, and sampling and analysis results to the City's Project Manager.

3.02 Schedule

A. Contractor shall develop a Water Pollution Control Schedule that describes the timing of grading or other work activities that could affect water pollution. The schedule shall be updated by the Contractor to reflect changes in the Contractor's operations that would affect the necessary implementation of water pollution control practices. The typical sequence of work shall be adjusted by the Contractor based on weather conditions and forecasted rain events. The schedule is considered an appropriate and applicable BMP.

3.03 Penalties and fines

A. Contractor is responsible for all penalties and fines assessed to or levied on the project related to the implementation of the SWPPP.

B. In an effort to maintain compliance with the General Permit, the Contractor may be asked to make changes to the BMPs. If the Contractor is unable to perform these services in a timely manner the City reserves the right to address any areas of concern and deduct the cost from the contract.

3.04 Inlet Filters

A. Drain inlet filters may be employed in lieu of straw bales. Horizontal mesh filters attached to the top of or below the drain inlet grate shall not be allowed. Only high flow volume, bag type filters or others as accepted by the Public Works Inspector shall be used.

3.05 Silt Fence and Straw Wattles

A. Silt fences and straw wattles may be employed in lieu of, and are preferred to straw bales.

3.06 Slope Protection/Erosion Control

A. All slopes greater than 10:1 shall be covered with broadcast straw at a rate of 50 bales or 4,000 pounds per acre. Slopes exceeding 4:1 shall have straw pressed in place or a tackifier shall be applied.
B. All slopes along building frontages (from the building setback line to the City right-of-way) exceeding 4:1 shall have erosion netting installed (jute or as accepted by the Public Works Inspector).
C. Slopes steeper than 4:1 and adjacent to City of Roseville right-of-way, flood plains, natural drainages, park land or designated open space shall require broadcast seeding and shall be covered with straw matting.
D. Hydroseed shall not be used on slopes where broadcast straw, erosion netting or straw matting are specified above, except as an additional measure to them. Within a site, protection of bare and/or disturbed slopes which are isolated from areas requiring erosion protection shall be addressed on the plans. Hydroseeding may be an acceptable alternative in isolated expanses, regardless of slope.
E. From the back of City sidewalk to 25 feet back, all disturbed, bare slopes of less than 10:1 shall be hydroseeded. Broadcast straw as specified above for 10:1 or steeper slopes is an acceptable option.

3.07 Straw Bales

A. Straw bales shall be stockpiled on the site at a rate of 1.5 bales per acre by October 1. Measures shall be provided to keep straw dry.

3.08 Silt Controlling Devices

A. Use of alternative silt controlling devices will be review and accepted at the discretion of the City's QSD.

3.09 Cleaning

A. Thoroughly clean all areas where work has occurred. Remove from the site excess material, debris and rubbish.

B. Take all precautions to protect completed work. Immediately repair or replace all damaged areas due to tire ruts, erosion, compaction failure, etc. Keep all erosion control measures intact.

END OF SECTION

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SECTION 31 20 00
EARTHWORK

PART 1 - GENERAL

1.01 General Requirements

A. The requirements set forth in the General Conditions shall be in addition to the standards provided herein.
B. The requirements set forth in the Supplemental Conditions shall be in addition to the standards provided herein.
C. The standards set forth in the Caltrans Standard Specifications, latest edition, shall be in addition to the standards provided herein.
D. The requirements set forth by CAL OSHA shall be in addition to the standards provided herein.

1.02 Description

A. Provide all labor, operations and materials necessary for earthwork, including, but not limited to, staking and surveying, grading; excavating; installation of facilities necessary to perform excavation and subsequent removal of such facilities upon completion of work; subgrade preparation; backfilling; and other incidental items necessary for a complete project.
B. This project is a balanced cut and fill project
C. The intent of the grading plan is to provide positive drainage and to maintain slopes on walkways as required by the Americans with Disabilities Act and California Title 24 throughout the project site. The Project Manager shall be notified immediately of any discrepancies between the Plans and actual field conditions and/or conflicts between the design and code requirements.

1.03 Related Work

A. Section 31 10 00: Clearing and Grubbing
B. Section 33 00 00: Utilities
C. Section 32 84 00: Irrigation System
D. Section 32 90 00: Planting
E. Section 26 00 00: Site Electrical
F. Section 01 57 23 Storm Water Pollution Control

1.04 Quality Assurance

A. All work shall conform to local codes and regulations, including standards set forth in the Standard Specifications of the State of California, Business and

Transportation Agency, Department of Transportation (Caltrans), Chapter 70 of the Uniform Building Code and ASTM.

B. Relative compaction shall be the in-place dry density of soil denoted as a percentage of the maximum dry density of the same material. This shall be as determined by ASTM 1557. The optimum moisture is measured by the water content which corresponds to the maximum dry density.
C. Upon discovery of unforeseen subsurface site conditions, the Contractor shall notify the Inspector immediately.
D. Upon discovery of hazardous materials, cease all activity and immediately contact the Fire Department.

1.05 Protection

A. Provide and install all supports, shoring, bracing, underpinning, sheet piling and other methods for the sides of excavations necessary for ensuring safe working conditions for the workmen and to protect adjacent improvements to remain.
B. Provide any and all protection measures necessary to ensure the protection of the workmen, the general public, including children and the project site. These protection requirements remain the Contractor's sole responsibility throughout the duration of the project, including non-working hours.
C. Do not obstruct vehicular, bicycle or pedestrian thoroughfares, unless previously accepted by the City. Provide safe and adequate detours around the construction as required by City and State regulations.
D. Trenches shall be covered at all times when work directly associated with the trenches is not occurring, including non-work hours.
E. During the course of construction, the Contractor shall ensure that surface drainage does not create a nuisance onto adjacent properties.

1.06 Erosion Control Measures

A. Construction sites shall have required erosion and sediment control measures in place as required by the SWPPP. If construction is in progress, the Contractor shall ensure that the construction site is prepared prior to the onset of any storm. At a minimum, erosion control measures shall include:
    1. Broadcast seed
    2. Drainage area protection
    3. Dust/mud control
    4. Drain inlet filters
    5. Silt fence and straw wattles
    6. Slope protection
    7. Straw bales
    8. Silt controlling devices

PART 2 - PRODUCTS

2.01 Base Rock

A. Class 2 aggregate base per Caltrans Standard Specifications, latest edition.

2.02 Drain Rock

A. Drain rock shall be Class 2 permeable, washed, unbroken stone or gravel. Material gradation shall conform to the following:

Sieve Size	Percent Passing
1 inch	100
No. 4	20-50
No. 50	0-10
No. 200	0-5

2.03 Pea Gravel

A. Pea gravel shall be natural stone, free of clay, shale or organic matter, and shall conform to the following:

Sieve Size	Percent Passing
3/8 inch	100
No. 4	47
No. 8	2
No. 16	1

2.04 Fill

A. Fill for non-structural areas shall conform to the following standards:
   1. Plasticity: ASTM D4318-84
   2. Expansion Index: No greater than twenty (20)
   3. Testing: UBC 29-9 and ASTM D422-72
   4. Particle Size: No greater than one inch (1”)

2.05 Topsoil

A. The top eight to ten inches (8” – 10”) of native soil containing more than three percent (3%) organic material. Topsoil shall be free of rocks no larger than one inch (1”) in diameter, free from subsoil, roots, heavy or stiff clay, course sand, destructive seeds, noxious chemicals, brush, debris, litter and other undesirable materials.

B. For any import soil to be used in turf/planting areas, submit a soils analysis with soil amendment recommendations (for plant growth) for review and acceptance prior to placement on-site. Soils test information shall be as outlined in Section 32 90 00: Planting – 1.06.

2.06 Soil Sterilant

A. Sterilizer shall be standard, quick-acting, short-lived and non-selective weed and grass killer, commonly used under roadway/transportation projects. Application of the sterilant shall pose no short or long term health threats to the installer or the general public. Submit analysis for approval prior to applying.

2.07 Sand

A. Granular, fine, free of organic matter, mica, loam or clay material.

PART 3 - EXECUTION

3.01 Construction Staking

A. The layout of all work shall be performed by a California State licensed land surveyor provided by the Contractor.
B. Notify the Inspector immediately of any discrepancies between actual field conditions and the Plans. Minor field adjustments may be necessary in order to fulfill the intent of the Plans.
C. Non-notification of discrepancies between actual field conditions and the Plans by the Contractor, in writing, shall indicate his acceptance of such field conditions. Adjustments/modifications to the construction to accommodate the inconsistencies (without notification) shall be at no additional cost to the City.

3.02 Excavation

A. All excavations shall be as noted on the Plans. Excavations shall include accommodation of base material.
B. Do not over-excavate. Excavations shall provide appropriate space to install shoring, bracing, formwork, etc, as needed to ensure the safe and proper construction of the work.
C. Take every precaution to prevent water from entering, softening, and undercutting excavated areas, including, pits, footings, trenches, etc.
D. Notify the Inspector immediately upon discovery of unsatisfactory soils materials or unforeseen site conditions. Excavation shall include the complete removal of the unsatisfactory material and its legal disposal thereof.

3.03 Site Grading

A. A grading permit is required to be obtained by the Contractor prior to commencing any earthwork.
B. Grading shall include adjacent transition areas, new elevations/contours as shown on the Plans. All subgrade areas shall be graded parallel to the finish grades and contours and shall be uniform in slope. Transition areas shall provide a smooth connection between new and existing grades and shall not create additional drainage or ponding onto adjoining properties.

C. Surface grades shall provide for positive drainage away from structures and footings, and shall be uniformly smooth throughout.
D. Rough grading shall:
    1. Be graded to a tolerance of 0.10 feet, plus or minus for planted and turf areas.
    2. Be graded with a tolerance less than .04’ from specified grade and cross section for subgrade in which pavement, curbs and other structural elements are to be placed immediately above.
    3. Provide a subgrade surface free of exposed rocks, stones and boulders.
    4. Provide a subgrade surface free of depressions, pits, etc., with proper backfill and compaction. See paragraph 3.04 below.

3.04 Placement of Fill Material

A. Prior to placement of fill material, the Contractor shall:
    1. Obtain approval of the subgrade surface from the Inspector.
    2. Scarify, dry and compact soft and/or wet areas.
    3. Remove and replace unsuitable subgrade material to the satisfaction of the Inspector.
    4. Take all necessary corrective action.
B. Do not use topsoil as fill or backfill material, unless otherwise accepted in writing.
C. Fill shall be placed in the following manner:
    1. Accepted engineered fill material for structural slabs and areas to be paved shall be placed in six-inch (6”) loose thickness, uniform layers over the entire area.
    2. Fill material in planted areas shall be placed in twenty-four inch (24”) maximum loose thickness throughout the areas to receive fill.
D. Aerate or water each lift to obtain the required compaction rate indicated on the Plans. Thoroughly mix material to ensure proper moisture content for compaction. Repeat the operations until grades, as shown on the Plans, are obtained. Jetting of trenches shall be reviewed and accepted by the Inspector prior to performance of work.
E. Do not place fill when the subgrade is frozen, muddy or wet. Allow conditions to thaw and dry out before resuming operations.
F. Use hand tampers or vibrating compactors around foundations walls, retaining walls and other structural elements. Do not use large equipment in these areas and do not begin compaction operations until the bearing surfaces have reached its design strength.
G. Fill around existing trees to remain shall not exceed twelve inches (12”).
    1. Minor fill (6” or less) shall utilize topsoil and shall be placed by hand. Do not cover crown of trunk. Feather grades to the extent possible.

2. Fills between 6” and 12” shall utilize 3/4” pea gravel on grade, placed up to three inches (3”) below finish grade. Apply topsoil, by hand, to meet finish grade elevations. Feather grades to the extent possible.

H. Construct mounds from on-site material. The core of the mound (1’ below finish elevations) shall be compacted to 90%. The top twelve inches (12”) shall be compacted to 85%. Place topsoil in the top twelve inches (12”).

I. Place topsoil in all turf and planting areas a minimum of twelve (12) inches deep. See Section 31 10 00, 3.03-B: Clearing and Grubbing.

3.05 Trenching, Backfilling and Compacting

A. For trenches greater than five feet (5’) in depth, submit an OSHA permit related to the work.

B. All trenches shall be straight, true and cut vertical at 90 degrees to the surface plane.

C. For trenches through existing paved surfaces, use a concrete saw or other tool to achieve straight, clean lines. Replace paved surface to the same or better condition as existing prior to cut.

D. Do not over-excavate. Maintain bearing surfaces true, level and undisturbed to the extent possible.

E. Trenches shall be kept dry and frost-free. Do not allow standing water to collect.

F. Do not allow trenches to remain exposed at any time when work directly related is not occurring. Cover all trenches during non-work hours.

G. Bedding for all trenches to receive pipes shall be as follows:

1. Bedding material shall be consistent with the City of Roseville Design and Construction Standards, latest edition.
2. Pipe shall lie completely on bedding. Pipe fittings or joints shall not bear weight.
3. Bedding shall be uniform throughout the length of pipe.

H. Initial backfill for storm drains, sewer lines and electrical conduit shall conform the applicable City standard set forth by the Department having jurisdiction.

I. Backfill beyond the initial operations shall be native soil, placed in twelve-inch (12”) lifts. Compaction for trenched areas shall be 95% for parking lot, driveway and roadway areas; 90% for hardscape (i.e. walkways, picnic pads basketball and tennis courts); and 85% in areas to be planted. Place topsoil over trenches in planted areas. Upon completion, all trenches shall be filled flush with adjacent finish grades.

J. Compaction tests shall be required for trenched areas, hardscape areas and areas where fill over two feet in depth will be placed. The Inspector shall determine the number of tests and the locations. Re-tests shall be the Contractor’s responsibility.

K. Potholing shall be required in areas where existing utilities are indicated. Hand digging may be required.

3.06 Soil Sterilant

A. Soil sterilant shall be applied to areas where paving is to be installed. The worker applying the sterilant shall take every precaution to avoid overspray of sterilant onto areas to be planted. The sterilant shall be placed no further than six inches (6”) beyond the edge of pavement.
B. Soil sterilant shall not be applied in inclement weather and windy days.

3.07 Drainage Areas

A. All bare areas, regardless of slope, within 50 feet of natural drainages shall be covered with straw and pressed in place.
B. No grading or trenching, except as required for erosion or sediment control, shall occur within 35 feet from the centerline of perennial and intermittent drainage swales between October 5 and April 1 unless approved by the Engineering Division, as well as any other governmental agency which may have additional jurisdiction and/or requirements.

3.08 Dust/Mud Control

A. Adjacent Streets: Adjacent street frontages shall be swept at least once a day to remove silt and other dirt which is evident from construction activities.
B. Construction Vehicles: The Contractor is responsible for cleaning construction vehicles leaving the site on a daily basis to prevent dust, silt, mud and dirt from being released or tracked offsite. Adjacent streets shall be swept clean daily.
C. Grading Spoils: Dry stockpiles of soil shall be watered to prevent the generation of airborne dust. Trucks transporting dry soil shall be covered with tarpaulins.
D. Water: Water shall be sprayed on all exposed earth surfaces during clearing, grading, earth moving and other site preparation activities. The exposed earth shall be watered throughout the day to minimize dust. The Contractor shall obtain a hydrant permit from the Environmental Utilities Department.
E. Wind Allowances: Grading activities shall be restricted or halted when winds exceed 15 miles per hour as deemed necessary by the Public Works Inspector.

END OF SECTION

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SECTION 32 84 00
IRRIGATION SYSTEM

PART 1 - GENERAL

1.01 General Requirements

A. The requirements set forth in the General Conditions shall be in addition to the standards provided herein.

B. The requirements set forth in the Supplemental Conditions shall be in addition to the standards provided herein.

1.02 Description

A. Furnish all labor, materials and equipment for the complete installation of an automated irrigation system, including all necessary appurtenances for proper operation, noted or implied, as shown on the Plans and as specified herein.

B. Water usage, meter costs, connection fees, testing and other associated utility costs are considered direct costs and is the responsibility of the Contractor until the project is accepted.

C. Installation of the water meter shall be by the City.

1.03 Related Work

A. Section 32 90 00: Planting

B. Section 26 00 00: Site Electrical

1.04 Quality Assurance

A. All work shall comply with local and state laws, codes, regulations and requirements which govern any portion or all of the work contained in this Section. These include, but are not limited to, the latest editions of:

1. City of Roseville Park Construction Standards,
2. City of Roseville Design and Construction Standards,
3. City of Roseville Electric Department Standard Specifications,
4. Local, state and federal electrical codes, manuals and guidelines, and
5. Local, state and federal plumbing codes, manuals and guidelines.

1.05 Submittals

A. Submittals for specified items are not required for Parks or Streetscape projects, unless specifically listed below. However, submittals are required for any proposed substitutions or deviations from the parks Plans or Specifications. For Streetscapes, no substitutions will be accepted. The Contractor shall submit a materials summary sheet indicating which items will be installed as specified

and which items are proposed for substitutions. The Contractor shall submit proof of order within ten (10) working days of the Notice to Proceed, indicating all specified materials have been ordered, noting “as specified” or “substitution proposed”. Submittals are required on the following items:

1. Controller, Flow Sensor(s), and Master Valve(s).
2. Filter (Recycled water)
3. Booster Pump
4. Valves and Boxes
5. Sprinkler, Bubbler and Rotor Equipment

1.06 Explanation of Drawings

A. The drawings are diagrammatic and do not reflect all offsets, fittings and other miscellaneous items required for a complete and operable irrigation system. It shall be the Contractor’s responsibility to investigate all existing site conditions, become thoroughly familiar with the site, and provide all labor, materials and equipment required for the installation of the irrigation system.

B. Avoid conflicts between other trades and the installation of the irrigation system. Minor adjustments to avoid such conflicts shall be made in the field. Major discrepancies between actual field conditions and the Plans shall be brought to the attention of the Project Manager. The lack of notification shall indicate that the Contractor assumes full responsibility for any revision deemed necessary to ensure proper installation.

1.07 Product Delivery, Handling and Storage

A. All materials shall be delivered bearing manufacturer’s label with size, type and model number (if applicable) clearly marked.

B. All pipe shall be delivered in a vehicle which allows the material to lie flat without concentrated weight or stress at any point.

C. Unload all materials with care so as to avoid damage. Store materials in a covered area and do not expose PVC pipe to extreme sun or heat. Store pipe lying flat.

D. Do not install any material that has been damaged. Replace all material found to be damaged.

1.08 Record Drawings

A. The Contractor shall keep an accurate record of the as-built conditions of the irrigation system. These records shall be updated daily and kept at the construction site. At any time, the Inspector may examine the conditions of the “as-builts” to ensure compliance of the above.

B. Dimensions shall be recorded from two (2) permanent points of reference.

C. The City may at its discretion withhold progress payments to the Contractor if the as-built records are not updated to the satisfaction of the City.

PART 2 - PRODUCTS

2.01 General

A. All materials specified shall be new, bearing the brand name, type, serial numbers and model number as shown on the Plans and as specified herein, unless otherwise accepted in writing.

2.02 Backfill Material

A. Backfill shall be clean, screened, on-site material, free from organic material, large clods of earth and/or rock larger than one (1) inch in diameter, trash, debris, rubbish, tree trunks, broken concrete or asphalt and other unacceptable material.

B. Material larger than one (1) inch shall be removed from site and legally disposed. All removal shall be the responsibility of the Contractor.

2.03 Meter

A. Meter shall be as shown on the Plans and as required by the City of Roseville Environmental Utilities Department.

2.04 Filter (Recycled Water Only)

A. Amiad Filtration Systems, Manual Steel Filter, Red 130 micron filter element, match line size of recycled water meter.

2.05 Flow Sensor and Master Valve

A. Calsense Controllers:

1. Flow sensor shall be a Calsense Flow Meter (FM-B) featuring a proprietary, non-magnetic sensing mechanism and a six-bladed design. Flow sensor shall be accurate to +/- 1% of full scale. Flow sensor body shall be constructed of bronze.
2. Master valve(s) shall be Superior, 3000 series, electric globe valve, constructed of brass. For installations with a single master valve, the valve shall be normally open. For installations with two master valves, the larger valve shall be normally closed and the smaller valve shall be normally open.
3. Flow meters to be constructed consistent with the Calsense specifications.
4. Valve boxes for master valve and flow sensor shall be 18” (jumbo) green rectangular rigid plastic valve boxes with lockable lids and extensions by Carson Industries, LLC or accepted equal. Valve box lid shall be colored green in turf areas, tan in natural planter areas, and purple for recycled water applications.

2.06 Booster Pump

A. Customflow Quality Booster Pump by Custom Pump & Power, Inc.
B. Provide technical startup support, pump certification and 30 month following delivery warranty by Custom Pump & Power, Inc.
C. Variable Frequency Drive Control Panel with Fuji Eco Drive, NEMA 12 enclosure, main disconnect, DC choke, panel cooling fan, HOA switch on panel door, 110 volt transformer for controls and external fan, Terminals for wire connections, (2) Pump start relays for irrigation controller controls, ET/U.L. 508A Listed and proprietary programmed for City of Roseville standard operation by Custom Pump & Power, Inc.
D. IFM Efector PA3224 transducer is rated for 0-145PSI and adjustable through the VFD.
E. Enclosures to be sized to fit pump, VFD, valves, bypass, transducer, and pump inserted Hot Stop temperature protection to be activated at 120 degree with manual reset mounted on the VFD panel door. Flange connection for inlet and outlet outside the enclosure. Standard enclosure to be fitted for padlock and have a shock assisted opening on the front. Larger enclosures with removable doors with built in lock with the 402 key. All enclosures to be steel and powder coated dark green.
F. Installation by licensed contractor as shown on plans and connect power wires from meter pedestal and 24-volt control wire from the controller to the VFD line connectors inside the enclosure.

Booster Pump Assembly

This item shall consist of furnishing and installing a booster pump assembly as shown on the plan in conformance with these special provisions and the manufacturer's specifications.

A. Booster pump assembly shall be by Custom Pump and Power, Inc.
B. Customflow Quality Booster Package™ Model 100QUAD06282019-1/10VFD or approved equal. Booster pump assembly has been designed for Park WB-51, Reference Number 100QUAD06282019-1/10VFD . Assembly, testing, startup, and service by Custom Pump & Power, Inc. Electrical supply to power the booster pump assembly shall be provided by the Contractor. Single- Phase: 240-Volt: two-pole 60-Amp breaker for 31-amp load, 5-hp motor.
C. A Customflow Quality Booster Packages™ is designed to operate automatically through a control system. The irrigation system must provide (A) the water pressure through the plumbing connection and the (B) control device, The pressure source for the system can be city pressure, gravity, or a pump

that creates or boosts the required pressures The control device can be a controller linked with a pump start relay, for automatic operation. The basic function of the system will receive an external electrical signal, close a contact transferring the power to the motor and the pump is activated. When the demand stops, the contacts open and subsequently the pump turns off.

D. Conditions: Maximum flow: 100- GPM with 30- PSI boost: Electrical service 240 -volt: Single-phase: 24VAC-pump start assembled and mounted above ground in a weatherproof enclosure.
E. Water Supply in the future is reclaimed

All work shall comply with the City of Roseville Standard Specifications and shall meet applicable federal, state, and local building codes, including permits as required.

Design and install booster pump with electrical supply including permits and applicable fees.

Motor and pump sizing according to specifications. Pump brands used:

- Berkeley B Series only,
- Gould's 3656S
- Peerless C

Pump control panel to be ETL/UL 508 listed, mounted in NEMA 12 blown and filtered enclosure with main circuit breaker door interlocked handle, Fuji VFD Eco VFD only capable of single-phase input and three-phase output with DC link choke, drive display on the door, fused 110-volt control, 150VA control transformer, one fault light on door, two control relays, optional output terminal for external fan and HOA switch mounted on the panel for external control. Custom Pump standard operating system.

VFD Booster Specification

1.0 General

1.1. This specification shall establish the minimum requirements for variable frequency duplex control panels. Equipment that does not meet these requirements shall not be acceptable.

2.0 Operation Conditions

2.1 The operating ambient temperature range shall be 0*C to 50*C (32* to 122*F). Storage temperatures shall be between –40*C to 50*C (-40* to 122*F).

2.2 The relative humidity range shall be 5-95% non-condensing.

2.3 The variable frequency drives shall be suitable for operation at altitudes up to 3300 ft. without de-rating. Elevation above 3300ft derate 1% per 328Ft up to 9900 ft.

2.4 The variable frequency drives have been vibration tested in accordance with IEC 68-2-34.

2.5 The variable frequency drives have been mechanical shock tested in accordance with IEC 68-2-27.

2.6 The variable frequency drives electromagnetic emissions is in compliance with EN50081-2.

2.7 The variable frequency drives electromagnetic immunity is in compliance with IEC801 and EN50082-2, and complies with EN61800-3 with built in filter.

3.0 Standards

3.1 The panel is UL 508A, cUL 508A, and ETL 508A listed.

3.2 The panel is designed in accordance with applicable portions of NEMA standards.

3.3 The panel is compatible with the installation requirements of interpretive codes such as National Electric Code (NEC) and Occupational Safety & Health Act (OSHA).

3.4 Standard enclosure sizes are 1Hp to 10Hp 200 to 230Volts or 1Hp to 20Hp 480Volts is 24”x 15”x 14”,

4.0 Input Power

4.1 The panel is to operate on 200 to 240Volts +/-10%, single-phase with minimum 50% deration

4.2 The frequency is to be 60Hz +/-5%.

4.3 The MOV voltage of the drive 160 Joules, 1400VDC clamping.

5.0 Output Power

5.1 The drive shall be capable of horsepower ratings for 1Hp to 2300Hp and output frequencies up to 3,000Hz. It shall also have an energy save feature with the capability of selecting a V/Hz automatic control function that will modify the V/Hz curve based on light load characteristics that will minimize power consumption.

5.2 The drive output voltage shall vary with frequency to maintain constant volts/hertz ratio up to base speed (60Hertz) output. Constant or linear voltage output shall be supplied at frequencies greater than base speed (60Hertz).

5.3 The drive one minute overload current rating shall be 110% of rated current for normal duty loads and 150% torque for heavy duty loads.

6.0 I/O Specification

6.1 Seven programmable digital inputs.

6.2 Digital inputs can be programmed for positive or negative logic.

6.3 Three analog inputs (Analog 1 0-10VDC, Analog 2 and 3 programmable for 0-10VDC, 0-20Ma, 4-20Ma, 20-0Ma, 20-4Ma, or thermistor input).

6.4 Two programmable analog outputs (programmable for 0-10VDC, 0-20Ma, or 4-20Ma).

6.5 Secure Disable input meets EN954-1 cat 3.

6.6 One programmable dry contact rated 240VAC 2A resistive.

6.7 24VDC external input for backup power supply.

6.8 HOA selector switch

7.0 Features

7.1 V/Hz standard default mode or can be programmed in open loop vector or rotor flux control mode.

7.2 Three zero space solution module slots for fieldbus and additional I/O.

7.3 Smartcard for simple setup and cloning of drive parameters.

7.4 External 24VDC backup control supply connection.

7.5 PLC functionality built in with IEC 61131-3 programming language.

7.6 Built in EMC filter.

7.7 Built in dynamic brake transistor.

8.0 Protective Features

8.1 Under Voltage DC Bus 175/350/435VDC, Under voltage trip (approximately 124/247/307VAC line voltage).

8.2 Over Voltage DC Bus 415/830/990VDC, Over voltage trip (approximately 293/587/700VAC line voltage).

8.3 MOV voltage 160 Joules, 1400VDC clamping.

8.4 Transient protection line to line and line to ground.

8.5 Drive overload trip programmable for normal duty or heavy-duty operation.

8.6 Instantaneous over current trip is 225% of drive rating.

8.7 Phase loss trip due to DC bus ripple exceeded.

8.8 Over temperature trips; drive heatsink, control board, and option module monitoring.
8.9 Protects against phase to phase faults.
8.10 Protects against phase to ground faults.
8.11 Electronically protects the motor from overheating due to load conditions.
8.12 No flow shutdown with programmable auto restart attempts.

9.0 Quality Assurance

9.1 All panels shall be 100% tested to ensure proper performance upon delivery.
9.2 Three Year Warranty from the delivery date.

- IFM Efector transducer PA3224 with shielded cable.
- INOV8 temperature switch mounted on the pump volute with red fault light and reset on panel door.
- American Granby liquid filled gauges mounted on intake and discharge manifold.
- Gruvlok butterfly valves with grooved connection line size for bypass and applicable line size for pump suction.
- Anvil Check Valve
- Galvanized plumbing within unit are grooved connections and fittings for 2” and larger, painted dark green.
- (2) Flange connections outside the enclosure are supplied for connections.
- Above ground plumbing and drop pipes to be ductile iron and connected to the mainline. (Contractor to supply all ductile plumbing and fittings.)
- Booster pump assembly to be mounted on a level concrete pad 4” thick with a 3” apron all around including a minimum of three conduits for power and control wires. Also include 1/2" tool edge for extended life of the cement.

Booster Pump Enclosure B:

- Standard enclosure size 48”X 36”X 44”, uni-constructed two-piece with pivoting top and no hinges with shock absorber to assist opening and closing. Louvers on two sides for ventilation. Exhaust fan rated for 110 CFM, 115-volt, with finger guard for safety, external single muffin fan hood to shield from exposure. Pump and electrical panel mounted for easy service access. Powder coated dark green exterior and, all steel brackets and hardware for supports.

- Space for future flow sensor and meter valve downstream of the booster pump installation to be coordinated with City Irrigation Supervisor is required.

- Pumps equipped with mechanical shaft seals, back pull out designs with ample access to junction box.
- 36 months warranty following delivery.
- Contractor to provide equipment and assembly submittals prior to proceeding with work. (3 sets)
- Contractor to contact Custom Pump & Power to schedule technical startup and Pump Certification.

2.07 Pipe

A. PVC Pressurized Mainline

1. For lines three inch (3") or larger: polyvinyl chloride (PVC) 1120-1220, SDR 21, Class 200 rubber gasketed pipe, and NSF accepted per Standard No. 14, Type I, Grade I. Conform to:

Material	ASTM
Pipe	D1784, D2241
Rubber Gasket	F477

2. For lines two and one half inches (2-1/2") or smaller: Schedule 40 polyvinyl chloride (PVC) 1120-1220, and NSF accepted per Standard No. 14, Type I, Grade I. Conform to:

Material	ASTM
Pipe	D1784, D1785

B. PVC Non-Pressurized Lateral Lines

1. Schedule 40 polyvinyl chloride (PVC) 1120-1220, SDR 21.0, NSF accepted per Standard No. 14, Type 1, Grade II.

C. Recycled Water

1. Pipes shall meet the standards outlined in Sections 2.08, A and B above, unless otherwise noted in the City of Roseville Design and Construction Standards for recycled water, latest edition.
2. All pipes containing recycled water shall be purple, NSF accepted and conform to the City of Roseville Design and Construction Standards, latest edition.

2.08 Fittings and Nipples

A. Fittings for Potable Mainline Pipe:

1. For all control valves on mainlines three inches (3") and larger, use painted, ductile iron saddle taps with double stainless steel straps and nuts Model #202 by Romac Industries, Inc. or accepted equal.
2. For all other connections on mainlines three inches (3") and larger mainline pipe, use glued schedule 80 fittings.
3. For all connections on mainlines two and one half inches (2-1/2") or smaller, use glued schedule 40 fittings.

B. Fittings for Potable-Solvent Weld Pipe:
    1. Schedule 40 for 2 ½" pipes or smaller and Schedule 80 for 3" pipe and larger polyvinyl chloride (PVC), standard weight, conforming to ASTM D2466-73. Use Schedule 80 for all recycled water systems.
    2. Weld-on #P-70 primer and Weld-on #711 gray glue or accepted equal.
    3. Teflon tape for all threaded PVC fittings.
C. Plastic Nipples shall be Schedule 80, Type 1, Grade 1, polyvinyl chloride (PVC), threaded at both ends, and conforming to ASTM D1784 -85. Nipples shall be uniformly gray.
D. Fittings for Recycled Pipe:
    1. See Section 141 Recycled Water in the City of Roseville Design and Construction Standards, latest edition.

2.09 Swing Joints

A. Swings joints shall be as shown in the City Parks Construction Standard detail. Schedule 40 threaded PVC triple swing joints or an accepted equal.

2.10 Electric Remote Control Valve

A. Sizes as shown on the Plans. All valves shall be Rainbird PEB series or accepted equal and shall contain the following:
    1. a globe-type electric remote control, normally closed diaphragm type with slow opening and closing action,
    2. encapsulated solenoid type actuation,
    3. a minimum rating of twenty-four (24) volts,
    4. sixty (60) cycle,
    5. two to five (2-5) watts,
    6. a manual flow adjustment with shut-off provisions,
    7. provisions for an external "bleed" of the diaphragm chamber for manual operation.
    8. a ball valve on the inlet.
    9. Schedule 80 PVC threaded fittings from saddle tap to POC to valve.
B. Valve boxes shall be rectangular, rigid plastic valve boxes with lockable lids and extensions by Carson Industries, LLC or accepted equal. Valve box shall be sized appropriately to house entire valve assembly with space to accommodate maintenance access.
    1. Boxes shall be colored green in potable applications, and purple for recycled water applications.
    2. Valve boxes used on recycled water systems shall be permanently colored purple through the manufacturer. Boxes painted purple will be rejected.
    3. Label lids using heat branded identification, T:Turf, S:Shrubs, B:Bubblers

C. Controller station identification number shall be standard yellow tags with permanent numbers by Christy or accepted equal.

2.11 Root Watering System

A. Provide pre-manufactured root watering system.
   1. Pressure compensating bubbler. See irrigation sheets for flow rates.
   2. Check valve where applicable to prevent low head drainage.
   3. Swing joint assembly
   4. Locking grate top on semi-rigid mesh tube
   5. Filter fabric sleeve

2.12 Irrigation Heads

A. All irrigation heads shall conform to type, size, precipitation rate, gallons per minute discharge, pressure and throw radius as shown on the Plans, unless otherwise accepted in writing.
B. In all available models, all irrigation heads shall have stainless steel risers, unless otherwise approved in writing.
C. For recycled water applications, irrigation heads shall be colored purple, have debris pocket, and wiper seals with 3 touch points.
D. Irrigation heads shall have built-in pressure regulation for pop up sprays and/or water-efficient heads.
E. Include built-in check valve where applicable to prevent low head drainage.

2.13 Drip Irrigation

A. Sub-surface dripline.
   1. Flexible polyethylene tubing shall have factory-installed pressure-compensating, inline emitters spaced evenly per listed spacing.
   2. Emitter shall incorporate elemental or ionic copper root intrusion prevention technology, and shall be warranted by the manufacturer to be free of emitter plugging due to root intrusion for a period of fifteen (15) years minimum.
   3. Emitter shall have a built-in check valve that will hold back, at minimum, an 8.5' column of water.
   4. Dripline for use with recycled water systems shall be properly and permanently marked for non-potable use.
B. All fittings shall be constructed of injection molded, brown plastic having a nominal outside dimension of 17mm (0.56”). Female and male threaded ends shall be capable of mating to standard PVC pipe with tapered threads.
C. Line flushing valve
   1. Valve shall be schedule 40 PVC ball valve with brass hose thread adapter.

2. Valve box shall be rigid plastic, with lockable cover by Carson Industries, LLC or accepted equal. Boxes shall be colored green in potable applications, and purple for recycled water applications.
3. Drip system operation indicator shall be Rainbird 1812 Pop-up spray body with 4-VAN nozzle set to 0-degree pattern, with Rainbird SA-125050 swing assembly and XFF-TFA barbed bt ½" FIPT fitting, or accepted equal.

D. Pressure Regulating Filters shall be Rainbird PRB Pressure Regulating Basket Filter, or approved equal, and shall include: Basket style body and jar-top cap constructed of heavy-duty glass-filled, UV-resistant polypropylene, with 150 PSI (10,3 bar) operating pressure rating. Standard 200 mesh (75 micron) filter screen constructed of stainless steel attached to propylene frame. Normally-open in-line pressure regulating device, constructed of durable, UV resistant non-corrosive material able to accommodate an inlet pressure rating of not less than 150 PSI (10,3 bar), with preset outlet pressure of approximately 40 PSI (2,8 bar).

2.14 Thrust Blocks

A. All thrust blocks shall be concrete. The size of the blocks shall be determined by the average safe soil-bearing load of 700 lbs. per square foot.
B. Polyethylene sheeting at thrust blocks shall be 6mil.

2.15 Quick Coupler Valves

A. For recycled water, quick coupling valves shall be Rainbird #44NP lockable or accepted equal. All quick coupling valves shall be:
   1. brass or bronze with one (1) IPS female pipe connection,
   2. two piece body with a removable upper portion (for replacement), and
   3. durable yellow covers for potable and purple for recycled.
B. Valve keys shall be brass or bronze and shall be of the same manufacturer and size as the valve.
C. Valve box shall be rigid plastic, a minimum of ten inches (10") in diameter with lockable cover by Carson Industries, LLC or accepted equal. Boxes shall be colored green in potable applications, and purple for recycled water applications.
D. Where recycled water is used, conform to the City of Roseville Design and Construction Standards.

2.16 Manual Valves

A. For pipe four inches (4") and larger gate valves shall be:
   1. located where shown on the Plans,
   2. flanged with Class 125 cast iron body,
   3. bronze trimmed with a non-rising stem,

4. square operating nut,
5. able to withstand a cold water pressure of 150 pounds per square inch, and
6. sized to match the pipeline which the valves serve, unless otherwise shown on the Plans.

B. For pipe three inches (3") or smaller and on pipes which feed directly into a remote control valve, ball valves shall be installed and shall:
1. allow for manual operations,
2. rapid on/off , drip-tight shut-off control,
3. be constructed of bronze or brass with heavy-duty handle,
4. operate up to 22 gallons per minute,
5. operate between 15 and 150 pounds per square inch, and
6. be sized to match the pipeline which the valves serve, unless otherwise shown on the Plans.

C. Valve box shall be rigid plastic, a minimum of ten inches (10") in diameter with extensions and lockable cover by Carson Industries, LLC, as shown on the Plans or accepted equal. Boxes shall be colored green in potable applications, and purple for recycled water applications.

2.17 Automatic Irrigation Controller

A. Automatic controllers shall be Calsense CS3000 or accepted equal, as distributed by Ewing Irrigation, 500 Berry St # B, Roseville, CA, 95678, Attn: Tom Noonan, (916) 812-5034. Each controller shall include:
1. CS3-LR – Calsense Local Radio,
2. FM-B – Flow Meter (Brass),
3. CS3-SSE or CS3-SSE-D – Stainless Steel Enclosure with:
a) CS3000 Transient Protection
b) TP-110 – AC Line Protection,
c) LR-STUBBY – Antennae w/2ft cable
d) On/Off Switch
e) GFI electrical outlet inside enclosure.

B. Communication wire between controllers shall be Paige Cable P7171D or accepted equal.

2.18 Control Wires

A. Direct burial solid copper wire AWG-U.F. 600 volt.

B. Common wire shall be minimum #12-gauge.

C. Pilot wires shall be red, minimum #14-gauge. Wire gauge shall be, at minimum:

Wire Gauge	#14	#12	#10	#8
Max. Distance (ft.)	2,500	3,250	4,000	4,800

D. Splices:

1. Wire connections at remote control valves only shall utilize 3M direct bury splice kit model #DBY (yellow) or model #DBR (red).
2. All other splices, including line splices, connections to flow meters and other sensors, shall utilize Spears DS-100 Connectors with Spears DS300 sealant, or accepted equal.

E. Wiring colors shall be:

USE	COLOR
Flow	Yellow
Master	Blue
Pump	Black
Valves	Red
Common	White
Spare	Orange
Tracer	Green

2.19 Sleeves

A. Schedule 40 PVC 1120-1220 and two times the diameter of the pipe to be accommodated by the sleeve, one (1) for control wires and one (1) for main line, and one (1) for lateral lines.
B. Maximum one (1) line per sleeve.
C. Add one (1) spare, same size as largest.

2.20 Tracer Wire

A. Insulated solid copper wire, minimum #12 gauge. Color shall be green.

PART 3 - EXECUTION

3.01 Site Conditions

A. Prior to start of irrigation work, review the site conditions to verify that stub- outs, points of connections, sizes of the points of connections, water pressure and other essential items necessary for irrigation work to commence are as shown on the Plans and as indicated in the Specifications.
B. Notify the Inspector immediately of any existing conditions which are unacceptable for the commencement of irrigation work.

3.02 Coordination of Work

A. Coordinate all work with other trades.
B. The irrigation plan is diagrammatic. Whenever possible, locate all pipes in planted or turf areas. Do not scale off of the Plans. Where field conditions have changed, notify the Inspector immediately.

3.03 Excavation and Trenching

A. Trenches shall be dug straight and in such a manner as to completely support the pipe continuously along the bottom of the trench. In rocky conditions, over-excavation and placement of clean bedding material may be required to ensure protruding rocks do not place undue stress on pipes. Trench layout shall follow that shown on the Plans, except where accepted by the City.

B. The following minimum cover shall be provided for pipe:

Pipe Type	Minimum Cover
Pressurized Mainlines	24”
Non- Pressurized Lateral Lines	18”
Domestic Water Lines	24”
Control wires	24”
PVC Sleeves under Paving	18”
PVC Sleeves under Auto X-ings	24”

C. Install detection wire, looped in and out of valve boxes and attached to all irrigation mainlines.

D. High voltage wires shall not be installed in the same irrigation water line trench.

3.04 Testing and Flushing

A. Pressure Testing shall occur only when the following conditions can be fulfilled:

Item Description	Condition
Quick coupler valves	Installed and capped
Electric remote control valves	Installed
Flow valve	Installed and open
Ball/Gate valves	Installed and open
Lateral lines	Disconnected
Welded PVC joints	Cured at least 24 hours
Pipe	Center loaded with backfill
Concrete Thrust Blocks	Installed and cured at least 48 hours
Couplings and fittings	Exposed
Detection wire	Installed

B. A pressure gauge shall be installed at the lowest point of the line. Continuous pressure shall be applied at a rate of 125 psi for all mainlines. The pressure shall remain stable for a minimum of two hours with no detectable leakage. Upon completion of the test, a complete examination of the line shall be conducted by the City. Leaks resulting from the test shall be repaired and the line shall be re-tested. This process shall be repeated until the line passes the leakage test.

C. All lines and risers shall be flushed prior to final installation of irrigation heads. All control valves shall be left open during the flushing process.

3.05 Backfilling and Compacting

A. Backfilling of trenches shall not occur until all tests and reviews have been performed. See inspection record contained in the Parks Construction Standards, latest edition. Any trench that is prematurely backfilled may be required to be re-dug for review.
B. Compaction of the trenched areas shall meet the following compaction rates of 95% in areas to receive paving and 85% in areas to be planted.
C. Do not flood trenches unless otherwise accepted by the City.
D. Sunken trenches shall be re-finished flush with the adjacent grades.

3.06 Backflow Prevention Device and Enclosure

A. Install per local codes and manufacturer's instructions.
B. When the flow meter is installed above grade, install a backflow prevention device enclosure with lockable gate.

3.07 Flow Meter Installation

A. Install per local codes and manufacturer's instructions.
B. All flow meters shall be installed in ground.
C. Install 3/4" conduit from irrigation controller to flow meter valve box. Install a pull box every 100'.
D. Valve box lids shall be permanently marked identifying FM for flow meter and MV for master valve and GR for grounding rod with heat branding using stencils in a uniform location on all boxes throughout.

3.08 Booster Pump Installation

A. Install per local codes and per manufacture's instruction.
B. Furnish wires and conduits to connect electrical power, and 24-volt pump start controls to the VFD panel located inside the VFD panel
C. Ductile iron plumbing from the flanges above ground to the mainline.
D. Install level concrete housekeeping pad for the pump enclosure per plans, 4" thick, 1"above ground, with 1/2" tool edges
E. Thrust blocks to be installed per pump manufacturer's and landscape architect's requirements.

3.09 Pipe Installation

A. Install irrigation pipe in planted areas whenever possible.
B. All pipe and fittings shall be cleaned and free from dirt, dust and moisture.
C. Pipe may be assembled along the trench at grade to avoid undue strain on the pipe or the fittings. All solvent weld connections shall be primed before applying glue. Snake the pipe within the trench to compensate for expansion and contraction.

D. All PVC pipe and metal valve connections shall be made with threaded fittings consistent with drawings PK-15 and PK-16 of the City of Roseville Parks Construction Standards.
E. All PVC-to-PVC threaded connections shall be made with Teflon tape.
F. Install concrete thrust blocks in locations where rubber gasketed irrigation mainlines change directions, e.g. ells, tees; as required on other lines and fittings; and at the termination point of the mainline. Do not conduct a pressure test within 48 hours of the thrust block pours. The size of the thrust blocks shall be per manufacturer's instructions and shall be adequate in size to absorb thrusts up to the maximum internal water pressure. Refer to 3.18 Thrust Blocks.
G. Use glued fittings for all connections inside of a sleeve and within 20' of a sleeve.

3.10 Electric Remote Control Valves

A. Install per local codes, manufacturer's instructions, City of Roseville Design and Construction Standards and as shown on the Plans.
B. Install one (1) electric remote control valve per box and whenever possible, group valve boxes together. Align boxes in a straight and neat row and flush to finish grade. Provide a minimum of six (6) inches between boxes.
C. All valves shall be tagged for easy identification of valve number. Valve box lids shall be permanently marked identifying valve number and controller letter with heat branding using stencils in a uniform location on all boxes throughout.
D. Each valve shall be separately saddle tapped. Manifolded valves shall be rejected.
E. Locate valve boxes outside of turf areas, adjacent to paving, i.e. sidewalks, hardscape, etc. except where shown on the Plans.
F. Provide a minimum of eighteen (18) inches of a complete set of spare control wires, looped, within all control valve boxes.

3.11 Irrigation Heads

A. Install all heads where shown on the Plans and as specified herein.
B. Turf rotary pop-up heads shall be placed two (2) inches from any edge of adjacent walkway, concrete mow band, concrete curb, header board or other hardscape edging, or as required by current WELO regulations.
C. Rotary pop-up heads shall be installed flush with the top of finish grades of turf or planting areas.
D. Sprinkler head riser nipples sizes shall match or be the same as the riser opening of the sprinkler body.
E. Install sprinkler heads with internal check valves where heads are located in low drainage areas, i.e. bottom of berms, bottom of drainage swales, toe of slopes, etc.

F. Install all heads perpendicular to ground surface with an offset from the edge of pavement as indicated in the details.

3.12 Drip Irrigation

A. Drip irrigation is to be installed in a grid pattern layout of equal spacing between rows, unless otherwise noted on approved plans.
B. All drip irrigation shall be installed sub-surface, per manufacturer's specifications. Staple all tubing to soil at 5 feet on-center spacing prior to backfilling.
C. Drip line shall be installed prior to plant installation, with the exception of 15-gallon and larger plant container sizes, which may be installed first at the discretion of the contractor.
D. Line Flushing Valves are to be installed below grade, as detailed, in a valve box with bolt-down lid to allow for periodic inspection and flushing.
    1. Minimum of One (1) Line Flushing Valve shall be installed for every fifteen (15) GPM of zone flow, and at every termination point within a zone, and shall be installed at a point farthest away from the source (typically on an exhaust header) as possible.
E. Pop-up drip system operation indicators shall be placed within eighteen inches (18") of each Flush Valve and shall not be placed such that it will be obstructed by vegetation. Place minimum twelve (12) inches from adjacent hardscapes.
F. If required, Air/Vacuum Relief Valves shall be installed below grade in valve boxes to allow for periodic inspection.
G. Valve box lids shall be permanently marked identifying LF for Line Flush valve and AR for Air/vacuum Relief with heat branding using stencils in a uniform location on all boxes throughout.

3.13 Quick Coupler and Gate Valves

A. Install per local codes and manufacturer's instructions.
B. Locate valve boxes flush with finish grade, twelve (12) inches from walkways, curbs, header boards, etc., and within planted area whenever possible.
C. Install one (1) valve per box.
D. For quick coupler valves, install at 100 feet on center to the extent possible. Provide a 24" steel support staked adjacent to the riser using two (2) stainless steel clamps.
E. For gate valves, install at locations indicated on the Plans.
F. For valve boxes installed below grade, provide 3M ball markers.
G. Valve box lids shall be permanently marked identifying GV for gate valve and QC for quick couplers, and SB for splice boxes with heat branding using stencils in a uniform location on all boxes throughout.

3.14 Automatic Controller

A. Install per local codes and manufacturer's instructions within the specified enclosure.
B. Provide single Paige Cable P-7171D installed in conduit between all controllers.
C. Provide all necessary wiring for a complete installation between the controller and the valves.
D. Above grade wiring shall be installed in metal conduit, unless otherwise accepted. Securely mount conduit onto enclosure or wall and paint to match the adjacent surface.
E. Provide a grounding rod and bonding for each enclosure as required for lightning protection. Grounding rod shall be consistent with drawing PK-1 of the City of Roseville Parks Construction Standards. Install separate grounding rods for each enclosure where bonding is impractical.
F. Label each controller, using permanent markings, with the letter identification indicated on the Plans. Affix label on the inside of the controller cabinet door.
G. Install 110V outlet (GFIC) inside controller enclosure.
H. Provide two (2) reduced as-built irrigation diagrams, laminated and color-coded indicating controller letter, valve/station numbers, valve size, operating pressure, gallons per minute and type of planting for each valve. See Section 01 10 00: Summary of Work 1.15B.
I. Ground test to be conducted after installation. Test results shall not exceed 25 ohms.

3.15 Control Wires

A. Wherever possible, install control wires in common trenches with mainline. The wires shall be taped in bundles at ten (10) feet on center and laid to the side of the pipe. Provide slack between ties to allow for contraction.
B. Wire valve to controller as shown on the plans.
C. Where runs are long, provide an extra three (3) feet of extra ground and control wires looped at 200' intervals. Snake wires within trenches to allow for contraction.
D. Line splices shall occur in valve boxes at grade, label and allowed only on lengths greater than 2500'. Show locations on as-built plans.
E. Do not wrap wire around pipe or allow any wiring to be placed in concrete or concrete thrust blocks.
F. Install two (2) spare wires starting from the controller, looped to each valve box to the furthest valve box, without splices.

3.16 Tracer Wire

A. Install tracer wire on top of the mainline.
B. Provide a twelve-inch (12") loop in and out of each valve box. Solder all splices.

C. Where potable water lines are placed in a separate trench, install a tracer wire on top of the potable water line.
D. Tracer wire shall be tested during review and pressure test of the mainline.

3.17 Sleeves

A. Install sleeves under all pavement and as shown on the Plans.
B. Install sleeves at the depths indicated in Section 3.03B above.
C. Extend sleeves a minimum of twelve (12) inches beyond the edge of pavement.
D. At every sleeve location installed in roadways, provide a spare PVC sleeve capped at each end and marked with a 3M ball marker.

3.18 Thrust Blocks

A. Install polyethylene sheeting between mainline and concrete.
B. Thrust blocks shall be formed against a solid trench wall. The thrust block cavity shall be in undisturbed soil or previously placed compacted backfill that yields an acceptable allowable bearing pressure.
C. Concrete thrust blocks shall not be poured on valve wires.

3.19 Cross Connection Testing for Recycled Water Systems

A. The Recycled Water System shall be tested for cross connection in accordance with Uniform Plumbing Code Appendix J prior to use.
B. All testing of Recycled Water Systems must be performed utilizing a potable water source via a construction water connection per City of Roseville Construction Standards. No Recycled Water may enter a Recycled Water System until all testing is successfully completed.
C. At the time a cross connection test is to be performed, construction on both the Potable and Recycled Water Systems being tested must be complete and both systems fully operational and functioning as designed.
D. Cross connection testing shall be performed in the system by City forces with the assistance of the contractor. The test must be coordinated through the Parks Department Inspector. Forty-eight (48) hours' notice is required before the test. Depending on complexity of the site, a preliminary field meet may be required.

3.20 Coverage Test

A. Prior to planting, the Contractor shall perform a coverage test to confirm that water coverage is complete and adequate, and produces no overspray onto hardscapes. Irrigation pressure readings at the head or emission device may also be taken as part of the coverage test to confirm adequate system hydraulics.

B. The coverage test shall be performed on the entire irrigation system and shall be performed in the presence of the Parks Inspector. The irrigation system must be connected to the City water system through the water meter. Temporary connections are not allowed. On recycled water systems, the coverage test shall take place only after successful completion of the cross-connection test, with the recycled water meter in place.

C. On Park projects containing turf, a comprehensive survey of the Distribution Uniformity (Low Quarter) of each irrigation zone containing turf shall be performed by a third-party, certified irrigation auditor prior to planting of turf. The irrigation system must be 100% complete, including functionality of the irrigation controller and booster pump, if present. The irrigation auditor shall prepare and submit a report listing each zone's Distribution Uniformity, noting any potential deficiencies in the system leading to any inadequate findings. Reported deficiencies in Distribution Uniformity will be evaluated by the Project Manager and may require corrective measures prior to approval of turf planting. Deficiencies caused by improper installation shall be corrected at no additional cost to City.

3.21 Irrigation Audit

A. A landscape irrigation audit shall be performed after all landscape and irrigation is installed. The irrigation system must be 100% complete, including functionality of the irrigation controller and booster pump, if present.

B. All landscape irrigation audits shall be conducted by a third party certified landscape irrigation auditor. Landscape audits shall not be conducted by the person who designed the landscape or installed the landscape.

C. The water audit shall conform to the specific water audit requirements of the City of Roseville Environmental Utilities Department, and any supplemental requirements from the City of Roseville Parks, Recreation & Libraries Department. The contractor shall submit a comprehensive landscape irrigation audit. This shall include, but is not limited to:
   1. A completed Irrigation Audit Report-(City of Roseville provided forms only)
   2. Complete system evaluation, including site conditions, system and flow data.
   3. Scheduling parameters used to set the irrigation controller.
   4. An Irrigation schedule for the landscape provided to the owner.

D. A minimum of 25% of all zones shall be audited. The 25% minimum shall be a representative sample of each irrigation method present (i.e. Rotors, bubblers, rotary nozzles, drip, etc.), and is in addition to any turf zones audited during the coverage test.

E. Any deficiencies noted in the audit report such as, but not limited to, run-off, overspray, obstruction of spray patterns, etc., shall be corrected and signed off

as such by the original irrigation auditor prior to submission of the report. Do not submit audit reports with uncorrected deficiencies.

3.22 Clean Up

A. Each phase of work shall be immediately cleaned up. Excess equipment, material, etc., shall be legally disposed of and removed from site. All concrete, asphalt and/or decomposed granite paving shall be kept free of soil. Damage to such surfaces shall be immediately repaired to the satisfaction of the City.

PART 4 - GUARANTEE

4.01 General

A. Contractor shall provide a written guarantee covering all materials, equipment and workmanship furnished by him to be free of all defects after installation is accepted, including all defective parts that may have been found.
B. All paved areas shall be swept clean and planted areas shall be weed-free.
C. All irrigation heads shall be properly adjusted. Debris and refuse shall be removed from site prior to inspection.

4.02 Pre-Final (Punch List) Review

A. See Section 01 10 00 1.16 - Summary of Work for notification process.

4.03 Establishment

A. Full automated utilization of the irrigation system shall be included as part of the maintenance of the project. See Section 329000: Planting for additional information.
B. Program and utilize the establishment schedule as submitted with the turn-in items.
C. Contractor to run the system in “quantity” mode or “time plus flow” for a minimum of one (1) week.
D. Check the irrigation system weekly to ensure proper operations. Make all necessary adjustments, including watering schedule to ensure proper and healthy plant growth. At no time shall pools of water be present within any part of the project. Conversely, at no point shall dry or under-watered spots be visible upon inspection.

4.04 Final Review

A. The Contractor shall demonstrate to the City, valve by valve, the entire irrigation system to be operable. All heads shall be adjusted/flushed and all drip zones shall be flushed prior to the on-site review. Any item requiring adjustments shall be completed immediately and to the satisfaction of the City.

B. Provide necessary training to City staff in the proper operations and maintenance of the booster pump.
C. The date of final acceptance by the City Council or the recordation of the property transfer shall signify the start date of the warranty period. Final acceptance shall include the project in total and will not segregate any specific item or trade included in the construction of the project.

END OF SECTION

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SECTION 32 90 00
PLANTING

PART 1 - GENERAL

1.01 General Requirements

A. The requirements set forth in the General Conditions shall be in addition to the standards provided herein.

B. The requirements set forth in the Supplemental Conditions shall be in addition to the standards provided herein.

1.02 Description

A. Furnish all labor, materials and equipment for the complete installation of landscape items, including all trees, shrubs, groundcovers and turf; maintenance for the establishment of new plant materials; and all necessary appurtenances for proper planting, noted or implied, as shown on the Plans and as specified herein.

1.03 Related Work

A. Section 31 20 00: Earthwork

B. Section 32 84 00: Irrigation System

1.04 Quality Assurance

A. Provide an experienced foreman who shall directly supervise the work force during all work to be performed under this contract. The foreman shall be present during the time when work is to be performed.

B. Plant material shall conform to current “American Standards for Nursery Stock” and the State of California Grading Code of Nursery Stock, No. 1 grade. Use only nursery-grown stock.

C. All plant material shall be certified free of plant diseases and insect infestations from the County Agricultural Commissioner as required by law. Each shipment of plant material shall be required to have clearance certificates.

D. Prior to planting, a soils fertility test/analysis shall be conducted by an accepted and qualified testing laboratory. Test results shall contain existing nutrient levels, soil texture, cation exchange capacity, soluble salts, pH levels, infiltration rates and recommended soil amendments/fertilizers to ensure proper growth of the specified plantings.

1.05 Submittals

A. Submittals for specified items are not required; however, submittals are required for any proposed substitutions or deviations from the Plans or Specifications. Additionally, submittals are required for the specific items listed below. The Contractor shall submit a materials summary sheet indicating which items will be installed as specified and which items are proposed for substitutions. The Contractor shall submit proof of order within ten (10) working days of the Notice to Proceed, indicating all specified materials have been ordered, noting “as specified” or “substitution proposed”. Submittals are required on the following items:

1. Bark mulch material,
2. Certificates of compliance for turf seed mix, soil amendments, fertilizers and hydroseed mix,
3. Turf seed mix,
4. Soils test with soil amendment recommendations.
5. Trees
    a) Submit for approval, plant sources including the names of nurseries proposed as sources of acceptable trees, and a list of the trees they will provide. The plant list shall include the botanical and common name and the size at the time of selection, including basal caliper and height.
    b) Submit all requests for substitutions of plant species or size for approval. Request for substitution shall be accompanied with a list of nurseries contacted in the search for the required plant and a record of other attempts to locate the required material. Requests shall also include sources of plants found that may be of a smaller or larger size, or a different shape or habit than specified, or plants of the same genus and species but different cultivar origin, or which may otherwise not meet the requirements of the specifications, but which may be available for substitution.

1.06 Soil Testing

A. Native soil and in-place topsoil shall be tested for amendment determination. Soil Tests shall include soil texture, macro nutrients, micro nutrients, lime, base saturation, pH, sodium, boron, salinity, Cation Exchange Capacity (CEC), and Organic content.

B. Submit soils report for review and approval after completion of grading operations. Soil Testing shall be performed by an agriculture-based lab, with detailed, written recommendations for soil amendments and fertilizers specific to ornamental landscape plants and turf.

1.07 Product Delivery, Handling and Storage

A. All materials shall be delivered bearing nursery label with botanical, common names, including cultivars.

B. Carefully handle plant material to ensure that limbs are not broken during the planting or storage of the material.

C. Store plant material in a covered area on-site, protected from inclement or hot weather on-site. Keep root balls moist by frequent watering (during hot weather) of all accepted stock until such time as planting occurs.

1.08 Inspection of Plant Material

A. Notify the Project Manager a minimum of 48 hours prior to date of delivery. All plant material is subject to inspection at the time of delivery. A sample number of plants will be inspected for the following items:

If the sample....	**then the plant shall be...**
is healthy, shapely and well rooted	accepted.
bears a strong central leader	accepted.
is wilted, wind-blown or sunburned	rejected.
is root-bound, restricted or deformed	rejected.
does not bear a strong central leader or has been severely pruned back	rejected.

B. Stock to be consistent with CALFIRE Nursery/Tree Quality Cue card and Root Management Cue Card. Inspector may require contractor to remove tree or plant stock from plant containers to examine roots.

C. 15 gal tree needs to have at least 1” in basal caliper, a 24” box tree needs to have at least 2” in basal caliper, a 36” box tree needs to have at least 3” in basal caliper. Basal caliper is measured as 6” above the ground.

D. Based on the sample inspection, the Project Manager or Inspector reserves the right to reject any or all of the plant material delivered. All rejected plant material shall be immediately disposed of off-site.

1.09 Record Drawings

A. The Contractor shall keep an accurate record of the as-built conditions of the landscaping. These records shall be updated daily and kept at the construction site. At any time, the Inspector may examine the conditions of the “as-builts” to ensure compliance of the above.

PART 2 - PRODUCTS

2.01 Plants

A. The material to be planted shall conform to that indicated on the plans, unless otherwise accepted. The quantity shown on the Plans is approximate and is

furnished for convenience only. Verify all quantities prior to ordering plant material.

2.02 Turf

A. Turf shall be *seed*.
B. Seed –
   1. 98% pure, weed-free mixture with a minimum of 95% germination. Deliver on-site unopened and in the original containers.
   2. 100% Turf Saver RTF (Rhizomatous Tall Fescue) by Barenbrug or accepted equal.
   3. Rhyzome – Active Tall Fescue Blend by Pacific Coast Seed or accepted equal:
      34% Traverse Turf-type Tall Fescue
      33% 3rd Millennium Turf-type Tall Fescue
      33% Rhambler Turf-type Tall Fescue
   4. Turf seed mix shall be Blue tag certified.
C. Seed / Sod must be submitted and accepted by the Project Manager prior to ordering.

2.03 Soil Amendment

A. As recommended by soils test report.

2.04 Mulch

A. Regular “Walk-on” fir bark as manufactured by Redi-Gro Corporation, Sacramento, CA (916) 381-6063, Mallard Creek, Inc, Rocklin, CA (916) 645-1681, My Bark Company, Inc., Linden, CA (209) 649-4250 or accepted equal.
B. Decorative bark, shredded lumber or saw dust, and construction debris are not permitted. The mulch must be free of needles.

2.05 Topsoil

A. Stockpiled, on-site material.
~~B. Imported topsoil shall be natural, friable, well-draining, free from admixture of subsoil and foreign objects larger than one inch (1”) in diameter, free from toxins or any other harmful substance which may deter healthy plant growth.~~
~~C. Perform a soils test for all imported soil. Soil test shall comply with Section 1.06. Submit soils report for review and approval prior to import activities.~~

2.06 Pre- and Post- Emergent Herbicide

A. Clean, and non-staining. Consult with a pesticide specialist.

2.07 Tree Stakes and Ties

A. Two (two) inch diameter by eight (8) feet long minimum, pine or douglas fir (pressure or non-pressure treated).
B. Three (3) inch diameter by ten (10) feet long minimum, pine or douglas fir (pressure or non-pressure treated).
C. Tree ties should be cut in length out of flat woven polypropylene material, 3/4 inch wide, and 900 lb. break strength. Color to be Green. Product to be ArborTie manufactured by Deep Root Partners, L.P. or approved equal.
D. Tree guying to be flat woven polypropylene material, 3/4 inch wide, and 900 lb. break strength. Color to be Green. Product to be ArborTie manufactured by Deep Root Partners, L.P. or approved equal.

PART 3 - EXECUTION

3.01 Site Preparations

A. Prior to start of landscaping work, review the site conditions to verify that final grades have been established, plant/turf beds are weed free, and the irrigation system is operational as shown on the Plans and as indicated in the Specifications.
B. For landscaping within all street right-of-ways, conduct a soils analysis test of the existing soils and remove all lime-treated soils, aggregate base or other non-organic material to a minimum depth of two feet before planting or irrigation installation. Import topsoil to bring the finish grade to specified grades. Submit the soils analysis test results of the imported material prior to import.
C. Notify the Inspector immediately of any existing conditions which are unacceptable for the commencement of landscaping work.

3.02 Coordination of Work

A. Coordinate all work with other trades.

3.03 Preparation of Planting and Turf Areas

A. Upon completion of grading and underground activity, Contractor shall obtain a soils test as outlined in 1.06.
B. Place stockpiled topsoil in all areas to receive planting or turf to a minimum depth of twelve inches (12”).
C. Rip topsoil surface in two directions to a minimum depth of twelve inches (12”).
D. Spread soil amendments at the rates indicated in the soils report.
E. Rototill amendments to recommended depths. Till amendments to a depth of 6” or as recommended by soils report.
F. Remove all rock and debris which are greater than ½ inch in areas to be turfed and one inch (1”) in areas to be planted.

G. All planted and turf areas to be smooth and uniform in grade as shown on the Plans.
H. Planting areas to be sloped to drain as shown on the Plans.

3.04 Storage of Plants and Trees

A. Protect materials from deterioration during delivery and storage. Adequately protect plants from drying out, exposure of roots to sun, wind or extremes of heat and cold temperatures. If planting is delayed more than 24 hours after delivery, set plants in a location protected from sun and wind. Provide adequate water to the root ball package during the shipping and storage period, including weekends and Holidays.
B. Soil moisture shall be maintained above wilting point and below field capacity for the root ball substrate or soil.
C. All plant materials must be available for observation prior to planting. Any plants determined to damaged or distressed due to improper watering may be rejected by inspector and shall be replaced at no cost to City.

3.05 Plant Installation

A. Tree and Shrub Planting
    1. Remove only those plants which will be planted the same day. Place such plants in the proposed locations for review and accepted by the City prior to actual planting. Notify the Inspector a minimum of 48 hours prior to day of planting.
    2. Dig planting pits as shown on the Plans and as shown in the Parks Construction Standards. Scarify the sides and bottom of pit to prevent glazing. Fill pit completely with water and allow the water to completely drain from the pit prior to actual planting.
    3. Relocate any plantings taller than 6” in height that fall in front of any irrigation head in order to ensure proper coverage of the irrigation system.
    4. For pits that retain water, completely penetrate the hardpan layer at the bottom of the pit and backfill with topsoil. Fill pit with water to test and ensure proper drainage.
    5. Prior to tree planting a central leader needs to be established by pruning, as necessary. Codominant leaders need to be removed or suppressed. Refer to the CALFIRE "Tree Training", "Tree Planting", and "Tree Quality" cue cards and "Tree and Plant Root Management Standard and Quality Expectations" contained in Section 5 of these Standards.
    6. Plants shall be removed from their containers only at the time of placement within the plant pit. Perform root pruning on all four sides of the root ball by shaving and cutting away the root ball periphery to reduce the amount of circling roots. Starting from the top and then cutting/slicing down to the

bottom of the root ball. On a 15 gal container at least 1-1.5 inches of the root ball periphery needs to be removed by slicing or shaving. On a 24” and 36”box tree at least 2 inches of the root ball periphery needs to be removed by slicing or shaving. A sharp hand pruning saw needs to be used for the slicing or shaving of the root ball. Refer to the CALFIRE "Root Management" cue card contained in Section 5 of these Standards. This process will remove many girdling and circling roots deflected by the container wall and allows for root penetration within the planting basin. Spread all roots to the side to allow proper root development. Add native backfill and amendments as shown in the Parks Construction Standards and as recommended by the soils testing laboratory.

7. Plant tree at least three inches (2”) above grade on mount to prevent bowl effect. The tree’s beginning root flare must be located at top of grade with installed sod.
8. Carefully place plant into the plant pit without damaging the root ball. Water the backfill until saturated.
9. Construct berm and place tree stakes and install mulch per the Parks Construction Standards. Mulch is required for trees within the turf area.
10. Where mowing will occur, provide an eight-foot (8’) minimum horizontal clearance between trees and other site improvements, including shrubs.
11. Tree ties should be installed via a figure eight loop and each tie shall be secured with a nail on the tree stake. Install two (2) Arbor Ties at 2/3 of tree height and two (2) Arbor Ties at ½ of tree height.
12. Trees less than 8' in height require an 8' stake. Trees 8' or greater in height require a 10' stake.
13. Tree stakes should be inserted into the ground to a minimum depth of 18".

B. Groundcover Planting
   1. Place groundcover plants in neat, straight, and parallel rows, triangularly spaced as shown on the Plans and as indicated herein.
   2. Start the first row of planting at a distance equal to the on-center spacing required per plan, minimum, from the edge of the adjacent hardscape, mow band or header board.
   3. Groundcover shall be installed to the outside edge of the water basins of trees or shrubs.

3.06 Turf Planting

(Hydroseeding for turf areas)

A. Lightly scarify areas to be hydroseeded.
B. Tank, hose and associated apparatus must be thoroughly clean and free of debris or other material prior to placement/spraying of seed.

C. Hydroseed turf mix shall contain the following:

Material	Application Rate
Turf Seed	Per Manufacturer's Recommendations
Wood Cellulose Fiber Mulch	60 lbs. per 1,000 SF
Binder	Per Manufacturer's Recommendation
Fungicide turf only	1/3 lb. per 1,000 SF
Fertilizer	Per soils lab recommendation and as approved by Parks, Recreation & Libraries Department
Soil Conditioner	Per Soil Conditioner soils lab recommendation and as approved by Parks, Recreation & Libraries Department

D. Blend mix in a hydraulic mixer until all material is consistently blended.
E. Apply mix at a rate of 125 pounds per 1,000 square feet unless otherwise recommended by the manufacturer.
F. Spray mixture consistently over the area to be hydroseeded. Protect adjacent areas such as paving, walls, play areas and other from overspray.
G. At the end of each day of spraying operations, clean up all areas where overspray has occurred.
H. Once seed is placed, it should not be allowed to dry out.

3.07 Mulch

A. Prior to placing mulch, apply post-emergent herbicide to any weeds present, per label directions.
B. Prior to placing mulch, apply pre-emergent herbicide in all planting areas, per label directions.
C. Apply three inches (3") of mulch in all landscape planter areas.
D. Keep mulch a minimum of three inches (3") away from the trunks of all woody shrubs and six inches (6") away from all trees. Taper mulch profile away from this point to prevent subsequent collection of mulch against trunks.

3.08 Watering

A. Upon completion of each planting or turf area, irrigate appropriately to ensure proper health and growth.
B. Continually adjust the irrigation for plant needs regardless of air temperature.

3.09 Clean-up

A. Upon completion of planting operations, collect and remove from site all empty plant containers, debris, rubbish and other trash.
B. Sweep clean and wash all hardscape areas.
C. Clean up shall occur, at minimum of once a week, at the end of the work week.
D. Maintain the entire site in a clean condition to the satisfaction of the City.

3.10 Pre-Final (Punch List) Review

A. See Section 011000 1.16 of the Summary of Work for notification process.

B. The following conditions must be met in order for planting to be considered towards substantial completion, as required to enter into the establishment period described in Section 011000, 1.16:

1. For seeded turf:
    a. Upon completion of the second mowing of completely germinated turf. Second mowing is defined as full coverage of turfed area 90% weed free.
    b. Root depth – Turf grass roots shall be healthy, creamy-white in color and be 4” or greater in length/depth as measured from the soil surface to root tip. This shall be consistent throughout turfed area.
    c. Turf shall be of uniform green color with no visible signs of stress due to soil fertility, moisture, disease or pests.
2.
3. For trees and shrubs:
    a. Trees and shrubs shall be properly installed, and with no visible signs of stress due to soil fertility, moisture, disease or pests.

3.11 Establishment Period

A. Active maintenance is required throughout the entire establishment period:

1. Maintain turf to a height of two and one half inches (2-1/2”) for cool season turf varieties and one and one half inches (1-1/2”) for warm season turf varieties. Maintained height shall be measured from the surface of finish grade to the top of the leaf blade throughout the establishment period, and mowed as frequently as required to maintain said height. At no time shall the leaf blade be mowed or cut more than 1/3 of the length of the blade. Root mass/depth must remain consistent as measured at the start of establishment or greater.
2. Edge all turf areas along hardscape edges.
3. Re-seed all bare areas within the turf as soon as evident.
4. Immediately replace all dead plants.
5. As necessary, raise all trees and shrubs which have sunk within the plant pit beyond the levels indicated in the Standard details.
6. Keep all areas free of weeds, pests and disease.
7. For trees located in turf areas, maintain a circle free of turf at a distance described in the Standard details

B. Prior to the start of the final thirty (30) days of establishment:

1. All plant replacements shall be completed.
2. All plantings and turf shall be thriving and in a healthy condition.

3. The lack of active maintenance prior to the final thirty (30) days may constitute a delay in the start of the final thirty (30) days of the establishment period.

3.12 Final Review

A. The Inspector shall review the site for completion of items noted, but not limited to, “B” below. All corrective action is required to enter into the final thirty (30) days of establishment.
B. The site shall be prepared for review, by ensuring that:
   1. All spray heads have been properly adjusted,
   2. Dead plants have been replaced,
   3. Planting areas have been weeded,
   4. Turf areas have full germination, are consistent in green color and are weed-free,
   5. Walkways and paved areas have been swept and washed, and
   6. Turf roots meet standards outlined in 3.10
C. Failure to complete any one or all of the above items may constitute non-performance of the final review and will require re-scheduling. In this case, the cost of the extended establishment period shall be at no additional cost to the City.

PART 4 - GUARANTEE

4.01 General

A. Contractor shall provide a written guarantee covering all plant materials (trees & shrubs) furnished by him to be free of all defects or disease and that all plants are in a healthy and thriving condition at the completion of the contract. Deciduous plant material shall be warranted beyond the time of contract completion until such time as growth becomes evident.
B. All plants, except those provided by the City, shall be warranted for a period of one (1) year, commencing on the date of final acceptance. The warrantee shall be as outlined in Section 011000: Summary of Work, paragraph 1.19.

END OF SECTION

SECTION 33 00 00
UTILITIES

PART 1 - GENERAL

1.01 General Requirements

A. The requirements set forth in the General Conditions shall be in addition to the standards provided herein.

B. The requirements set forth in the Supplemental Conditions shall be in addition to the standards provided herein.

C. The standards set forth in the City of Roseville Design and Construction Standards, latest edition, for storm drainage throughout the project and for sanitary sewer installations within the public rights-of-ways, easements, or as shown on the improvement plans shall be in addition to the standards provided herein.

D. The standards set forth in the latest edition of the California Building Code (CBC) for sanitary sewer installation within the project site, outside of the public right-of-way or easement shall be in addition to the standards provided herein.

1.02 Description

A. Furnish all labor, materials and equipment for the complete installation of the storm drain system and sanitary sewer pipe, and necessary appurtenances as shown on the Plans and as specified herein.

B. Submit a materials listing for review and approval prior to commencement of specified work.

1.03 Related Work

A. Section 31 10 00: Clearing and Grubbing

B. Section 31 20 00: Earthwork

1.04 Safety Requirements

A. Furnish, install and maintain required sheeting, shoring, bracing, and other methods to ensure complete and safe work environment for all workers. Upon completion of work, remove all bracing, shoring, etc. in its entirety, unless otherwise directed by the Inspector.

B. Prior to excavation or trenching, the Contractor shall contact USA Alert (800) 227-2600 to locate all known utilities a minimum of 48 hours prior to start of work. During the course of construction, the Contractor shall take every precaution to maintain and protect utilities noted to remain. Said utilities shall remain operational at all times, unless otherwise noted on the plans.

C. The existing utilities are shown on the Plans based on the information available at the time of contract document development. The City shall not assume responsibility for any inaccuracies or incompleteness of the Plans based on such information. The Contractor shall immediately notify, upon damage of any pipeline or facility, the Owner and/or its agents and take every action necessary to repair or replace damaged facilities to the satisfaction of the Inspector, and at no additional cost to the City.
D. Trenches, excavations and repair of pavement shall be consistent with Section 31 20 00: Earthwork.

1.05 Coordination

A. The piping system as shown on the Plans is diagrammatic. The Contractor shall make reasonable adjustments to the layout to avoid conflicts, based on actual field conditions. Said changes shall not interfere with the design intent of the system.

1.06 Tolerance

A. The allowable tolerance for the installation of pipe is 0.05 feet within grades or spot elevations indicated on the Plans.

1.07 Product Storage

A. Take every precaution to protect the materials and pipes from damage during the delivery, storage and installation of the pipe system. Store in a cool, contained area, protected from direct sunlight and per manufacturer's recommendations. Pipe shall be supported on firm level ground at the site.

1.08 Record Drawings

A. The Contractor shall keep an accurate record of the as-built conditions of the storm drain and sanitary sewer system. These records shall be updated daily and kept at the construction site. At any time, the Inspector may examine the conditions of the "as-builts" to ensure compliance of the above.

PART 2 - PRODUCTS

2.01 General

A. All products shall conform to City of Roseville Design and Construction Standards, latest edition, except as noted below.

2.02 Drain Pipe

A. Solid drainpipe shall be PVC SDR 35 and shall conform to ASTM D3034, or accepted equal. Gasketed connections shall conform to ASTM F477.

2.03 Drain Rock

A. Drain rock shall be Class 2 washed, ¾" diameter.

2.04 Filter Fabric

A. Filter fabric shall be MiraDRAIN 5000, or accepted equal.

2.05 Drains

A. Drain Inlets shall be pre-cast and a minimum size of twenty-four inches (24") square or round by Jensen Precast, or accepted equal.
   1. Grate shall be heavy duty, cast iron, walk-on, and bolt down.
   2. Box extensions shall be Jensen Precast, or accepted equal.
   3. The base shall be six inches (6") thick.
   4. Walls shall be six inches (6") thick.
   5. A "No Dumping" Metal Storm Drain Marker shall be affixed to the concrete color of each drain inlet (See Detail DR-20)
   6. Contractor may install cast-in-place drain inlets in lieu of pre-cast drain inlets. Submit shop drawings and concrete mix design for review and approval.

B. Sanitary sewer clean outs shall be as specified in the City of Roseville, Design and Construction Standards, latest edition.

2.06 Manholes

A. Manholes shall have tongue and groove joints, be forty-eight inches (48") minimum in diameter, meeting ASTM C-478.

B. Covers shall be cast iron.

C. All components shall conform to the City of Roseville Design and Construction Standards, latest edition.

2.07 Tracer Wire

A. Insulated solid copper wire, minimum #12 gauge. Color shall be green.

2.08 Vitrified Clay Pipe

A. Vitrified clay pipe (VCP) shall be as specified in Section 91 Sanitary Sewer in the City of Roseville, Design and Construction Standards, latest edition.

2.09 Potable Water Warning Tape

A. On sites with both Recycled water and potable water lines. Blue plastic tape, 3 inches wide, with the words "CAUTION: POTABLE WATERLINE" imprinted in minimum 1-inch high, black letters. Imprinting shall be continuous and permanent.

2.10 Potable Water PVC Pipe and Fittings

A. 1 inch thru 3 inch PVC Pipe

1. Pipe: ASTM D1785, Schedule 40
2. Joints: Restrain with solvent cement. Do not use threaded pipe
3. Solvent Cement: ASTM D2564

B. 4 inches or larger PVC Pipe
1. Pipe: AWWA C900 DR 14.
2. Fittings: Ductile iron AWWA C110 or C153.
3. Joints: Push on bell and spigot joint per AWWA C900.

PART 3 - EXECUTION

3.01 General

A. All pipes shall slope uniformly from given elevations shown on the Plans.
B. All pipes shall be accurately laid true to line and grade, utilizing accepted construction methods.
C. Damaged or cracked pipe and fittings shall not be installed and shall be removed from site.
D. Install all pipe in locations shown on the Plans, except where existing conditions necessitate minor changes.
E. All pipe and fittings shall be kept clean and closed throughout the course of construction.
F. Do not drop or dump pipe, fittings, valves, or any other water line material into trenches.
G. Connections to existing sanitary sewer stubs shall be “TV-ed” and air tested prior to the start of construction per the City of Roseville Design and Construction Standards, latest edition.

3.02 Installation

A. Installation of the specified pipe lines shall conform to the City of Roseville Design and Construction Standards, latest edition.
B. Notify the Inspector a minimum of 48 hours prior to covering of work to ensure timely inspections.
C. Cutting of AC or concrete paving shall be clean, vertical and straight, using a saw, or other tool specific to this application. Replace paving to existing or better condition prior to work.
D. Trench and backfill shall be per City of Roseville Design and Construction Standards, latest edition.
E. Catch basins and drain inlets shall be installed with a concrete collar with “No Dumping” message and fish symbol depressed into the concrete or bolted in place, consistent with Drawing DR-20 the City of Roseville Design and Construction Standards, latest edition.

F. Drain inlets installed in mulched planter areas shall have a 12-inch wide collar of 2- to 6-inch river cobble placed over filter fabric.
G. Drain inlets at drinking fountains shall be located under jug filler and connected to storm drain per local codes.
H. Manholes shall be per City of Roseville Design and Construction Standards, latest edition. Install grate flush with finish grade.
I. Sanitary Sewer Clean-outs shall be installed with 3M ball markers and shall be located within planted or turf areas, whenever possible. Place clean-outs at 100' intervals throughout the project. Clean-outs shall not be located within play areas. Install per City of Roseville Design and Construction Standards, latest edition.
J. Upon completion, thoroughly flush storm drain system in the presence of the Parks Inspector.

3.03 Tracer Wire

A. Install tracer wire on top of the potable water lines
B. Tracer wire shall be continuous with no splices.
C. Attach wire to top of pipe in such manner that it will not be displaced during construction operations.
D. Form a mechanically and electrically continuous line throughout the pipeline, extending to the nearest valve or other pipeline appurtenance. Extend the wire up the outside of the valve box/riser and cut a hole that is eight inches from the top, extend a twelve inch wire lead to the inside of the box. At other pipeline appurtenances, terminate the twelve inch wire lead inside the enclosure.

3.04 Warning Tape

A. Install tape approximately one foot above and along the centerline of the pipe.
B. Where tape is not continuous, lap tape ends a minimum of two feet.

3.05 Potable Water Warning Tape

A. To be used on all potable water piping installed within the same project limits as on-site recycled water piping.
B. Install plastic warning tape in pipe backfill, six inches above pipe, for the entire length of the pipe.

3.06 Cleaning

A. Keep site clean at all times. Remove from the site all debris and rubbish and legally dispose.

END OF SECTION

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DRAWINGS

Project: Electric Landscape Improvements- Fiddyment Substation

DRAW

CONSTRUCTION PLANS FOR

FIDDYMENT SUBSTATION

CITY OF ROSEVILLE, CA

NOVEMBER 13, 2020

PROJECT ADDRESS:

CITY OF ROSEVILLE
ROSEVILLE ELECTRIC
6821 FIDDYMENT RD.
ROSEVILLE, CA 95747

OWNER:

CITY OF ROSEVILLE
311 VERNON STREET
ROSEVILLE, CA 95678

PROJECT DIRECTORY:

LANDSCAPE ARCHITECT & PRIME CONSULTANT :

SCHMIDT DESIGN GROUP, INC.
1310 ROSECRANS ST, SUITE G
SAN DIEGO, CA 92106
619-236-1462
619-236-8792 FAX
CONTACT: JEFF JUSTUS, PRINCIPAL
email: jjustus@schmidtdesign.com

LINDSAY DECEAULT, PROJECT MANAGER
email: ldeceault@schmidtdesign.com

ELECTRICAL ENGINEER:

HARRY A. YEE ASSOCIATES, INC. (HYA)
4920 FREEPORT BLVD., SUITE D
SACRAMENTO, CA 95822
916-454-4117
CONTACT: TOM YU
email: tom@hyaengineers.com

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LANDSCAPE DEMOLITION PLAN	LD-1.1
LANDSCAPE GRADING PLAN	LG-1.0
LANDSCAPE CONSTRUCTION & PLANTING PLAN	LC-1.0
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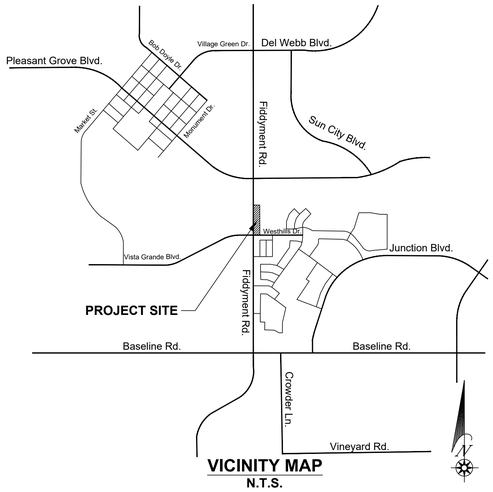
IRRIGATION SPECIFICATIONS	LC-3.2
PLANTNG SPECIFICATIONS	LC-3.3



VICINITY MAP
N.T.S.

DECLARATION OF RESPONSIBLE CHARGE:

I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF THE PROJECT DRAWINGS AND SPECIFICATIONS IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS THE LANDSCAPE ARCHITECT OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

SIGNATURE *DATE*

11/13/2020

JEFF J. JUSTUS
REGISTRATION NO. 4028

APPLICABLE STANDARD DRAWINGS & SPECIFICATIONS:

CITY OF ROSEVILLE, PARKS DESIGN AND CONSTRUCTION STANDARDS.

CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS.

DISABLED ACCESS REGULATIONS, TITLE 24, (2010 ADA STANDARDS BASED UPON THE 2004 ADAAG) AND CALIFORNIA STATE ACCESSIBILITY STANDARDS INTERPRETIVE MANUAL (CURRENT REVISION) PREPARED BY THE OFFICE OF THE STATE ARCHITECT AND DEPARTMENT OF REHABILITATION.

2018 CALIFORNIA BUILDING CODE

AMERICANS WITH DISABILITIES ACT REGULATION: ADA/ABA (THE AMERICANS WITH DISABILITIES ACT AND ARCHITECTURAL BARRIERS ACT) ISSUED BY THE ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD (CURRENT EDITION).

NOTE:
LATEST EDITIONS OF THE PRECEDING SPECIFICATIONS AND DRAWINGS SHOULD BE USED. WHERE ONE OR MORE SETS OF SPECIFICATIONS ARE APPLICABLE, THE MORE RESTRICTIVE WILL TAKE PRECEDENCE.

INSPECTION STAGES:

IN ADDITION TO THE INSPECTOR, LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE TO BE PRESENT AT THE FOLLOWING INSPECTION STAGES:

1. PRE-CONSTRUCTION MEETING.
2. ROUGH GRADING AND DRAINAGE.
3. HARDSCAPE AT TIME OF FINISHED STAKING AND LAYOUT.
4. FINISH GRADING AND SOIL PREPARATION.
5. IRRIGATION INSTALLATION AND TESTING.
6. LANDSCAPE PLANTING.
7. PROJECT CONSTRUCTION 90% COMPLETE (DEVELOP PUNCH LIST AND SUBMIT RED-LINE AS BUILT).
8. FINAL WALK-THROUGH, ACCEPTANCE BY THE OWNER (CONTRACTOR TO SUBMIT FINAL APPROVED AS-BUILTS TO THE OWNER).

APPLICABLE BUILDING DESIGN CODES:

THE CITY OF ROSEVILLE HAS ADOPTED AND ENFORCES THE FOLLOWING BUILDING DESIGN CODES:

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC);
- 2019 CALIFORNIA BUILDING CODE (CBC);
- 2019 CALIFORNIA HISTORIC BUILDING CODE (CHBC);
- 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC);
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC);
- 2019 CALIFORNIA MECHANICAL CODE (CMC);
- 2019 CALIFORNIA PLUMBING CODE (CPC);
- 2019 CALIFORNIA ELECTRICAL CODE (CEC);
- 2019 CALIFORNIA ENERGY CODE (CEC PART 6);
- 2019 CALIFORNIA FIRE CODE WITH CITY OF ROSEVILLE AMENDMENTS (RFC);
- ROSEVILLE MUNICIPAL CODE (RMC).

BENCHMARK NO. CITY BM 125 ELEV. 124.455

3-1/4" BRASS DISK STAMPED AUGUST 2014
LS 7331 LOCATED ON THE SOUTH SIDE OF
PLEASANT GROVE BLVD. APPROXIMATELY 300
FEET EAST OF THE CENTERLINE OF FIDDYMENT
ROAD AT THE TOP OF CURB WITHIN THE BUS
TURNOUT IN FRONT OF THE BUS SHELTER PAD.

A.P.N. 017-162-005

BENCHMARK NO. CITY OF ROSEVILLE BM 125 ELEV. 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2014 LS 7331
LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD
APPROXIMATELY 300 FEET EAST OF THE CENTERLINE OF
FIDDYMENT ROAD AT THE TOP OF CURB WITHIN THE BUS
TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: N/A
JOB NO. 19-106

AGENCY APPROVAL

REVISION NO.	DATE	BY	DATE

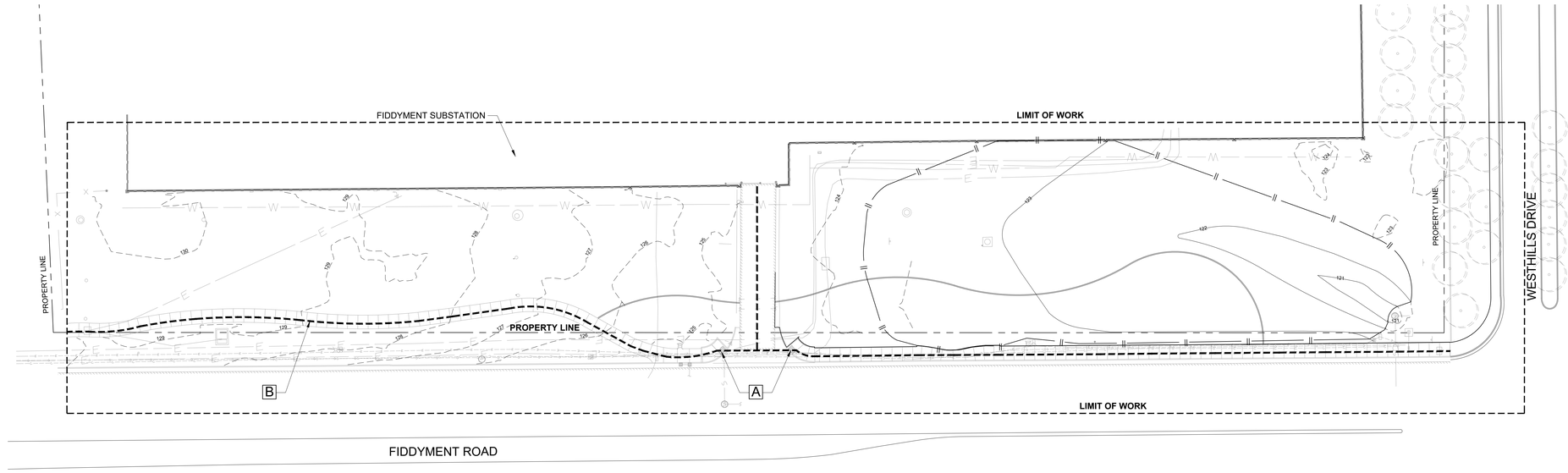
DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/30/2020

SCHMIDT DESIGN GROUP
1310 Rosecrans St., Suite G, San Diego, CA 92106
619.236.1462
LIC. CA 2388 | NV 797 | AZ 34139
SCHMIDTDESIGN.COM

TITLE SHEET

IMPROVEMENT PLANS FOR:
ROSEVILLE FIDDYMENT SUBSTATION
6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.
T-1.0



SCOPE OF WORK:

NEW LANDSCAPE AND IRRIGATION FOR THE FRONTAGE OF THE FIDDYMENT SUBSTATION ALONG FIDDYMENT ROAD.

ACCESSIBLE 'PATH OF TRAVEL' LEGEND:

A EXISTING CURB RAMPS WITH TRUNCATED DOMES TO REMAIN

B ACCESSIBLE PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL NOTES:

1. EXISTING SITE WALKWAYS AND DRIVEWAYS PROVIDE A CONTINUOUS UNOBSTRUCTED ACCESSIBLE ROUTE OF TRAVEL CONNECTION THAT CAN BE NEGOTIATED BY A PERSON WITH A SEVER DISABILITY USING A WHEELCHAIR, AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES.

2. SITE DEVELOPMENT AND GRADING HAS BEEN DESIGNED TO MAINTAIN ACCESS TO ALL ENTRANCES AND NORMAL PATHS OF TRAVEL, AND WHERE NECESSARY THE DESIGN SHALL INCORPORATE PEDESTRIAN RAMPS, CURB RAMPS, ZERO CURB, ETC. TO PROVIDE ACCESS CONSISTENT WITH DEFINITION OF ACCESSIBLE ROUTE OF TRAVEL PER TITLE 24, SECTION 11B-206.

ACCESSIBILITY NOTES:

SITE PLAN REQUIREMENTS
1. SITE TO COMPLY WITH TITLE 24, SECTION 11B-206.2.1, 11B-206.2.2, 11B-206.3, 11B-206.4, 11B-216.6, 11B-703.4.1, AND 11B-703.4.2.

ACCESSIBLE PARKING SPACES
1. SITE HAS NO ON-SITE PARKING SPACE OR OFFSITE PARKING

CURB RAMPS
1. PURSUANT TO SECTION 11B-406.5.1, DETECTABLE WARNINGS, EXTENDING THE FULL WIDTH AND DEPTH OF THE CURB RAMP, INSIDE THE GROOVED BORDER ARE TO BE INSTALLED. DETECTABLE WARNINGS ARE TO CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9" AT THE BASE, TAPERING TO 0.454" AT THE TOP. SPACING OF THE DOMES SHALL BE 2.35" ON CENTER.

WALKS AND SIDEWALKS
1. EXISTING ONSITE WALKS DO NOT EXCEED 1:20 (5%).
2. WALKS ALONG AN ACCESSIBLE ROUTE OF TRAVEL ARE >48" WIDTH AND HAVE SLIP RESISTANT SURFACES. THE MAXIMUM PERMITTED CROSS SLOPE FOR THE ACCESSIBLE ROUTE OF TRAVEL SHALL BE ≤ ¼" PER FOOT (SECTION 11B-403.3.)
3. ANY ABRUPT LEVEL CHANGES WILL BE <1/2" ALONG ANY ACCESSIBLE ROUTE OF TRAVEL. WHEN CHANGES OCCUR, THEY SHALL BE BEVELED WITH A SLOPE OF ≤1:12. LEVEL CHANGES OF ≤1/4" MAY BE VERTICAL.
4. HEADROOM OF >80" IS PROVIDED FROM AL WALKWAY SURFACES TO OBSTRUCTIONS PER SECTION 11B-307.4.
5. PLANS DEPICT THAT A LEVEL 60" X 60" LEVEL AREA IS PROVIDED AT AREAS WHERE DOORS (OR GATE) SWINGS TOWARD THE ACCESSIBLE ROUTE OF TRAVEL, PER SECTION 11B-403.7. WALK EXTENDS >24" BEYOND THE STRIKE EDGE OF ANY DOOR (OR GATE) THAT SWINGS TOWARD THE WALK.
6. WALKWAYS WITH CONTINUOUS GRADIENT SHALL PROVIDE A LEVEL AREA >5'0" LONG AT INTERVALS OF 400'0" MAXIMUM, PER SECTION 11B-403.7.

ENTRANCES AND CIRCULATION
1. ALL ENTRANCES TO SITE ARE ACCESSIBLE PER SECTION 11B-206.4.
2. ACCESSIBLE ROUTES OF TRAVEL ARE DEPICTED ON THE ACCESSIBLE ROUTE OF TRAVEL EXHIBIT.

EXTERIOR STAIRWAYS AND HANDRAILS
1. NO EXTERIOR STAIRWAYS ARE PROPOSED FOR THE PROJECT

SPECIAL HAZARDS
1. WHERE WALKS CROSS, OR ADJOIN A VEHICULAR WAY AND WALKING SURFACES ARE NOT SEPARATED BY CURBS OR OTHER ELEMENTS, PER SECTION 11B-705.1.2.5, A CONTINUOUS DETECTABLE WARNING WITH THE FOLLOWING CRITERIA SHALL BE PROVIDED: ≥36" WIDTH AND A SURFACE OF RAISED TRUNCATED DOMES IN A STAGGERED PATTERN WITH A DIAMETER OF NOMINAL 0.9" AT THE BASE, TAPERING TO 0.45" AT TOP, HEIGHT OF 0.2", AND NOMINAL ON CENTER SPACING OF 2.35".

COUNTERS AND TABLES
1. NO SEATING OR TABLES ARE PROPOSED FOR THE PROJECT

A.P.N. 017-162-005

BENCHMARK NO.: CITY OF ROSEVILLE BM 135 ELEV.: 124.455
3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7331
LOCATED ON THE SOUTH SIDE OF FLEASANT GROVE BLVD
APPROXIMATELY 300 FEET EAST OF THE CENTERLINE OF
FIDDYMENT RD, 4 FEET SOUTH OF THE SOUTH WING WALL
TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: N/A
JOB NO. 19-106

AGENCY APPROVAL	BY	DATE

REVISION	NO.	DATE

DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/3/2020

SCHMIDT DESIGN GROUP
1310 Bowersox St., Suite G San Diego, CA 92106
619.234.1462
LIC. CA 2381 | NV 279 | AZ 34039
SCHMIDTDESIGNGROUP.COM

ACCESSIBLE PATH OF TRAVEL

IMPROVEMENT PLANS FOR:
ROSEVILLE FIDDYMENT SUBSTATION
6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.
T-1.1

DEMOLITION NOTES:

1. SUMMARY

   A. CLEAR AND GRUB THE PROJECT SITE PRIOR TO CONSTRUCTION, AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER PREPARATION OF THE SITE.
   B. LOCATION AND ELEVATION OF ALL EXISTING IMPROVEMENTS WITHIN THE AREA OF WORK SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.

2. QUALITY ASSURANCE

   A. USE ADEQUATE NUMBERS OF SKILLED WORKPEOPLE WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIC REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS SECTION.
   B. NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE THEREFORE.

3. PROJECT CONDITIONS

   A. TRAFFIC: CONDUCT SITE PREPARATION WORK TO ENSURE MINIMUM INTERFERENCE WITH EXISTING ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT EXISTING STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION.
   B. COMPLETE THE CLEARING AND SITE PREPARATION WORK BEFORE STARTING EARTHWORK. ERECT TEMPORARY BARRICADES, ENCLOSURES, AND PROTECTION OF ADJACENT PROPERTY AND EXISTING WORK BEFORE STARTING SITE CLEARING WORK.
   C. INSPECT AND REVIEW THE PROJECT SITE TO DETERMINE EXISTING CONDITIONS WHICH AFFECT CONSTRUCTION OPERATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATED ALL SUBSTRUCTURES, WHETHER SHOWN HEREON OR NOT, AND PROTECT THEM FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ALL EXISTING IRRIGATION LATERALS, HEADS, AND MAINLINES DISTURBED WITHIN CONSTRUCTION LIMIT LINES SHALL BE ADJUSTED TO NEW CONSTRUCTION. AFFECTED IRRIGATION ZONES SHALL BE SHUT OFF WITHIN AREAS OF DISTURBANCE. ALL CONSTRUCTION IN THESE AREAS SHALL BE COMPLETED IN A TIMELY FASHION TO PREVENT EXISTING VEGETATION FROM STRESS, WILT, OR DYING.
   D. PROTECT EXISTING SITE WALLS AND PROTECT IDENTITY SIGNAGE.

4. SITE CLEARING

   A. CLEAR THE PROJECT SITE OF ALL EXISTING TREES AND SHRUBS OFF-SITE TO A LEGAL DISPOSAL AREA.
   B. REMOVE EXISTING WORK AND ITEMS WHICH ARE REQUIRED TO BE REMOVE DIN SUCH MANNER THAT MINIMUM DAMAGE AND DISTURBANCE IS CAUSED TO ADJACENT AND CONNECTING WORK. CONTRACTOR SHALL REPAIR AT HIS/HER OWN EXPENSE ANY DAMAGES MADE TO EXISTING IMPROVEMENTS DURING MOBILIZATION, CONSTRUCTION OR THE ESTABLISHMENT PERIOD.

5. DISPOSITION OF MATERIALS

   A. REMOVE MATERIAL EXCEPT THOSE ITEMS INDICATED TO BE RE-USED TO A LEGAL DISPOSAL AREA.
   B. STOCKPILING OF REMOVED MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE RESIDENT ENGINEER OR OWNER'S REPRESENTATIVE.

6. NOISE ABATEMENT AND DUST PALLIATION

   A. NOISE ABATEMENT: LIMIT NOISE TO A REASONABLE LEVEL AS RELATED TO SPECIFIC ITEMS OF EQUIPMENT USED AND THEIR HOURS OF USE. THIS DOES NOT PRECLUDE USE OF MECHANICAL EQUIPMENT, SUCH AS JACK HAMMERS, POWER DRIVEN FASTENERS, OTHER APPROVED EQUIPMENT.
   B. DUST PALLIATION: DURING SITE CLEARING, KEEP DUST, DIRT, AND POLLEN FROM BLOWING OR SPREADING BY WATERING DOWN AT REGULAR INTERVALS.

7. PROTECTION OF PERSONS AND PROPERTY

   A. BARRICADE OPEN DEPRESSIONS AND HOLES OCCURRING AS PART OF THIS WORK, AND POST WARNING LIGHTS ON PROPERTY ADJACENT TO OR WITH PUBLIC ACCESS.
   B. OPERATE WARNING LIGHTS DURING HOURS FROM DUSK TO DAWN EACH DAY AND AS OTHERWISE REQUIRED.
   C. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY OPERATIONS UNDER THIS SECTION.
   D. CONTRACTOR TO PROVIDE A SIX FOOT TEMPORARY CHAIN LINK CONSTRUCTION FENCE, GATE, AND CONSTRUCTION SIGNS AROUND LIMIT OF WORK LINE DURING CONSTRUCTION. LOCATION OF FENCING SHALL BE APPROVED BY THE RESIDENT ENGINEER. STABILIZE TEMPORARY FENCE WITH SAND BAGS OR OTHER SUPPLIER APPROVED METHOD. EXISTING RESIDENTIAL FENCING MAY BE USED IN PLACE TO SECURE THE PERIMETER OF WORK SITE.

8. UTILITIES

   A. COORDINATE WITH UTILITY COMPANIES AND AGENCIES AS REQUIRED. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
   B. WHERE UTILITY CUTTING, CAPPING, OR PLUGGING IS REQUIRED, PERFORM SUCH WORK IN ACCORDANCE WITH REQUIREMENTS OF THE UTILITY, COMPANY OR GOVERNMENTAL AGENCY HAVING JURISDICTION.
   C. BEFORE EXCAVATION, VERIFY THE LOCATION OF UNDERGROUND UTILITIES AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL REQUEST MARKOUT OF UNDERGROUND UTILITIES BY CALLING THE BELOW LISTED REGIONAL NOTIFICATION CENTER FOR AN INQUIRY IDENTIFICATION NUMBER:
   UNDERGROUND SERVICE ALERT.....(800) 227-2600
   CABLE TELEVISION: COMCAST CABLE.....(916) 830-6757
   GAS: PG&E.....(530) 889-3134
   TELEPHONE: ROSEVILLE TELEPHONE.....(916) 786-4591
   ELECTRIC: ROSEVILLE ELECTRIC.....(916) 774-5691
   WATER: CITY OF ROSEVILLE.....(916) 774-5750
   SEWER: CITY OF ROSEVILLE.....(916) 774-5750
   DRAINAGE: DEVELOPMENT SERVICES.....(916) 774-5339

GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS AND THE LATEST EDITION AND AMENDMENTS OF THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS.
2. THE CITY OF ROSEVILLE IS A MEMBER OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE-CALL SYSTEM. THE CONTRACTORS SHALL NOTIFY THE U.S.A. CENTER 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING 1-800-227-2600.
3. THE CONTRACTOR SHALL MARK IN WHITE PAINT ALL AREAS TO BE EXCAVATED PRIOR TO CONTACTING U.S.A. ANY AREAS NOT MARKED WILL NOT BE SUBJECT TO U.S.A., AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM EXCAVATION.
4. THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION OF THE NEW IMPROVEMENTS CONNECTING TO OR IN THE VICINITY OF THE SAME.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS ON THE JOB SITE.
6. THE CONTRACTOR SHALL PLACE BOXED SURVEY MONUMENTS WITH 1-1/2" BRONZE HEAD SET IN CONCRETE (STD. DWG. ST-36) AT LOCATIONS SHOWN ON THESE PLANS.
7. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN THAT SHALL BE ACCEPTED BY THE ENGINEERING DIVISION OF PUBLIC WORKS BEFORE START OF WORK IN RIGHT-OF-WAY AND SHALL BE IN ACCORDANCE WITH CALIFORNIA MUTCD LATEST EDITION. AT LEAST ONE LANE IN EACH DIRECTION SHALL REMAIN OPEN TO TRAFFIC UNLESS OTHERWISE SHOWN ON THE PLANS. TRAFFIC CONTROL HOURS ARE SUBJECT TO LIMITATION BY THE CITY. TRAFFIC CONTROL WITH LANE CLOSURES THAT AFFECT TRAFFIC FLOW MAY REQUIRE NIGHT WORK. IF, AS A PART OF TRAFFIC CONTROL MEASURES, A ROADWAY CLOSURE HAS BEEN APPROVED, THE CONTRACTOR SHALL NOTIFY DEVELOPMENT SERVICES CONSTRUCTION INSPECTOR 72 HOURS IN ADVANCE OF SETTING UP THIS CLOSURE.
8. CURB RAMPS CONFORMING TO ALL ADA AND TITLE 24 REQUIREMENTS SHALL BE PLACED AT ALL NEW STANDARD CURB RETURNS (STANDARD DRAWING ST-27) AND STANDARD TYPE A-7 DRIVEWAYS. WHERE EXISITING RAMPS DO NOT MEET CURRENT ADA AND TITLE 24 REQUIREMENTS, THE RAMPS SHALL BE UPGRADED IN CONFORMANCE WITH MINIMUM TITLE 24 REQUIREMENTS. WHERE EXISTING RAMPS DO NOT INCLUDE DETECTABLE WARNING PANELS (TRUNCATED DOMES), PANELS SHALL BE RETROFITTED PER THE CONSTRUCTION STANDARDS.
9. DRAIN INLETS NOT WITHIN A PAVED AREA SHALL HAVE A 12" WIDE COLLAR OF 6" THICK P.C.C. OR 2" THICK A.C.
10. PRIOR TO THE CERTIFICATE OF COMPLETION ON ALL SINGLE-FAMILY RESIDENTIAL SUBDIVISIONS, THE DEVELOPER SHALL SUBMIT A LETTER FROM THE POST OFFICE STATING THAT ITS REQUIREMENTS FOR MAILBOX CLUSTER PADS HAVE BEEN SATISFIED.
11. ALL UNDERGROUND UTILITIES WITHIN EXISTING OR PROPOSED CITY OF ROSEVILLE EASEMENTS SHALL REQUIRE A MINIMUM OF 90% COMPACTION ON THE TRENCH BACKFILL. COMPACTION OF BACKFILL BY JETTING IS NOT PERMITTED IN CITY OF ROSEVILLE RIGHT OF WAY AND EASEMENT AREAS OR WITHIN DEDICATED RECLAIMED WATER, STORM, SEWER OR WATER EASEMENTS AND MAINS.
12. PRIOR TO EXCAVATION OF TRENCHES 5 FEET OR DEEPER, THE CONTRACTOR SHALL SUBMIT TO THE DEVELOPMENT SERVICES DEPARTMENT OR ENVIRONMENTAL UTILITIES DEPARTMENT INSPECTOR A COPY OF THE COMPANY'S ANNUAL CALOSHA TRENCHING PERMIT AND A COPY OF THE COMPANY'S LETTER INFORMING CALOSHA OF THE TIME THE TRENCHING IS COMMENCING AND THE LOCATION OF THE WORK.
13. THE DEVELOPERS CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT EXISTING SITE AND ADJACENT IMPROVEMENTS FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR MAKE REPLACEMENT OF ALL CRACKED AND OTHERWISE PRE-EXISTING DAMAGED PUBLIC IMPROVEMENTS ALONG THE FRONTAGE OF THE PROJECT SITE AND ANY DAMAGE RESULTING FROM CONSTRUCTION TO CURRENT CITY STANDARDS AND AT THEIR OWN EXPENSE. THE EXTENT OF THE REPAIRS SHALL BE DETERMINED BY THE DEVELOPMENT SERVICES CONSTRUCTION INSPECTOR AND SHALL BE COMPLETED PRIOR TO THE CITY ACCEPTANCE OF THE IMPROVEMENTS.
14. ALL PUBLICLY MAINTAINED STORM DRAIN ON PRIVATE PROPERTY SHALL BE A MINIMUM OF 12 INCHES IN DIAMETER AND SHALL BE RCP CL IV, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

AIR QUALITY NOTES:

THE FOLLOWING NOTES ARE PROVIDED AS REFERENCE TO APPLICABLE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT ADOPTED RULES AND REGULATIONS. COMPLIANCE WITH ALL APPLICABLE APCD RULES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. AIR QUALITY RULES ARE ENFORCED SOLELY BY THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT.

1. CONSTRUCTION EQUIPMENT EXHAUST EMISSIONS SHALL NOT EXCEED PLACER COUNTY APCD RULE 202 VISIBLE EMISSION LIMITATIONS. OPERATORS OF VEHICLES AND EQUIPMENT FOUND TO EXCEED OPACITY LIMITS ARE TO BE IMMEDIATELY NOTIFIED BY APCD TO CEASE OPERATIONS AND THE EQUIPMENT MUST BE REPAIRED WITHIN 72 HOURS. *(BASED ON APCD RULE 202)*
2. THE CONTRACTOR SHALL SUSPEND ALL GRADING OPERATIONS WHEN FUGITIVE DUST EXCEEDS PLACER COUNTY APCD RULE 228 (FUGITIVE DUST) LIMITATIONS. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN INDIVIDUAL WHO IS CARB-CERTIFIED TO PERFORM VISIBLE EMISSIONS EVALUATIONS (VEE). THIS INDIVIDUAL SHALL EVALUATE COMPLIANCE WITH RULE 228 ON A WEEKLY BASIS. IT IS TO BE NOTED THAT FUGITIVE DUST IS NOT TO EXCEED 40% OPACITY AND NOT GO BEYOND THE PROPERTY BOUNDARY AT ANY TIME. LIME OR OTHER DRYING AGENTS UTILIZED TO DRY OUT WET GRADING AREAS SHALL NOT EXCEED PLACER COUNTY APCD RULE 228 FUGITIVE DUST LIMITATIONS. OPERATORS OF VEHICLES AND EQUIPMENT FOUND TO EXCEED OPACITY LIMITS WILL BE NOTIFIED BY APCD AND THE EQUIPMENT MUST BE REPAIRED WITHIN 72 HOURS. ALL PROJECTS IN EXCESS OF 5 ACRES SHALL HAVE AN APPROVED DUST CONTROL PLAN FROM THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT. *(BASED ON APCD RULE 228)*
3. DURING CONSTRUCTION, TRAFFIC SPEEDS ON ALL UNPAVED SURFACES SHALL BE LIMITED TO 15 MILES PER HOUR OR LESS. *(BASED ON APCD RULE 228 / SECTION 401.2)*
4. DURING CONSTRUCTION, NO OPEN BURNING OF REMOVED VEGETATION SHALL BE ALLOWED UNLESS PERMITTED BY THE PCAPCD. ALL REMOVED VEGETATIVE MATERIAL SHALL BE EITHER CHIPPED ON SITE OR TAKEN TO AN APPROPRIATE RECYCLING SITE, OR IF A SITE IS NOT AVAILABLE, A LICENSED DISPOSAL SITE. *(BASED ON APCD RULE 310)*
5. A PERSON SHALL NOT DISCHARGE INTO THE ATMOSPHERE VOLATILE ORGANIC COMPOUNDS (YOC'S) CAUSED BY THE USE OR MANUFACTURE OF CUTBACK OR EMULSIFIED ASPHALTS FOR PAVING, ROAD CONSTRUCTION OR ROAD MAINTENANCE, UNLESS SUCH MANUFACTURE OR USE COMPLIES WITH THE PROVISIONS RULE 217. *(BASED ON APCD RULE 217).*
6. PROCESSES THAT DISCHARGE 2 POUNDS PER DAY OR MORE OF AIR CONTAMINANTS, AS DEFINED BY HEALTH AND SAFETY CODE SECTION 39013, TO THE ATMOSPHERE MAY REQUIRE A PERMIT. PERMITS MAY BE REQUIRED FOR BOTH CONSTRUCTION AND OPERATION. DEVELOPERS/CONTRACTORS SHOULD CONTACT THE DISTRICT PRIOR TO CONSTRUCTION AND OBTAIN ANY NECESSARY PERMITS PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. *(BASED ON THE CALIFORNIA HEALTH & SAFETY CODE SECTION 39013*: HTTP://WWW.LEGINFO.CA.GOV/CGI-BINIDISPLAYCODE?SECTION=HSC&GROUP=39001-40000&FILE=39010-39060

GENERAL FIRE DEPARTMENT NOTES:

1. PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT TO THE SITE, ANY REQUIRED ON-SITE FIRE HYDRANTS SHALL BE COMPLETED AND ACCEPTED BY THE ROSEVILLE FIRE DEPARTMENT.
2. CONSTRUCTION MATERIAL AND VEHICLES SHALL NOT OBSTRUCT FIRE APPARATUS ACCESS TO FIRE APPARATUS ROADS, FIRE HYDRANTS OR THE BUILDING.
3. BARRICADES SHALL BE PROVIDED TO PROTECT ANY NATURAL GAS METER, FIRE HYDRANT, FIRE DEPARTMENT CONTROL DEVICE, OR OTHER POSSIBLE PERTINENT EQUIPMENT OR DEVICES THAT MAY BE SUBJECT TO VEHICULAR DAMAGE.
4. PROVIDE AND MAINTAIN A MINIMUM 3-FOOT CLEAR SPACE AROUND FIRE PROTECTION EQUIPMENT.
5. THE BURNING OF COMBUSTIBLE CONSTRUCTION MATERIALS AND TRASH IS PROHIBITED.
6. DRYWALL AND OTHER TEMPORARY HEATING DEVICES SHALL BE OF AN APPROVED TYPE, LOCATED AWAY FROM COMBUSTIBLE MATERIALS AND ATTENDED AND MAINTAINED AT ALL TIMES. HEATING DEVICES SHALL NOT BE OPERATED AFTER NORMAL WORKING HOURS WITHOUT BEING ATTENDED TO ON AN HOURLY BASIS.
7. CUTTING AND WELDING OPERATIONS SHALL CONFORM TO THE HOT WORK PROVISIONS OF CHAPTER 35 OF THE FIRE CODE. A FIRE WATCH SHALL BE PROVIDED DURING HOT-WORK ACTIVITIES AND SHALL CONTINUE FOR A MINIMUM OF 30 MINUTES AFTER THE CONCLUSION OF THE WORK.
8. IF SITE SURVEY OR EARTH MOVING WORK RESULTS IN THE DISCOVERY OF HAZARDOUS MATERIALS IN CONTAINERS, OR WHAT APPEARS TO BE HAZARDOUS WASTES RELEASED INTO THE GROUND, THE CONTRACTOR OR APPLICANT SHALL IMMEDIATELY REPORT THE FINDING TO THE ROSEVILLE FIRE DEPARTMENT VIA PHONE AT (916) 774-5800. ALL SUSPECTED AREAS SHALL BE MARKED OFF WITH APPROVED SIGNAGE OR CAUTION TAPE UNTIL SUCH TIME THAT A REPRESENTATIVE FROM THE FIRE DEPARTMENT DETERMINES WHETHER THE RELEASE IS REPORTABLE OR NOT AND IF SITE REMEDIATION IS REQUIRED.
9. FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CHAPTER 33 OF THE CALIFORNIA FIRE CODE.
10. TEMPORARY USE OF ON-SITE GENERATORS WITH OVER 60 GALLONS OF DIESEL FUEL SHALL REQUIRE A FIRE DEPARTMENT PERMIT AND MUST MEET THE REQUIREMENTS OF THE CHAPTER 6.95 OF THE HEALTH AND SAFETY CODE, THE ROSEVILLE FIRE DEPARTMENT AND THE NATIONAL FIRE CODES. CONTACT THE FIRE DEPARTMENT AT 916-774-5800 TO INITIATE THE PERMIT APPLICATION.
11. FIRE DEPARTMENT CONNECTION(S) SHALL BE WITHIN 2-FEET OF BACK OF CURB OR BACK OF WALKWAY, AND SHALL REMAIN UNOBSTRUCTED AT ALL TIMES.
12. ALL FIRE DEPARTMENT CONNECTIONS SHALL BE LABELED WITH THE APPROPRIATE ADDRESS.
13. MECHANICAL JOINTS SHALL BE INSTALLED AT AREAS NOTED PER THE EBBA THRUST RESTRAINT DESIGN PROGRAM SPECIFICATIONS.

A.P.N. 017-162-005

BENCHMARK NO. CITY OF ROSEVILLE BM 135 ELEV. 124.455
3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7321
LOCATED ON THE SOUTH SIDE OF FLEASANT GROVE BLVD
APPROXIMATELY 300 FEET EAST OF THE CENTERLINE OF
FIDDYMENT ROAD, 4 FEET SOUTH OF THE WHITE BAR
TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE	VERTICAL SCALE	JOB NO.
1" = 20'-0"	N/A	19-106

REVISION			AGENCY APPROVAL	
NO.	DATE	BY	BY	DATE

DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/9/2020

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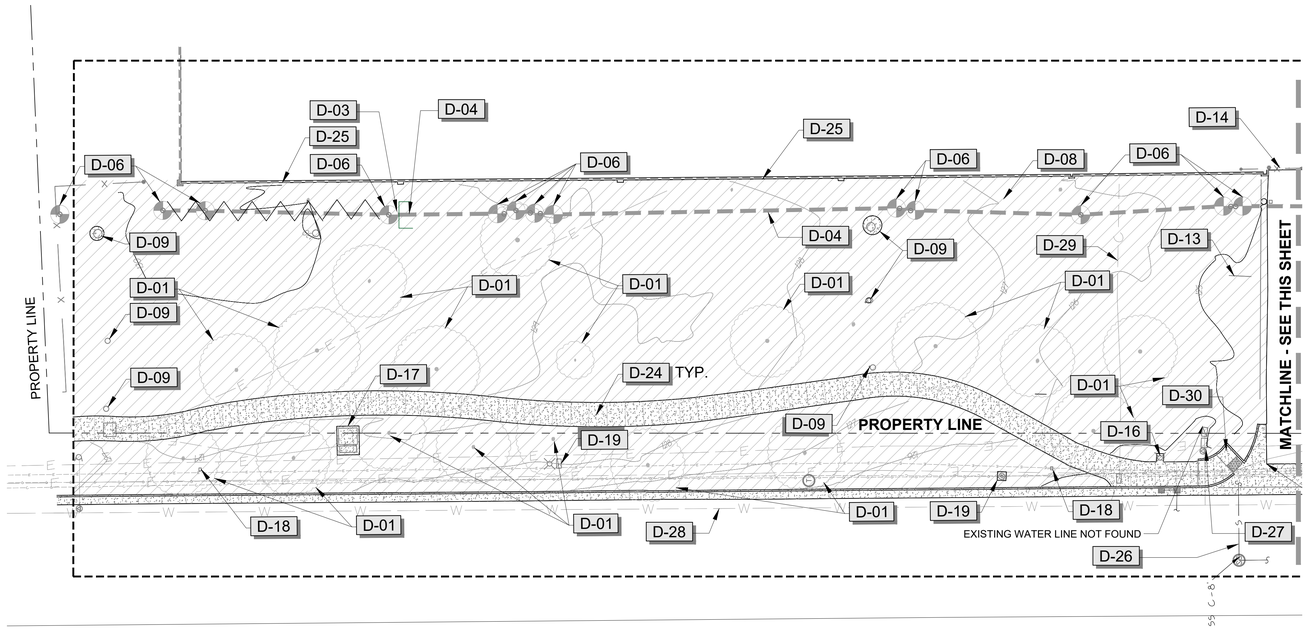
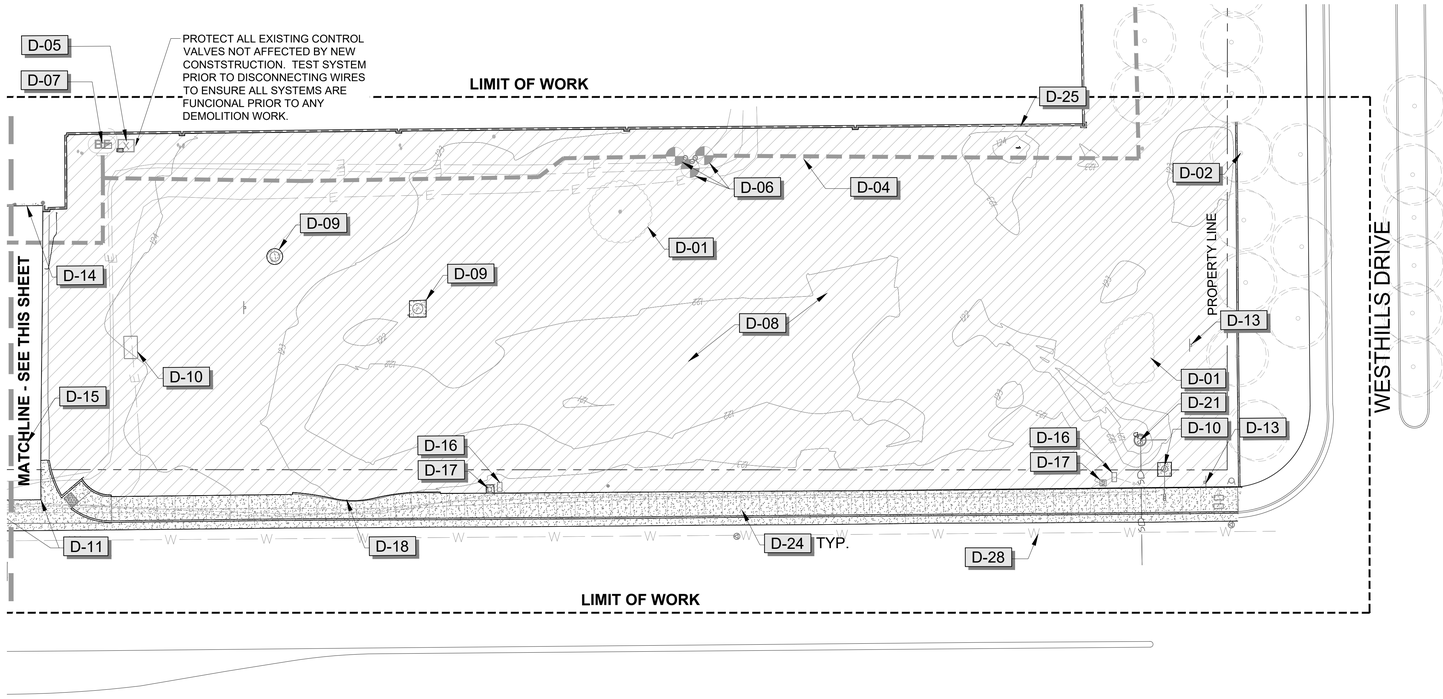
DEMOLITION NOTES

IMPROVEMENT PLANS FOR:
ROSEVILLE FIDDYMENT SUBSTATION
6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.
LD-1.0





LANDSCAPE DEMOLITION SCHEDULE

SYMBOL	DESCRIPTION
D-01	EXISTING TREE TO BE REMOVED
D-02	EXISTING TREE TO REMAIN, PROTECT IN PLACE
D-03	EXISTING IRRIGATION MAIN LINE TO BE REMOVED OR ABANDONNED IN PLACE.
D-04	EXISTING MAINLINE TO REMAIN. PROTECT IN PLACE. SEE IRRIGATION PLANS.
D-05	EXISTING IRRIGATION CONTROL BOX TO BE REMOVED AND REPLACED WITH NEW, SEE IRRIGATION PLANS
D-06	EXISTING IRRIGATION VALVE TO BE REMOVED. CUT AND CAP AT MAINLINE CONNECTION.
D-07	EXISTING IRRIGATION WELL AND BACKFLOW TO BE REMOVED OR ABANDONED IN PLACE
D-08	CLEAR AND GRUB
D-09	EXISTING UTILITY POLE AND OVERHEAD POWER LINES TO REMAIN
D-10	EXISTING ELECTRIC BOX TO REMAIN, PROTECT IN PLACE
D-11	EXISTING FENCE, PROTECT IN PLACE
D-12	EXISTING FIRE HYDRANT TO REMAIN, PROTECT IN PLACE
D-13	EXISTING SIGN TO REMAIN, PROTECT IN PLACE
D-14	EXISTING GATE TO REMAIN, PROTECT IN PLACE
D-15	EXISTING DRIVEWAY TO REMAIN, PROTECT IN PLACE
D-16	EXISTING STREET LIGHT TO REMAIN, PROTECT IN PLACE
D-17	EXISTING ELECTRICAL VAULT TO REMAIN, PROTECT IN PLACE
D-18	EXISTING PEDESTAL TO REMAIN, PROTECT IN PLACE
D-19	EXISTING GAS VALVE TO REMAIN, PROTECT IN PLACE
D-20	EXISTING WATER RISER TO REMAIN, PROTECT IN PLACE
D-21	EXISTING STORM DRAIN INLET TO BE REMAIN, PROTECT IN PLACE.
D-22	EXISTING POTABLE WATER METER AND BACKFLOW TO REMAIN, PROTECT IN PLACE
D-23	EXISTING GUARDRAIL TO REMAIN, PROTECT IN PLACE
D-24	EXISTING SIDEWALK TO REMAIN
D-25	EXISTING WALL TO REMAIN
D-26	EXISTING SEWER LINE TO REMAIN, PROTECT IN PLACE.
D-27	EXISTING WATER METER AND BACKFLOW TO REMAIN, PROTECT IN PLACE.
D-28	EXISTING WATER LINE TO REMAIN, PROTECT IN PLACE.
D-29	EXISTING CONDUIT TO REMAIN, PROTECT IN PLACE.
D-30	EXISTING CURB RAMP TO REMAIN
	MAINLINE TO BE REMOVED

SCALE: 1"=20'-0"

0 10 20 40

NORTH

A.P.N. 017-162-005

BENCHMARK NO.: CITY OF ROSEVILLE BM 135 ELEV.: 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7321 LOCATED ON THE SOUTH SIDE OF FLEASANT GROVE BLVD APPROXIMATELY 1300 FEET EAST OF THE CENTERLINE OF FOOTHILL BLVD, 14 FEET SOUTH OF THE CENTERLINE OF TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: N/A
JOB NO. 19-106

AGENCY APPROVAL

BY	DATE

NO.	REVISION	DATE

DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/10/2020

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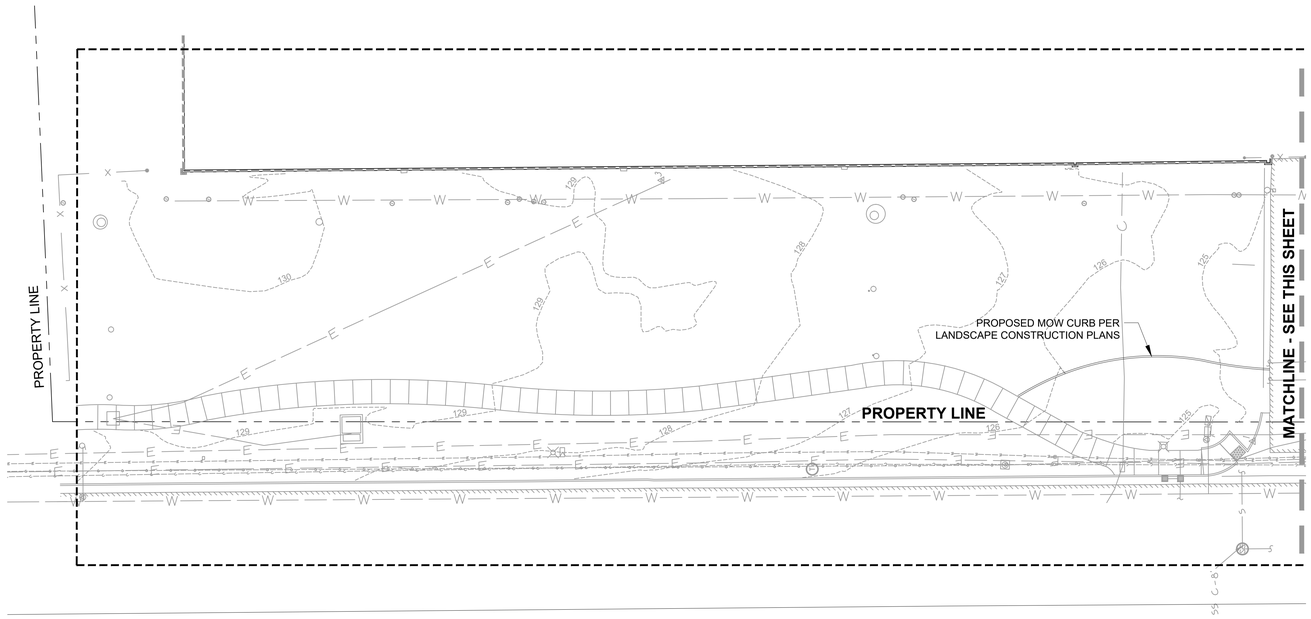
SchmidtDesign.com

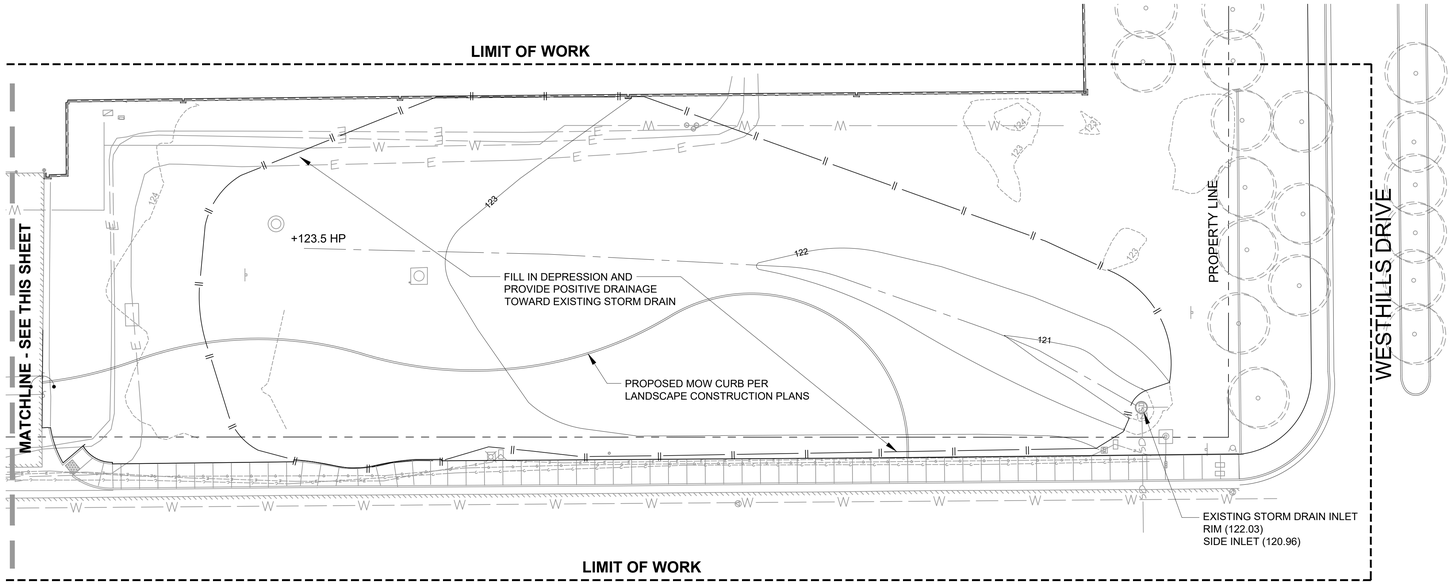
DEMOLITION PLAN

IMPROVEMENT PLANS FOR:
ROSEVILLE FIDDYMENT SUBSTATION
6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.
LD-1.1



FIDDYMENT ROAD



GRADING SCHEDULE

- DAYLIGHT LINE
- EXISTING STORM DRAIN INLET RE
  RIM: 122.03
  SIDE INLET: 120.96
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- +HP HIGH POINT SWALE
- CENTER LINE OF SWALE
- EXISTING POTABLE WATER LINE
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE

GRADING AND DRAINAGE NOTES:

1. THIS PLAN IS DIAGRAMMATIC ONLY. ANY ON SITE CONDITIONS THAT DO NOT REFLECT THE INTENT OF THE GRADING AND DRAINAGE PLAN SHALL BE BROUGHT TO THE RESIDENT ENGINEER PRIOR TO GRADING.
2. ACCURATE LOCATION AND ELEVATION OF ALL EXISTING IMPROVEMENTS WITHIN THE AREA OF WORK SHALL BE CONFIRMED BY FIELD MEASUREMENT AND PRESENTED TO THE RESIDENT ENGINEER PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR SHALL INFORM RESIDENT ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF NEW WORK.
3. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO ALLOW REVISIONS TO PLANS, IF REVISIONS ARE NECESSARY, BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
4. THE CONTRACTOR SHALL NOTIFY DIG ALERT (DIAL#811) AT LEAST TWO DAYS PRIOR TO STARTING WORK AND SHALL COORDINATE ALL
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, AND BE FAMILIAR WITH, ALL ON SITE UTILITIES, HARDSCAPE STRUCTURES AND GRADING INFORMATION PERTINENT TO THIS PROJECT. ALL SUBSTRUCTURES, WHETHER SHOWN HEREON OR NOT, SHALL BE PROTECTED FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURES SHALL BE BORNE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ENFORCE SAFETY MEASURES OR REGULATIONS.
7. ALL WORK SHALL BE ACCOMPLISHED IN CONFORMANCE WITH APPLICABLE CITY OF ROSEVILLE ORDINANCES AND STANDARDS.
8. NO GRADING IS TO EXTEND BEYOND LIMITS OF CONSTRUCTION.
9. ALL NEW CONSTRUCTION SHALL MEET FLUSH WITH EXISTING PAVING (TYPICAL CONSTRUCTION).
10. THE CONTRACTOR SHALL PROVIDE VERIFICATION OF ACCURATE FINISH ELEVATIONS TO THE RESIDENT ENGINEER FOR APPROVAL.
11. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
12. ALL DRAIN PIPES SHOWN ON PLANS SHALL BE INSTALLED WITH SLOPES SHOWN ON PLANS.
13. CONTRACTOR SHALL ASSURE ALL AREAS HAVE POSITIVE DRAINAGE. ALL GRADES AND SWALES SHALL BE DIRECTED AROUND EXISTING UTILITIES. NO PONDING SHALL OCCUR FOR ALL AREAS.

GRADING AND UTILITY NOTE:

PRIOR TO THE COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL HAVE THE EXISTING UTILITIES POT HOLED FOR VERIFICATION OF LOCATION AND DEPTH. AT SUCH TIME, POT HOLE DATA SHALL BE PROVIDED TO THE ENGINEER FOR DETERMINATION OF ADEQUATE CLEARANCE AND SEPARATION.

OFFHAUL GENERAL NOTE:

PRIOR TO THE COMMENCEMENT OF GRADING OPERATIONS, THE CONTRACTOR SHALL IDENTIFY THE SITE WHERE THE EXCESS/BORROW EARTHEN MATERIAL SHALL BE IMPORTED/DEPOSITED. IF THE BORROW/DEPOSIT SITE IS WITHIN THE CITY OF ROSEVILLE, THE CONTRACTOR SHALL PRODUCE A REPORT ISSUED BY A GEOTECHNICAL ENGINEER TO VERIFY THAT THE EXPORTED MATERIALS ARE SUITABLE FOR THE INTENDED FILL, AND SHALL SHOW PROOF OF ALL APPROVED GRADING PLANS. HAUL ROUTES TO BE USED SHALL BE SPECIFIED.

SCALE: 1"=20'-0"

0 10 20 40

NORTH

A.P.N. 017-162-005

BENCHMARK NO.: CITY OF ROSEVILLE BM 135 ELEV: 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7321 LOCATED ON THE SOUTH SIDE OF FLEASANT GROVE BLVD APPROXIMATELY 3300 FEET EAST OF THE CENTERLINE OF FERRARI RANCH ROAD, 4.4 FEET SOUTH OF THE SOUTH FACE OF THE TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: N/A
JOB NO. 19-106

AGENCY APPROVAL		
BY	DATE	

REVISION		
NO.	DATE	

DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/30/2020

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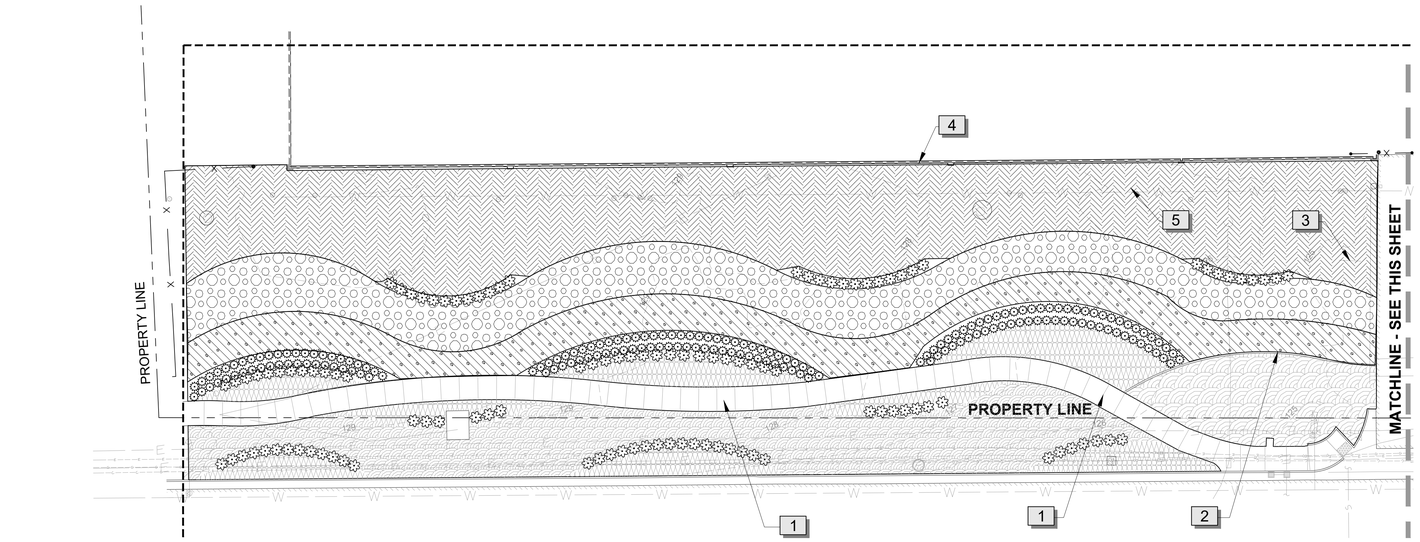
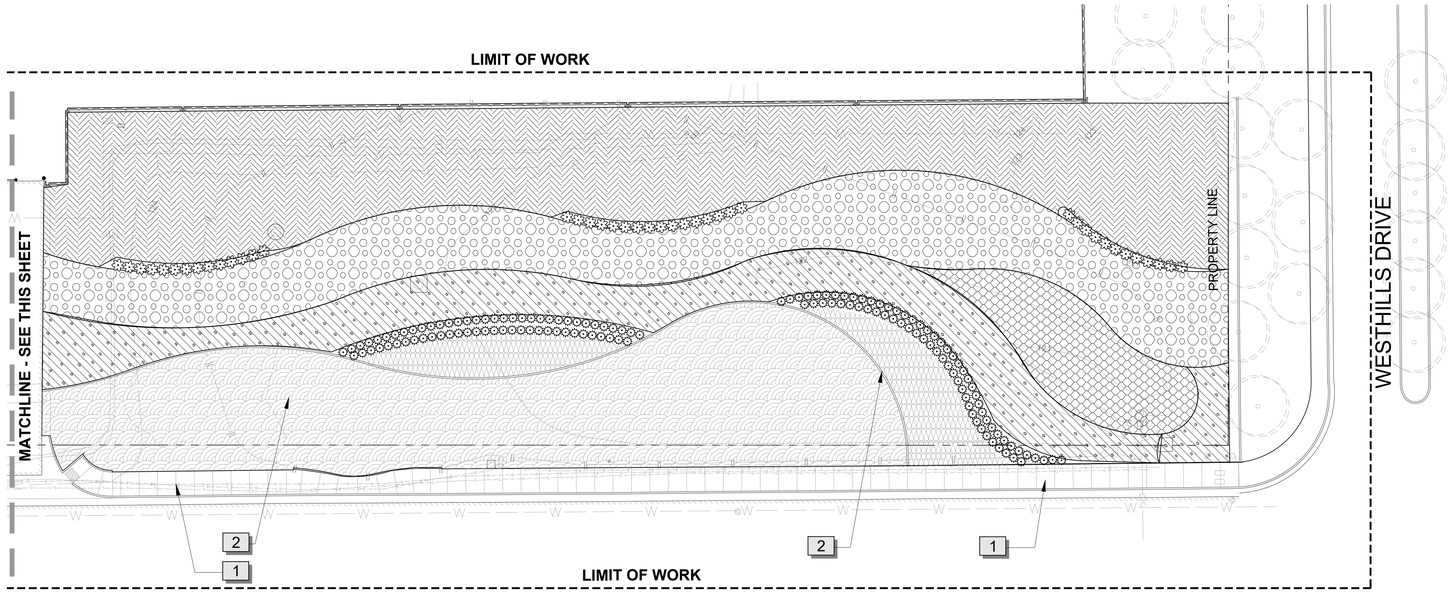
GRADING PLAN

IMPROVEMENT PLANS FOR:
ROSEVILLE FIDDYMENT SUBSTATION
6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.
LG-1.0





REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	EXISTING SIDWALK TO REMAIN.	
2	12" CONCRETE MOW CURB	PK-27 / LC-2.0
3	EXISTING IDENTITY SIGNGAE. CONTRACTOR TO PROTECT IN PLACE.	
4	EXISTING BLOCK WALL. CONTRACTOR TO PROTECT IN PLACE.	
5	PROPOSED LIGHTING - SEE ELECTRICAL PLANS	

PLANT SCHEDULE

SHRUBS	BOTANICAL / COMMON NAME	CONT		QTY
⊙	DIANELLA TASMANICA `VARIEGATA` / VARIEGATED FLAX LILY	1 GALLON		311
⊛	YUCCA FILAMENTOSA `COLOR GUARD` / COLOR GUARD ADAM`S NEEDLE	5 GALLON		152
SHRUB AREAS	**BOTANICAL / COMMON NAME**	**CONT**	**SPACING**	**QTY**
	JUNCUS PATENS / CALIFORNIA GRAY RUSH	1 GALLON	36" o.c.	246
	LANTANA MONTEVIDENSIS `WHITE LIGHTNIN` / TRAILING LANTANA	1 GALLON	48" o.c.	674
	MUHLENBERGIA DUBIA / PINE MUHLY	5 GALLON	60" o.c.	1,101
	SALVIA LEUCOPHYLLA `POINT SAL SPREADER` / POINT SAL SPREADER PURPLE LEAF SAGE	1 GALLON	48" o.c.	954
GROUND COVERS	**BOTANICAL / COMMON NAME**	**CONT**	**SPACING**	**QTY**
	CALANDRINIA GRANDIFLORA / ROCK PURSLANE	1 GALLON	24" o.c.	1,444
	ROSMARINUS OFFICINALIS `HUNTINGTON CARPET` / HUNTINGTON CARPET ROSEMARY	1 GALLON	36" o.c.	2,024

SCALE: 1"=20'-0"

0 10 20 40

NORTH

A.P.N. 017-162-005

BENCHMARK NO.: CITY OF ROSEVILLE BM 135 ELEV: 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7321 LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD APPROXIMATELY 1300 FEET EAST OF THE CENTERLINE OF FIDDYMENT RD. 4.4 FEET SOUTH OF THE CENTERLINE OF THE BUS TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: N/A
JOB NO. 19-106

AGENCY APPROVAL	BY	DATE

REVISION	NO.	DATE

DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/13/2020

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LANDSCAPE CONSTRUCTION AND PLANTING PLAN

IMPROVEMENT PLANS FOR:

ROSEVILLE FIDDYMENT SUBSTATION

6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.

LC-1.0

CONSTRUCTION NOTES:

1. UNLESS SPECIFIED OTHERWISE, LANDSCAPE CONSTRUCTION AND LAYOUT WORK INCLUDES, BUT IS NOT LIMITED TO THE LOCATION, PLACEMENT AND DETAILING OF THE CONCRETE MOW CURB, PLANTING AND IRRIGATION.
2. SEE GRADINGING PLAN FOR FINISH GRADING, SITE UTILITY LAYOUT.
3. DIMENSIONS INDICATED ON PLANS SHALL PREVAIL OVER PLAN SCALE. DIMENSIONS ARE TO FACES OF CURB. ALL ANGLES AND CONNECTIONS ARE (90) DEGREES UNLESS NOTED OTHERWISE.
4. ALL COORDINATE POINTS AND DIMENSIONS ARE TAKEN FROM THE BACK OF CURB UNLESS OTHERWISE NOTED.
5. FIBER EXPANSION JOINTS SHALL BE AS LOCATED ON PLANS AND WHERE NEW CONCRETE EXPANSION JOINTS MEETS ADJACENT HARD SURFACES SUCH AS EXISTING CONCRETE OR WALLS. ALL FIBER EXPANSION JOINTS SHALL BE SEALED.
6. CONSTRUCT EXPANSION, WEAKENED-PLANE (CONTRACTION) AND CONSTRUCTION JOINTS IN ACCORDANCE WITH PARKS DESIGN AND CONSTRUCTION STANDARDS.
7. ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 2500 PSI AT 28 DAYS FOR SIDEWALKS. FINISH SHALL BE AS NOTED ON PLANS.
8. LAYOUT POINTS OF ALL RADIUS SHALL BE CONNECTED BY SMOOTH EVEN LINES TO CREATE THE CURVED CONFIGURATION AS SHOWN ON THE PLANS.
9. SEE IRRIGATION PLANS FOR SLEEVE LOCATIONS PRIOR TO CONSTRUCTION.
10. SEE ELECTRICAL PLANS FOR SLEEVE AND LIGHT POLE LOCATIONS PRIOR TO CONSTRUCTION.
11. NO DEVIATIONS FROM PLANS SHALL OCCUR WITHOUT APPROVAL OF THE CITY'S PROJECT MANAGER.
12. ANY PROPOSED WORK THAT IS INCONSISTENT WITH COMMON, SAFE CONSTRUCTION PRACTICES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY'S PROJECT MANAGER PRIOR TO COMMENCING WITH CONSTRUCTION.
13. CONTRACTOR SHALL VISIT SITE AND VERIFY ALL FIELD CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
14. CONTRACTOR SHALL REVIEW PLANS AND DETAILS TO ASCERTAIN LOCATIONS NECESSARY TO PROVIDE ELECTRICAL CONNECTIONS TO POWER IRRIGATION, LIGHTING, ETC.
15. CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL SITE UTILITIES PRIOR TO CONSTRUCTION. NOTIFY CITY'S PROJECT MANAGER OF ANY DISCREPANCIES IMMEDIATELY.
16. CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL APPLICABLE FEES TO CONSTRUCT THE PLANS HEREIN.
17. THE CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION STAKING AND RE-STAKING REQUIRED TO COMPLETE THE PROJECT.
18. ALL HARDWARE SUCH AS NAILS, BOLTS, FASTENERS ETC. SHALL BE HOT DIPPED GALVANIZED UNLESS OTHERWISE NOTED.
19. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES AS NECESSARY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANUP OF THE SITE AND PROVIDING ADEQUATE SAFETY MEASURES DURING CONSTRUCTION ON A 24 HOUR BASIS.
21. ANY CREDITS AND/OR DEBITS SHALL BE REPORTED TO CITY'S PROJECT MANAGER AT TIME OF OCCURRENCE FOR PROPER VERIFICATION AND/OR APPROVAL PRIOR TO COMMENCEMENT OF RESULTING ACTION.
22. CONTRACTOR SHALL PROVIDE A 24 HOUR PHONE NUMBER AVAILABLE IN CASE OF EMERGENCY.

AMERICANS WITH DISABILITIES NOTES

1. ALL SLOPES SHOWN ON THIS PLAN WERE DESIGNED AT OR BELOW MAXIMUMS ALLOWED BY THE AMERICANS WITH DISABILITIES ACT ACCESS GUIDE (A.D.A.A.G.). IN ORDER TO ALLOW FOR CONSTRUCTION TOLERANCES. IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH A.D.A.A.G. AND IN THE EVENT THAT A DESIGN QUESTION SHOULD ARISE, OR A FIELD CONDITION PRESENTS ITSELF THAT IS DIFFERENT THAN SHOWN ON THESE PLANS, WORK SHOULD CEASE AND THE ENGINEER BE NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.
2. THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO A.D.A.A.G. ACCESS FOR THIS PROJECT. SINCE THE CODE DOES NOT ALLOW FOR A CONSTRUCTION TOLERANCE, AND CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS CALLED OUT BY A.D.A.A.G. ARE SUBJECT TO REJECTION BY THE CITY OF ROSEVILLE AND MAY BE REQUIRED TO BE MOVED AND REPLACED.
3. SINCE THE CIVIL ENGINEER OR SURVEYOR CANNOT CONTROL THE EXACT METHODS OR MEANS USED BY THE GENERAL CONTRACTOR OR THEIR SUBCONTRACTOR DURING GRADING AND CONSTRUCTION OF THE PROJECT, THE CIVIL ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL ACCEPTANCE OF A.D.A.A.G. RELATED ITEMS OF THIS PROJECT BY THE CITY OF ROSEVILLE, ANY OTHER AUTHORITY OR OTHER AFFECTED PARTIES.

COMPLIANCE WITH A.D.A.A.G. CONSTRUCTION REQUIREMENTS WILL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THEIR SUB-CONTRACTORS.

PLANTING NOTES:

1. CONTRACTOR SHALL REVIEW ALL PLANTING DRAWINGS, SPECIFICATIONS, AND INSTALLATION DETAILS BEFORE BEGINNING WORK.
2. THE OWNER'S REPRESENTATIVE SHALL APPROVE ALL FINISH GRADING PRIOR TO PLACEMENT OF ANY PLANT MATERIAL.
3. CONTRACTOR SHALL IMMEDIATELY, UPON THE AWARD OF THE CONTRACT, ORDER, LOCATE AND PURCHASE (OR HAVE HELD) ALL PLANT MATERIAL REQUIRED BY THESE PLANS AND SPECIFICATIONS. PLANT MATERIAL SHALL BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT SITE.
4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY REPAIRS MADE NECESSARY THROUGH THE ACTIONS OR NEGLIGENCE OF HIS EMPLOYEES AND SUBCONTRACTORS.
5. SOIL AMENDMENTS SPECIFIED ARE FOR BIDDING PURPOSES ONLY. ACTUAL TYPES AND AMENDMENT QUANTITIES WILL BE BASED ON SOIL ANALYSIS PROVIDED BY CONTRACTOR. AFTER ROUGH GRADING, SOIL SAMPLES SHALL BE TAKEN FROM TWO (2) LOCATIONS IN DIFFERENT AREAS OF THE SITE , AT 6" TO 10" DEPTH, MIXED TOGETHER TO REPRESENT AN ADEQUATE CROSS SECTION OF CONDITIONS. TEST SHALL BE CONDUCTED BY A FIRM APPROVED BY PROJECT LANDSCAPE ARCHITECT AND SHALL INCLUDE TESTS FOR SOIL FERTILITY, AGRICULTURAL SUITABILITY ,ORGANIC CONTENT, N, P, K; PH; EC; SOIL TEXTURE; AND RECOMMENDATIONS FOR AMENDMENTS, LEACHING, AND MAINTENANCE FERTILIZATION. CONTRACTOR SHALL FURNISH THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER'S REPRESENTATIVE WITH A COPY OF TEST RESULTS AND RECEIVE WRITTEN APPROVAL FOR AMENDMENTS / SOIL PREPARATION PRIOR TO INSTALLATION. FOR "SOIL PREP;" THE AMENDMENTS ARE TO BE MIXED INTO THE TOP 6" OF SOIL THROUGHOUT THE SITE EXCEPT ON SLOPES GREATER THAN 3:1.

   THE FOLLOWING AMENDMENT MIXES ARE FOR CONTRACTOR BID PURPOSES (AND TO BE MODIFIED PER SOIL ANALYSIS RECOMMENDATIONS AS NECESSARY):

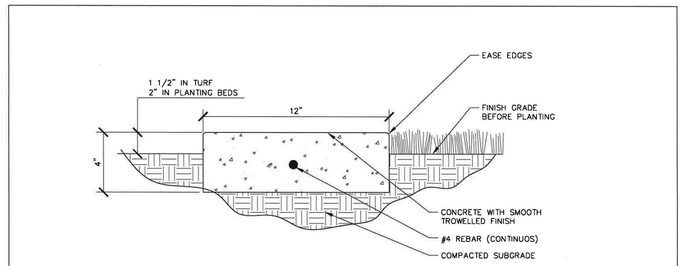
   A) BID MIX FOR SHRUB BED AREAS:
   SOIL AMENDMENTS BID MIX SHALL BE THE FOLLOWING PER 1000 SQUARE FEET:
   - 3 CU. YDS. NITROGEN STABILIZED ORGANIC AMENDMENT.
   - 20 LBS. 6-20-20 N-P-K SLOW RELEASE FERTILIZER
   - 0.2 LBS. COPPER SULFATE
   - 0.5 LBS. ZINC SULFATE
   - 2 LBS AMMONIUM SULFATE
   - 4 CU. YDS. COMPOST TO A DEPTH OF 6"; EXISTING SOILS WITH 6% OR HIGHER ORGANIC MATTER IN THE TOP 6" OF SOIL ARE EXEMPT FROM ADDING COMPOST AND TILLING.

   B) BID MIX FOR PLANT PIT BACKFILL AREAS:
   PLANTING AND BACKFILL MIX FOR PLANT PITS SHALL BE AS FOLLOWS PER CUBIC YARD:
   - 66% OF NATIVE SOIL
   - 33% NITROGEN STABILIZED ORGANIC AMENDMENT
   - 2.5 LBS 6-20-20 N-P-K SLOW RELEASE FERTILIZER

   THOROUGHLY BLEND THE ABOVE AT A CENTRAL ON-SITE LOCATION PRIOR TO USE. THE FERROUS SULFATE SHOULD NOT CONTACT PAVING SURFACES AS STAINING WILL RESULT.

   "SOIL PREP" TO BE MIXED INTO THE TOP 6" OF SOIL THROUGHOUT THE SITE EXCEPT ON SLOPES GREATER THAN 3:1. SOIL LEACHING SPECIFIED ARE FOR BIDDING PURPOSES ONLY. ACTUAL DURATION AND SOIL AMENDMENTS FOR LEACHING (IF RECOMMENDED BY THE CONTRACTOR'S PROVIDED SOILS REPORT) WILL BE BASED ON SOIL ANALYSIS PROVIDED BY THE APPROVED SOILS LABORATORY. CONTRACTOR SHALL FURNISH THE OWNER'S REPRESENTATIVE WITH A COPY OF THE RECOMMENDATIONS AND RECEIVE WRITTEN APPROVAL FOR LEACHING AND AMENDMENTS PRIOR TO THE START OF THE LEACHING PROCESS.

   LEACHING:
   -CONTRACTOR SHALL ASSUME ONE ROUND OF SOIL LEACHING AND RETESTING OF LEACHED SOIL PRIOR TO PLANTING. PRIOR TO LEACHING; CONTRACTOR TO APPLY GYPSUM AND LEACH A MINIMUM OF 6" OF WATER THROUGH THE SOIL PROFILE OVER A MINIMUM OF TWO WEEKS.
6. SHRUB AND GROUNDCOVER MASS QUANTITIES ARE SHOWN ON PLANS. GROUNDCOVER SHALL BE INSTALLED WITH TRIANGULAR SPACING TO WITHIN 12" OF TREE OR SHRUB STEMS.
7. PLANT SYMBOLS TAKE PRECEDENCE OVER PLANT QUANTITIES SPECIFIED. WHERE SHRUB SYMBOLS ARE MASSED, CONTRACTOR SHALL MAINTAIN A CONSISTENT ON CENTER , TRIANGULAR SPACING AS SPECIFIED IN LEGEND. CONTRACTOR SHALL VERIFY PLANT TOTALS FOR BID PURPOSES.
8. PRIOR TO PLANTING, IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL AND ALL PLANTING AREAS SHALL BE THOROUGHLY WATERED.
9. PRIOR TO BEGINNING THE PLANTING OPERATION, IRRIGATE ALL PLANTING AREAS NORMALLY FOR TWO WEEKS TO GERMINATE WEEDS. APPLY CONTACT HERBICIDE TO WEEDS ONLY PER MANUFACTURER, MONSANTO "ROUND-UP" OR EQUAL. REPEAT PROCESS IF WEEDS PERSIST.
10. PERCOLATION TEST SHALL BE CONDUCTED, AND MUST COMPLY WITH "GREENBOOK" "CLASS A" TOPSOIL PERMEABILITY RATE REQUIREMENTS.
11. PLANT MATERIAL MAY BE REJECTED AT ANY TIME BY LANDSCAPE ARCHITECT DUE TO CONDITION, FORM OR DAMAGE BEFORE AND OR DURING CONSTRUCTION.
12. PLANTING TABLETS SHALL BE GRO-POWER PLANTING TABLETS 12-8-8 (12 MONTH SLOW RELEASE FORMULATION). ALL PLANTING BEDS SHALL HAVE THREE INCH MIN. THICK MULCH LAYER. MULCH SHALL BE FREE OF STICKS, STONES, CLAY OR OTHER FOREIGN MATERIAL. CONTRACTOR SHALL SUBMIT SAMPLE TO THE PROJECT LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO DELIVERY TO THE JOB SITE. SHREDDED (i.e. "GORILLA") MULCH IS NOT ACCEPTABLE.
19. ALL PLANTING SHALL BE GUARANTEED THROUGH THE ESTABLISHMENT PERIOD. SHRUBS, AND GROUNDCOVERS SHALL SHALL HAVE A 90 DAY ESTABLISHMENT PERIOD AND BE GUARANTEED FOR A PERIOD OF ONE YEAR, BEGINNING FROM THE DATE OF THE FINAL ACCEPTANCE OF THE ESTABLISHMENT PERIOD.
20. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL AREAS IN A WEED AND DEBRIS-FREE CONDITION THROUGHOUT THE ESTABLISHMENT PERIOD.
21. CONTRACTOR SHALL PROVIDE ADDITIONAL PLANT MATERIAL; IF ALL MATERIALS ARE NOT USED, THE CONTRACTOR SHALL CREDIT THE OWNER THE BALANCE OF THE AMOUNT. THE CONTRACTOR SHALL BID THE FOLLOWING MATERIAL IN ADDITION TO PLANTS SHOWN ON ATTACHED PLANS:
    25 - 5 GALLON SHRUBS
    75 - 1 GALLON SHRUBS



DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

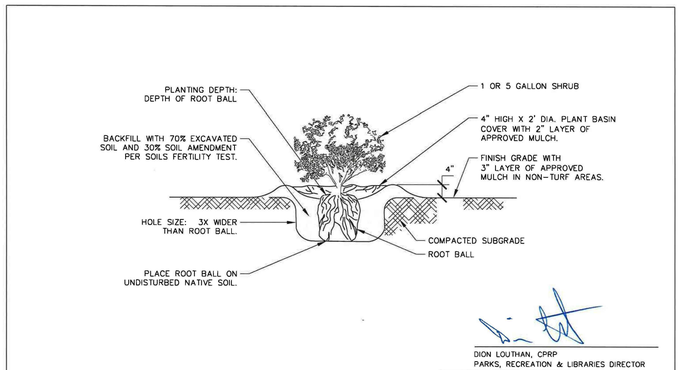
CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

MOWBAND

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK–27

NOTES
1. WHERE VEHICULAR SERVICE/MAINTENANCE TRAFFIC WILL CROSS MOWBANDS, CONCRETE SECTIONS SHALL BE THICKENED TO 6" (SELECT AREAS ONLY).
2. PROVIDE 1/2" SCORE JOINTS AT 20' O.C.



DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

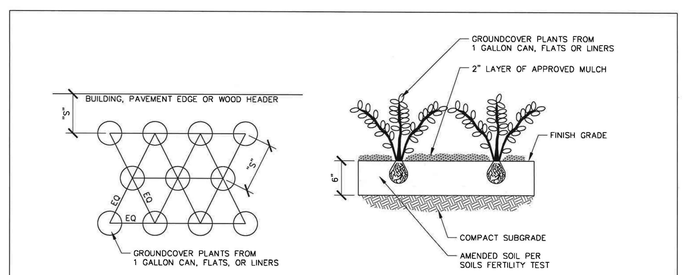
CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

SHRUB PLANTING

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK–18

NOTES
1. AMENDMENT SHALL BE CONSISTENT WITH SOILS FERTILITY TEST.
2. PLANTING AREAS SHALL BE TREATED WITH PRE-EMERGENT PRIOR TO PLANTING TO PREVENT GERMINATION OF WEED SEEDS.
3. SCORE ROOT BALL IN VARIOUS LOCATIONS.



DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

GROUNDCOVER PLANTING

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK–17

NOTES
1. "S" REFERS TO PLANT SPACING, SEE PLANT TABLE ON CONSTRUCTION DOCUMENTS.

A.P.N. 017-162-015

BENCHMARK NO. CITY OF ROSEVILLE BM 135 ELEV. 124.455
3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7321
LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD
APPROXIMATELY 300 FEET EAST OF THE CENTERLINE OF FOOTHILL BLVD, 4.4 FEET SOUTH OF THE CENTERLINE OF TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: N/A
JOB NO. 19-106

AGENCY APPROVAL

REVISION NO.	DATE	BY	DATE

DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/30/2020

SCHMIDT DESIGN GROUP
1310 Bowsprit St. Suite G, San Diego, CA 92106
619.230.1462
LIC. CA 2388 | NV 299 | AZ 34339
SCHMIDTDESIGN.COM

LANDSCAPE NOTES AND DETAILS

IMPROVEMENT PLANS FOR:
ROSEVILLE FIDDYMENT SUBSTATION
6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.
LC-2.0

DIVISION 26 – ELECTRICAL REQUIREMENTS

WORK INCLUDED:

A. Furnish and install all necessary labor, materials, devices, tools and equipment to perform and completely finish the work according to the intent of this specification, and the accompanying drawings. Furnish and install any incidental work, which can reasonably be inferred as required, and necessary to provide complete and workable systems.

GENERAL REQUIREMENTS AND CODES:

A. Work and material shall be in full accordance with the following latest rules and regulations:
   1. California Code of Regulations Title-24 including the California Electrical Code (CEC), California Building Code (CBC), and California Energy Code.
   2. Title 8 of the California Code of Regulations
   3. All applicable local codes.

RECORD DRAWINGS

A. Upon completion of Work, furnish Engineer with electronic files of complete plans in AutoCAD format on disk (CD), final version and format to be determined at time of submission. In addition provide (1) set of complete plans on reproducible vellums (not marked blueprints). Plans shall show all Work installed under Contract. Include all changes including addendums, change orders, RFI changes, etc.

SUBMITTALS

A. Prior to commencement of Work, submit for approval in accordance with General Conditions all equipment and materials to be furnished. Submittals shall be bound and indexed and shall include a table of contents listing all equipment submitted including product description, manufacturer make and model number. Where a group or series of products are submitted, each item does not have to be listed, only the series need to be identified.

B. Shop drawings submittals shall be neat and professionally done using CAD (computer aided drafting), hand-drawn submittals will not be accepted. Shop drawings shall have sufficient information to clearly indicate work to be performed and be complete including device/equipment locations, wire sizes, wire types and number of wires, symbol list or legend, point-to-point connections, wiring diagrams, and equipment anchorage detail where needed. Shop drawings shall utilize the same size paper as the Bid set of plans.

C. Substitutions:
   1. Only one request for substitution will be considered on each item of material or equipment. Should the original submittal of a proposed substitution be rejected, the specified item shall be furnished.
   2. Submit complete information or catalog data to show equality of equipment or material offered to that specified. Identify which product is being substituted in the specifications and/or the plans and provide analysis as indicating either it "Complies" or that it "Does Not Comply" and providing a reason.
   3. Acceptance of a substitute is not to be considered a release from the Specifications. Any deficiencies in an item, even though approved, shall be corrected by the Contractor at his expense.
   4. Responsibility for installation of approved substitution is included herein. Any changes required for installation of approved substituted equipment shall be made without additional cost to Owner.

PRODUCTS, MATERIALS, FABRICATION AND INSTALLATION:

CONDUITS & CIRCUITS

A. Rigid Steel Conduit (RSC), (CEC Article 344): Standard weight, mild steel pipe, zinc coated on inside and outside of conduit and finished with a protective coating. Fittings such as couplings and connectors shall be steel threaded type, subject to same requirements as for rigid steel conduit. Provide insulated connectors.

B. Electrical Metallic Tubing (EMT), (CEC Article 358): Cold rolled steel tubing with zinc coating on outside and a protective enamel coating on inside. Fittings shall be steel, connectors to be insulated, set screw type for indoor dry locations, compression type for all other applications.

C. Flexible Conduit Including Liquidtight (FMC, LFMC), (CEC Articles 348 & 350): Galvanized Steel with separate ground wire. Conduit shall be continuos with no couplings. Connectors to be insulated type. Liquid-tight for outdoor applications.

D. PVC Conduit (CEC Article 352): Schedule 40, 90 degrees C, UL rated, composed of Polyvinyl Chloride, UL listed, conforming to NEMA Standards.

J. All conduits above grade shall be Rigid Steel except EMT may be used at the following locations: Exposed above 10 ft. above finished floor or grade.

K. PVC conduit shall be used below grade where in direct contact with earth. Provide a ground wire in all PVC conduits. Cut trenches straight and true. Backfill to be sand from bottom to 12" from top, top 12" can be sand or fine earth material free of rubble, rubbish, and vegetation. Trenches shall be backfilled and compacted to 90% (per ASTM D1557) of maximum density at optimum moisture content in layers not to exceed 6" when compacted. Outside building foundation line, top of conduit to be 24" below finished grade. Inside foundation line, top of conduit to be below subgrade. The minimum size of conduits outside the foundation line shall be 1", 3/4" inside the foundation line. Bends shall be wide sweeping type with minimum 24 inch radius bends.
   1. Risers, including elbows, shall be double-wrapped rigid steel or PVC coated rigid steel conduit; except that risers, including elbows and bends, at in-ground pull box locations shall be PVC-40 terminated with endbells.
   2. For all trenches, provide a 6" wide non-biodegradable metal-detectable polyethylene tape at 12" below grade, 5-mil thick, labeled " CAUTION ELECTRIC LINE BURIED BELOW". Fluorescent red for electric power conduits and fluorescent orange "TELECOMMUNICATIONS" for telephone and signal conduits. Use Fluorescent red for common trenches. Tape shall be continuous for full length of trench.

OUTLET BOXES

A. Outlet boxes shall be galvanized pressed steel type, minimum 4" sq x 1.5" deep, with device ring & cover. Octagonal boxes for fixtures shall not be less than 4 inches.

WIRE

A. Wire shall be copper; manufactured by General Cable Co., General Electric Co., or equal. Wire insulation shall be THHN, THWN, THWN-2.

B. Wire splices and joints for #10 AWG or smaller shall be twisted together, electrically and mechanically strong, and insulated with approved type insulated electrical spring connectors; Scotchlok, Ideal or equal. Threaded type wire nuts are not acceptable. Joints and connections for #8 AWG or larger shall be made with Burndy, T&B or approved equal, solderless tool applied pressure lugs and connectors. Underground splices shall utilize resin pour plastic mold, moisture proof, tough impact resistant insulation.

C. #12 AWG wire shall be minimum size wire used for lighting and power circuits. Wires run in conduit shall conform to Code regulations as to number of wires and conduit size.

PULL LINE:

A. Furnish and install pull line in all unused (empty) raceways. Pull lines shall not rot or mildew.
   1. Conduits up to 1.5", 1/8" diameter braided line of polypropylene with 200 lbs. tensile strength, IDEAL, Jet-Line #232, or equal.
   2. Conduits 2" or larger: 3/16" polypropolene pull rope with 800 lbs. tensile strength, IDEAL Pro-Pull or equal.

PRECAST CONCRETE PULLBOXES/HANDHOLES:

A. Larger Boxes (48" x 30" or larger): Precast high-density reinforced concrete with end and side knockouts, pulling-in irons. Minimum 4" wall thickness. Coordinate size of thinwall knockouts with manufacturer for conduit entry. Acceptable manufacturers shall be Forni, Christy or equal.

B. Smaller Boxes (smaller than 48" x 30"): Precast high-density reinforced concrete with end and side knockouts, and extension as required. Minimum 1.5" wall thickness. Acceptable manufacturers shall be Forni, Christy or equal.

C. Covers: Larger box covers, in other than concrete paving areas, shall be one or multi piece as required, steel checker plate, galvanized with anti-slip surface rated for parkway loading, with hold-down bolts. All other box covers shall be reinforce concrete with hold down bolts. Where susceptible to vehicular traffic, use H-20 rated traffic cover. All covers shall be factory marked, see drawings for marking/label.
   1. The metal covers of lighting and power pull boxes shall be ground bonded to the circuit grounding conductor(s) in the pull box. The size of the bonding conductor shall be the same size as the associated circuit ground conductors

D. Installation:
   1. Excavate around area to accept box, a minimum of 4" around all sides for ease of installation. Provide 12" of compacted pea gravel for bedding and/or to facilitate drainage.
   2. Backfill shall consist sand or fine earth, compacted. Saturated soil or large rocks shall not be used. No voids shall remain between walls and native soil.
   3. Grout and seal conduits at box entry with cement. Provide with conduit end bells.

LIGHTING

A. Luminaires shall be approved by Underwriters' Laboratories, Inc. and shall bear the UL label. Ballast shall be equipped with built-in thermal protectors, Class P.

B. LED Luminaires: Fixtures shall comply with the following:
   1. UL Listed.
   2. Minimum 5-year warranty.
   3. L70 or L80 performance at 50,000 hrs.
   4. Photometrics testing and delivered lumens tested in accordance with IESNA LM-79.
   5. Testing for LED life and maintenance shall be per IESNA LM-80.
   6. Exterior fixtures to be rated for wet locations, IP65 rated

C. Acceptance Testing, Certification, and Commissioning
   1. Complete and submit the applicable Certificates of Installation and the Certificates of Acceptance. The certificates include (depending on the systems installed):
      a. NRCI-LTO-01-E, Certificate of Installation; Outdoor Lighting
      b. NRCI-LTO-02-E, Certificate of Installation; Energy Management Control System or Lighting Control System
      c. NRCA-LTO-02-A, Certificate of Acceptance, Outdoor Lighting Controls

GROUNDING

A. Ground Fittings shall be of approved manufactured type installed and connected to conform with Code requirements.

B. Neutral conductors and noncurrent-carrying parts of equipment at each installation shall be grounded in accordance with applicable Code. Ground conductor shall be copper having a current carrying capacity in accordance with the CEC.

C. All equipment cases, motor frames, etc., shall be completely grounded to satisfy requirements of CEC. Install bond wire in flexible conduit. Install copper bond wire, sized in accordance with CEC, in all nonmetallic raceways and bond to all metallic parts using approved fittings.

D. Total ground resistance shall not exceed 25 ohms.

E. All connections shall be made with solderless connectors or molded fusion-welding process.

F. Equipment grounding conductors shall be insulated with a continuous green outer finish along its entire length. Conductors size #4 AWG and larger may be identified (with green electrical tape applied half-lapped) at each end and at every point where the conductor is accessible. Tape shall be applied from its point of entry to point of exit or termination.

G. Insulated grounded (neutral) conductors shall be identified with a continuous white outer finish along its entire length. Neutral conductors #4 AWG or larger can be identified by a distinctive white marking (applied half-lapped with white electrical tape) for the last 12 inches at each end.

TESTS

A. Test all wiring and connections for continuity and grounds. Repair and retest all defects.

END

GENERAL NOTES:

1. ALL MOUNTING HEIGHTS NOTED ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED. VERIFY DEVICE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
2. ALL CONDUITS AND BOXES ON THE EXTERIOR SHALL BE PAINTED TO MATCH THE ADJACENT FINISH.
3. JUNCTION BOXES, CABINETS, EQUIPMENT ENCLOSURES, SWITCHES, PANELS, ETC., INSTALLED OUTDOORS, OR IN WET OR DAMP LOCATIONS, SHALL BE RATED NEMA-3R FOR OUTDOOR ENVIRONMENTS. PROVIDE MINIMUM 1/4" AIR GAP BETWEEN ENCLOSURE AND WALL SURFACE. PROVIDE GALVANIZED METAL CHANNELS FOR MOUNTING ENCLOSURE ONTO WALL AS REQUIRED.
4. WIRING:
   A. WIRES SHALL BE COPPER, U.O.N.
   B. ALL WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED.
   C. POWER AND LIGHTING WIRE INSULATION SHALL BE THHN (DRY) AND THWN (WET), U.O.N.
5. CONDUITS:
   A. CONDUITS ABOVE GRADE SHALL BE EMT OR RIGID STEEL (RMC). WHERE FLEXIBILITY IS REQUIRED, CONDUITS ABOVE GRADE INDOORS SHALL BE FLEXIBLE METAL CONDUIT (FMC) AND OUTDOORS SHALL BE LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC). CONDUITS BELOW GRADE OR IN CONTACT WITH EARTH SHALL BE PVC-40.
   B. CONDUITS BELOW GRADE OR IN CONTACT WITH EARTH SHALL BE PVC-40.
   C. EXPOSED CONDUIT SHALL BE RIGID STEEL CONDUIT WITH THREADED FITTINGS. EMT MAY BE USED 10 FT. A.F.F.
   D. PROVIDE A SEPARATE GROUND WIRE IN ALL BRANCH CIRCUITS AND FEEDERS.
   E. CONDUITS ROUTED BELOW GRADE SHALL BE BURIED SUCH THAT THE TOP OF CONDUIT IS MINIMUM 24-IN BELOW FINISHED GRADE.

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR.
D	DEPTH, DEEP.
DIA	DIAMETER.
(E)	EXISTING.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER.
GFI	GROUND FAULT INTERRUPTER.
GND	GROUND.
H	HEIGHT, HIGH.
HVAC	HEATING, VENTILATING, AIR CONDITIONING EQUIPMENT.
IAP	INTRUSION ALARM PANEL.
IDF	INTERMEDIATE DISTRIBUTION FRAME.
(DF1)	INTERMEDIATE DISTRIBUTION FRAME, DESIGNATION AS NOTED.
MT	EMPTY CONDUIT WITH PULL CORD.
MTC	CONDUIT WITH WIRING AS INDICATED OR AS REQUIRED.
(N)	NEW
NA	NOT APPLICABLE.
NIC	NOT IN CONTRACT.
NIES	NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPECIFICATIONS.
NL	NIGHT LIGHT.
NPA	NATIONAL PURCHASING AGREEMENT.
NSA	NATIONAL SERVICE AGREEMENT.
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED.
OFOI	OWNER FURNISHED OWNER INSTALLED.
OH	OVERHEAD
OL	OUTSIDE LIGHT.
(R)	REMOVE.
TBD	TO BE DETERMINED.
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED.
VFCI	EQUIPMENT VENDOR FURNISHED, CONTRACTOR INSTALLED.
VFVI	EQUIPMENT VENDOR FURNISHED, EQUIPMENT VENDOR INSTALLED.
W	WIDTH, WIDE.
WG	WIRE GUARD.
WP	WEATHERPROOF.

ELECTRICAL SYMBOLS LIST

- LIGHT FIXTURE
- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- CONDUIT CONCEALED IN CEILING OR WALL.
- HOMERUN TO RESPECTIVE PANEL OR TERMINAL.
- INDICATES 1#12 (GREEN) GROUND WIRE; OTHER SIZES AS INDICATED.
- BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#12 WIRE CIRCUIT. FOR MORE THAN 2#12 WIRES AS FOLLOWS: 3#12, 4#12, ETC. FOR OTHER SIZES AS FOLLOWS: 3#10, 4#6, ETC. IN ADDITION, PROVIDE EQUIPMENT GROUND CONDUCTOR SIZED PER THE CIRCUIT PROTECTION DEVICE.
- EXISTING CONDUIT RUN TO REMAIN "AS-IS".
- EXISTING CONDUIT RUN TO BE REMOVED OR ABANDONED.
- EQUIPMENT IDENTIFICATION TAG. (N.I.E.S.) CONNECT AS REQUIRED.
- LIGHT FIXTURE DESIGNATION, LETTER INDICATES TYPE, NUMBER INDICATES QUANTITY, NO NUMBER INDICATES A QUANTITY OF ONE.
- PULLBOX, SET FLUSH WITH FINISHED GRADE OR SURFACE.

A.P.N. 017-162-015

BENCHMARK NO. CITY OF ROSEVILLE BM 125 ELEV. 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2014 LS 7351 LOCATED ON THE EAST SIDE OF FIDDYMENT ROAD, 0.2' EAST OF THE CENTERLINE OF FIDDYMENT ROAD AT THE TOP OF CURB WITHIN THE BUS TURNOUT IN FRONT OF THE BUS SHELTER PAD.

HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE: NA

JOB NO.: 20-072

NO.	REVISIONS DESCRIPTION	DATE	AGENCY APPROVAL BY	DATE

DRAWN: MW

CHECKED: TF

SURVEYED ON: 4/24/20

FINAL ISSUED: 4/28/20

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY M. FOX — No. E13701 — Exp. 12/31/21 — ELECTRICAL — STATE OF CALIFORNIA

HARRY A. YEE & ASSOCIATES, INC.
ELECTRICAL ENGINEERS
4920 FREEPORT BLVD., SUITE D
SACRAMENTO, CALIFORNIA 95822
TEL: 916.454.5319
HYA Job #2023

TITLE: ELECTRICAL SYMBOLS, NOTES & SPECS

PROJECT: ROSEVILLE FIDDYMENT SUBSTATION SURVEY AT FIDDYMENT ROAD AND WESTHILL DRIVE

ROSEVILLE, PLACER COUNTY, CALIFORNIA

SHEET NO.

E0.1

PLOTTED: Wednesday, July 22, 2020

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.	
Project Name: ROSEVILLE FIDDYMENT SUBSTATION	Report Page: Page 1 of 6
Project Address: FIDDYMENT ROAD AND WESTHILL DRIVE	Date Prepared: JULY 21, 2020

A. GENERAL INFORMATION

01	Project Location (city)	ROSEVILLE	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	12			
03	Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				
☐ LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval			
☐ LZ-1: Low - Developed Parkland	☑ LZ-3: Moderately High - Urban Areas				

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My project consists of:

01	02	
☑ New Lighting System	Must Comply with Allowances from §140.7.	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ○ No
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100*

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L											Compliance Results		
01		02		03		04		05		06	07	08	09
General Hardscape Allowance §140.7(d)1	+	Per Application §140.7(d)2	+	Sales Frontage §140.7(d)2	+	Ornamental §140.7(d)2	+	Per Specific Area §140.7(d)2	OR	Existing Power §141.0(b)2L	= **Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 Must be ≥ 08**
(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)		(See Table N)			(See Table F)	
	+		+		+			780	OR		780	≥	780	**COMPLIES**
Cutoff Compliance (See Table G for Details)											**Not Applicable**			
Controls Compliance (See Table H for Details)											**COMPLIES with Exceptional Conditions**			

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: ROSEVILLE FIDDYMENT SUBSTATION	Report Page: Page 2 of 6
Project Address: FIDDYMENT ROAD AND WESTHILL DRIVE	Date Prepared: JULY 21, 2020

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table H. Outdoor Lighting Controls Permit Applicant Notes:
EXTERIOR WALL: EACH FIXTURES IS LESS THAN 40 WATTS

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How Wattage is determined	Total number luminaires[3]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b)*	Field Inspector	
										Pass	Fail
A	GROUND UP LIGHT	☐ Linear	13	Mfr. Spec[1]	60	New	☐	780	NA: <6,200 lumens	☐	☐
						Total Designed Watts:		**780**			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope*
[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).*

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: ROSEVILLE FIDDYMENT SUBSTATION	Report Page: Page 3 of 6
Project Address: FIDDYMENT ROAD AND WESTHILL DRIVE	Date Prepared: JULY 21, 2020

G. CUTOFF REQUIREMENTS (BUG)

This Section Does Not Apply

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
EXTERIOR WALL	Photocontrol	Yes	Exempt *	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

EXTERIOR WALL	EACH FIXTURES IS LESS THAN 40 WATTS

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

	01				
	"Use it or lose it" Allowances (select all that apply)				
☐ General Hardscape Allowance	☐ Per Application	☐ Sales Frontage	☐ Ornamental	☑ Per Specific Area	
Table I (below)	Table J	Table K	Table L	Table M	

J. LIGHTING ALLOWANCE: PER APPLICATION

This Section Does Not Apply

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: ROSEVILLE FIDDYMENT SUBSTATION	Report Page: Page 4 of 6
Project Address: FIDDYMENT ROAD AND WESTHILL DRIVE	Date Prepared: JULY 21, 2020

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL

This Section Does Not Apply

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

Table Instructions: Please complete this table for areas using the wattage allowance per specific area type from Table 140.7-B. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire[2]	# of Luminaires[2]	Design Watts	
EXTERIOR WALL	Bldg Façade	5,736	0.17	975.12	A	13	60	780	
							Total Design Watts for this Area:	780	780
								Total Allowance (Watts) All Areas:	**780**

[1] *FOOTNOTES: See Table 140.7-B for the rules for calculating the specific areas (ft²) for these additional lighting allowances.*
[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: ROSEVILLE FIDDYMENT SUBSTATION	Report Page: Page 5 of 6
Project Address: FIDDYMENT ROAD AND WESTHILL DRIVE	Date Prepared: JULY 21, 2020

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
◉	○	NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐
◉	○	NRCI-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
◉	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E (Created 11/19) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: ROSEVILLE FIDDYMENT SUBSTATION	Report Page: Page 6 of 6
Project Address: FIDDYMENT ROAD AND WESTHILL DRIVE	Date Prepared: JULY 21, 2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	TOM YU	Documentation Author Signature:	
Company:	HARRY YEE & ASSOCIATES, INC.	Signature Date:	July 21, 2020
Address:	4920 FREEPORT BLVD, SUITE-D	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	SACRMANETO, CA 95822	Phone:	916-454-5319

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	TOM YU	Responsible Designer Signature:	
Company :	HARRY YEE & ASSOCIATES, INC.	Date Signed:	July 21, 2020
Address:	4920 FREEPORT BLVD, SUITE-D	License:	E13760
City/State/Zip:	SACRAMENTO, CA 95822	Phone:	916-454-5319

017-162-015
A.P.N.
BENCHMARK NO.: CITY OF ROSEVILLE BM 125 ELEV.: 124.455
3-1/4" BRASS DISK STAMPED SEPTEMBER 2014 LS 7351 LOCATED ON THE CENTERLINE OF FIDDYMENT ROAD AT THE TYP OF CURB WITH THE CENTERLINE OF FIDDYMENT ROAD AT THE TYP OF CURB WITH THE BUS TURNOUT IN FRONT OF THE BUS SHELTER PAD.
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: NA
JOB NO.: 20-072

AGENCY APPROVAL			REVISIONS		
	BY	DATE	NO.	DESCRIPTION	DATE

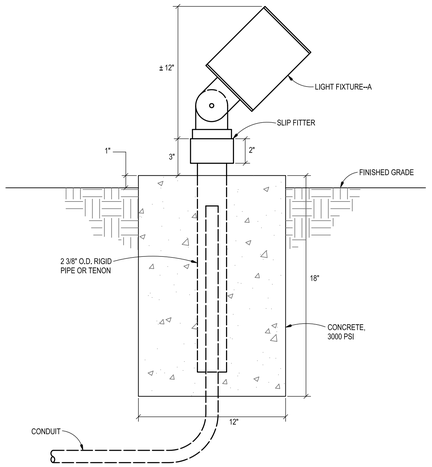
DRAWN: MW
CHECKED: TF
SURVEYED ON: 4/24/20
FINAL ISSUED: 4/28/20

REGISTERED PROFESSIONAL ENGINEER — TOM M. YU — No. E13760 — ELECTRICAL — STATE OF CALIFORNIA

HARRY A. YEE & ASSOCIATES, INC.
ELECTRICAL ENGINEERS
4920 FREEPORT BLVD., SUITE D
SACRAMENTO, CA 95822
TEL: 916.454.5319
HYA Job #20123

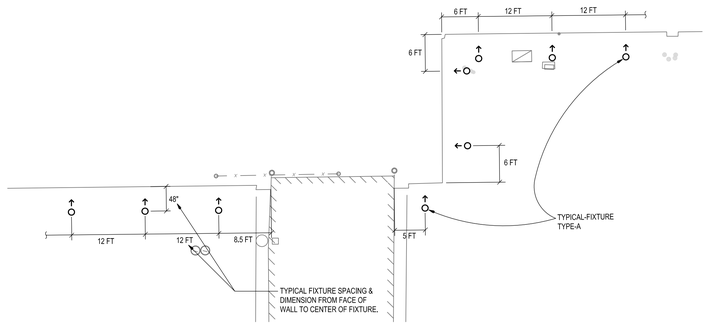
TITLE: ELECTRICAL TITLE 24 CALCULATIONS
PROJECT: ROSEVILLE FIDDYMENT SUBSTATION SURVEY AT FIDDYMENT ROAD AND WESTHILL DRIVE
PLACER COUNTY, CALIFORNIA
ROSEVILLE,
SHEET NO.
E0.5

PLOTTED: Wednesday, July 22, 2020



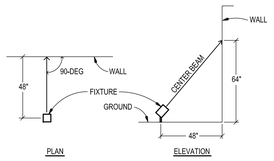
C E1.0 FIXTURE MOUNTING DETAIL

NO SCALE



B E1.0 ENLARGED PARTIAL SITE PLAN

SCALE: 1" = 10'-0"



D E1.0 FIXTURE AIMING

NO SCALE

LIGHT FIXTURE SCHEDULE:

TYPE-A ECOSENSE #F170-15-L-D-40-8-90-X-A
- 1633 LUM AT 40-DEG BEAMSPREAD, 13 WATTS.
- 4000K, 80 CRI, VERY WIDE FLOOD, MED OUTPUT, EXTRUDED ALUM HOUSING, 180-DEG TILT 360-DEG PAN, 110-277V, DIMMABLE TO 5% LED WET RATED IP66 OUTDOOR, RISE-SLIP-FITTING, UL LISTED.
- 11.6"H X 5.2"W, 8.5 LBS.

CONSTRUCTION NOTES

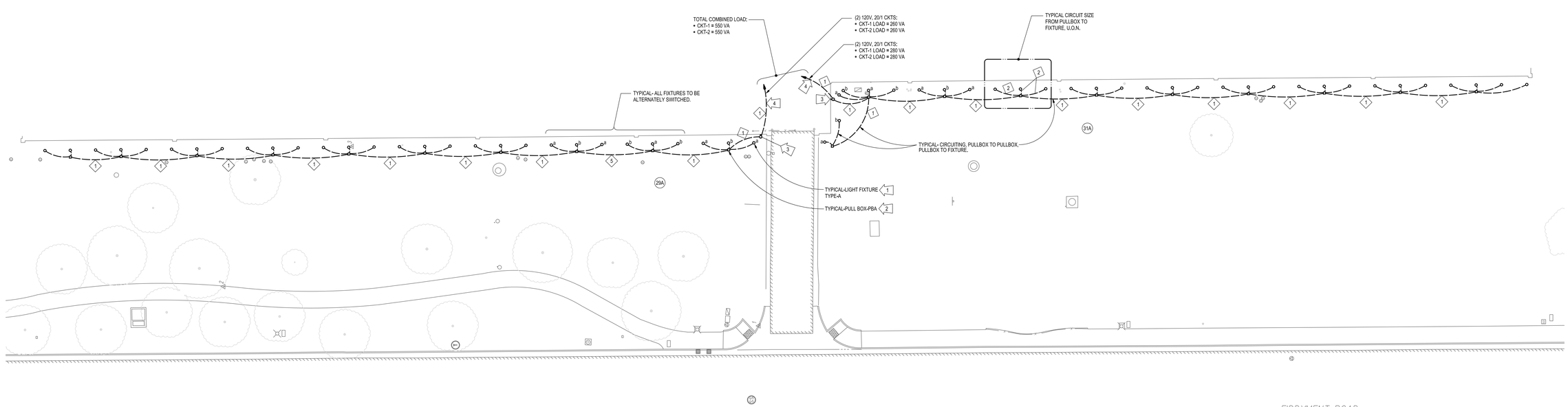
1. SEE LIGHT FIXTURE SCHEDULE.
2. PULL BOX-PBA, CHRISTY N9, N09BOX BOX, N09-61J STEEL LID BOLT DOWN, N90 BOLT DOWN KIT, NON-TRAFFIC. PROVIDE 12" DEEP GRAVEL BELOW BOX FOR DRAINAGE. SET BOX FLUSH WITH FINISHED GRADE. (10.25" x 16.75" x 10"D INTERIOR DIMENSIONS.)
3. 8"SQ x 4"D NEMA-39 JUNCTION BOX, BOTTOM OF BOX +6" AFF. SMOOTH/FLATTEN SPLIT FACE CMU WALL TO ACCEPT BOX. SECURE BOX TO WALL WITH (2) 1/4" HILTI KB-TZ WEDGE ANCHORS WITH MIN 1.5" EMBEDMENT.
4. CIRCUIT FROM JUNCTION BOX TO PANEL & CONTROLS BY OTHERS, N.I.C.

CIRCUIT NOTES:

1. 1"-4#10 & 1#10 (GND).
2. 1"-2#10 & 1#10 (GND).
3. 1"-4#12 & 1#12 (GND).
4. 1"-2#12 & 1#12 (GND).
5. 1"-4#8 & 1#10 (GND).

SHEET NOTES

1. ALL LIGHT FIXTURES SHALL BE ALTERNATELY SWITCHED, ab SWITCHING.
2. PHOTOCONTROLS BY OTHERS.



A E1.0 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

GRAPHIC SCALE
20' 0 10' 20' 40'
(IN FEET) 1 inch = 20 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

017-162-015

A.P.N.

BENCHMARK NO. CITY OF ROSEVILLE BM 125 ELEV. 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2014 LS 7331 LOCATED ON THE SOUTH SIDE OF FIDDYMENT ROAD APPROXIMATELY 1,000 FEET EAST OF THE CENTERLINE OF FIDDYMENT ROAD AT THE TOP CURB WITHIN THE BUS TURNOUT IN FRONT OF THE BUS SHELTER PAD.

HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE: NA

JOB NO.: 20-072

AGENCY APPROVAL

BY	DATE

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN: MW

CHECKED: TF

SURVEYED ON: 4/24/20

FINAL ISSUED: 4/28/20

REGISTERED PROFESSIONAL ENGINEER TOM WOOD No. E13788 Exp. 6/30/21 ELECTRICAL STATE OF CALIFORNIA

HARRY A. YEE & ASSOCIATES, INC.
ELECTRICAL CONSULTANTS
4920 FREEPORT BLVD., SUITE D
SACRAMENTO, CALIFORNIA 95822
TEL: 916.454.5319
HYA Job #2023

TITLE: ELECTRICAL SITE PLAN

PROJECT: ROSEVILLE FIDDYMENT SUBSTATION SURVEY AT FIDDYMENT ROAD AND WESTHILL DRIVE

ROSEVILLE, PLACER COUNTY, CALIFORNIA

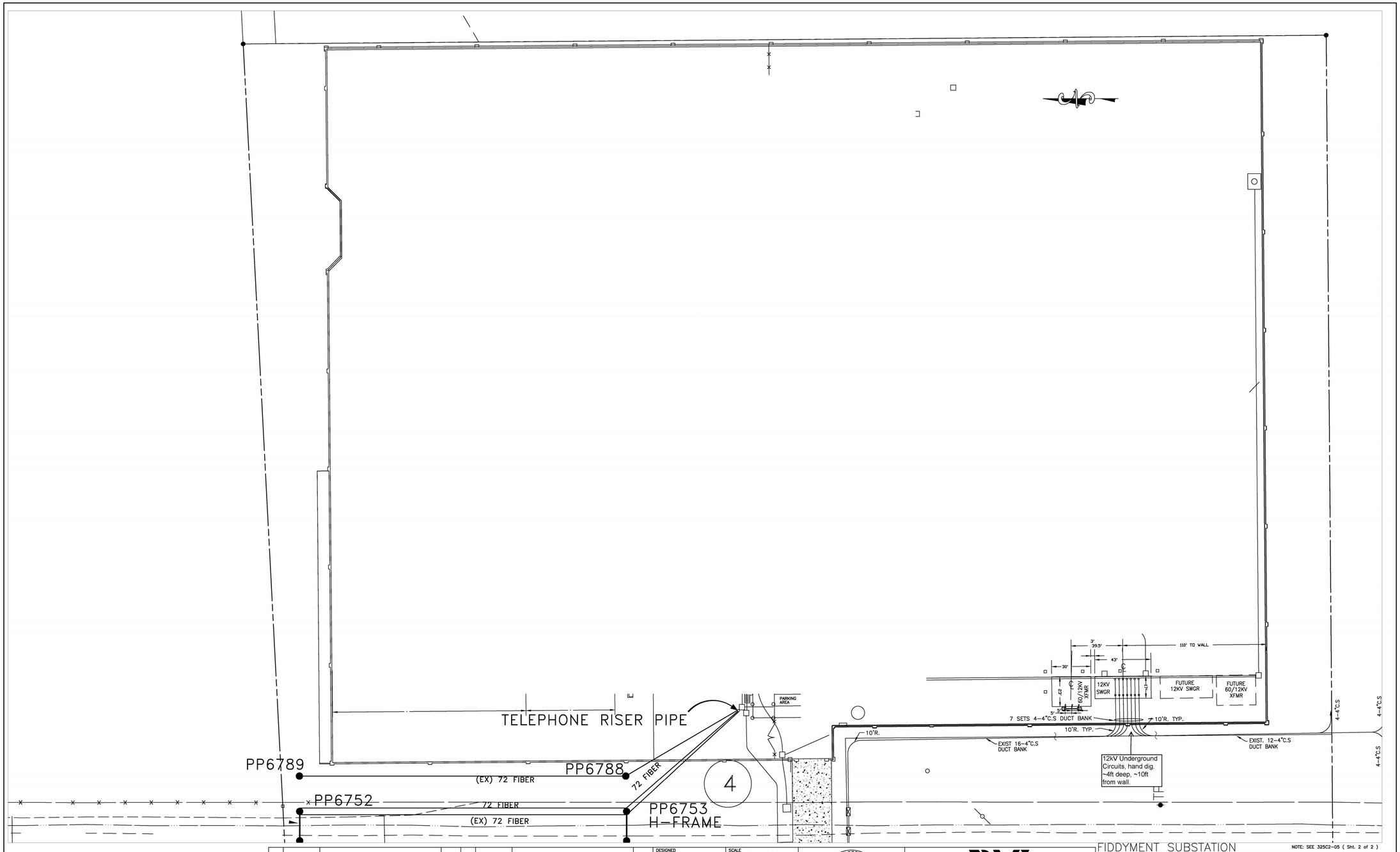
SHEET NO.

E1.0

PLOTTED: Wednesday, July 22, 2020

NOTE

1. THIS PLAN SHALL BE USED AS A REFERENCE FOR EXISTING UNDERGROUND UTILITIES. VERIFY UNDERGROUND UTILITES PRIOR TO DIGGING. COORDINATE WITH OWNER.
2. THERE IS NO WORK ON THIS WORK INCLUDING NO FIBER, ELECTRICAL, LOW VOLTAGE, ETC. SYSTEMS WORK.



NO.	DATE	ISSUED FOR	BY

DESIGNED	JDG
DRAWN	DMM
CHECKED	
APPROVED	WLS
CAD REF.	T:/22004/58/58E5-19
SCALE	1" = 30'
WARNING	0 1/2 1 BAR SHOULD MEASURE 1" OR DRAWING IS NOT TO SCALE
LAST EDIT	9/8/97

CITY OF ROSEVILLE INCORPORATED APRIL 20, 1909

RMI
RESOURCE MANAGEMENT INTERNATIONAL, INC.
3100 ZINFANDEL DR. SACRAMENTO, CA 95670
SACRAMENTO – PORTLAND – AUSTIN – PHOENIX – ORLANDO – COLUMBUS – ALBANY – WEST PALM BEACH

FIDDYMENT SUBSTATION — NOTE: SEE 325C2-05 (Sht. 2 of 2)

11	RL	06/20/13	FIDDYMENT TO BASELINE FIBER INSTALL.	–	VB

Roseville Electric
Reliable Energy - Dependable Service
(916) 774-5601

ENG.: M.FOK	APPR.:	SCALE: 1"=30'	JOB NO. 944013
DR.: J.HANSEN		DATE: 2/5/98	
CONDUIT & TRENCH PLAN			ACCOUNT NO. 40001-6130
Sht. 1 of 3			DRAWING NO. 325C2-01

A.P.N. 017-162-015

BENCHMARK NO. CITY OF ROSEVILLE BM 125 ELEV. 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2014 LS 7331 LOCATED ON THE CENTERLINE OF FIDDYMENT ROAD APPROXIMATELY 1.5 FEET EAST OF THE CENTERLINE OF FIDDYMENT ROAD AT THE TOP OF CURB WITHIN THE BUS TURNOUT IN FRONT OF THE BUS SHELTER PAD.

HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE: NA

JOB NO.: 20-072

AGENCY APPROVAL		
	BY	DATE

REVISIONS		
NO.	DESCRIPTION	DATE

DRAWN: MW

CHECKED: TF

SURVEYED ON: 4/24/20

FINAL ISSUED: 4/28/20

REGISTERED PROFESSIONAL ENGINEER — JOHN E. HANSEN — No. E12782 — ELECTRICAL — STATE OF CALIFORNIA

HARRY A. YEE & ASSOCIATES, INC.
ELECTRICAL ENGINEERS
4920 FREEPORT BLVD., SUITE D
SACRAMENTO, CALIFORNIA 95822
TEL: 916.454.5319
HYA Job #2023

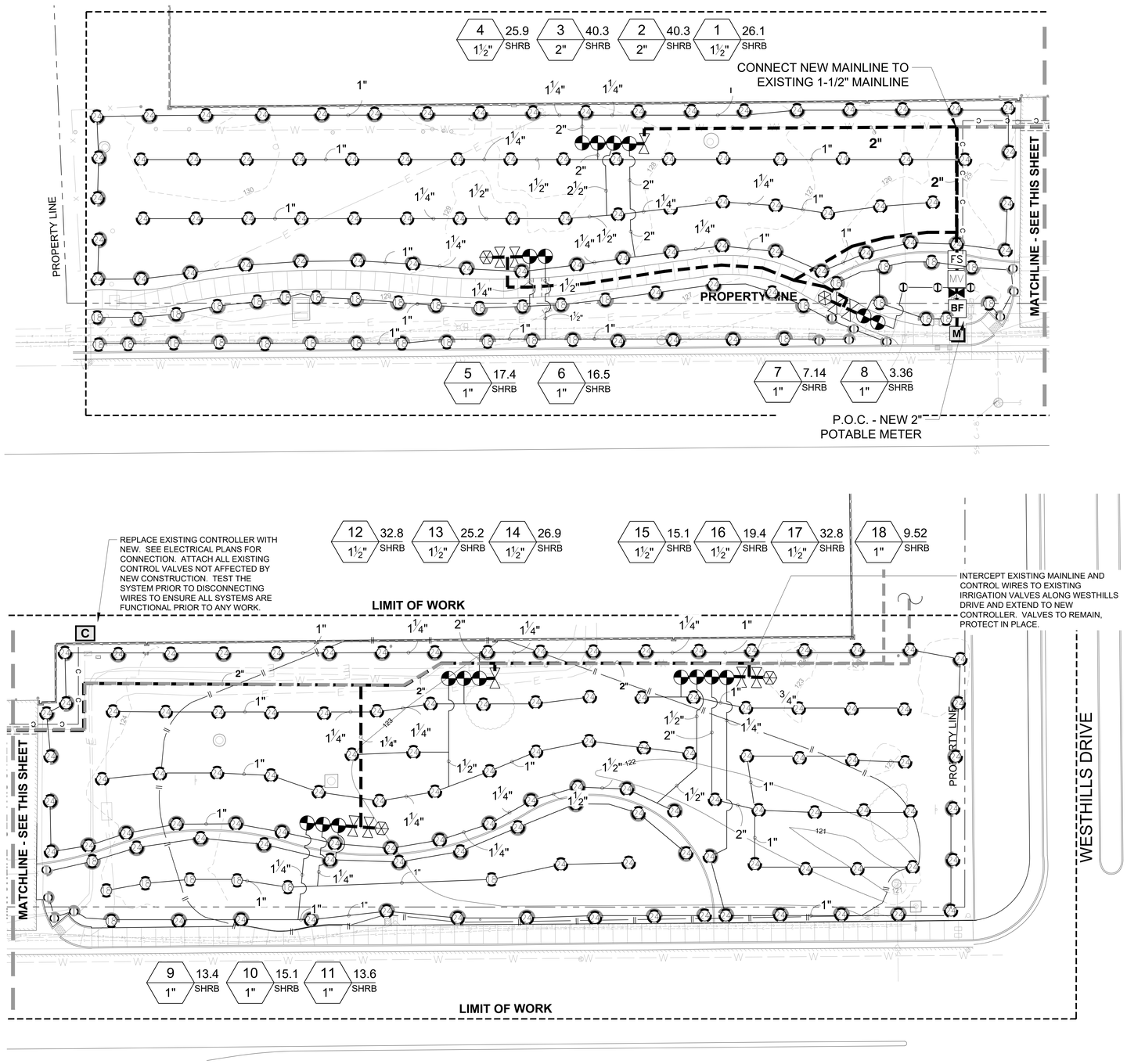
TITLE: REFERENCE ONLY, EXISTING UTILITIES PLAN

PROJECT: ROSEVILLE FIDDYMENT SUBSTATION SURVEY AT FIDDYMENT ROAD AND WESTHILL DRIVE

ROSEVILLE, PLACER COUNTY, CALIFORNIA

SHEET NO. **E2.0**

PLOTTED: Wednesday, July 22, 2020



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
14 ADJ 14 F	RAIN BIRD R-VAN14 1812-SAM-P45 SHRUB ROTARY, 8'-14' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 SHRUB SPRAY BODY ON 12.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	35	PK-14 / LI-2.0
18 ADJ 18 F	RAIN BIRD R-VAN18 1812-SAM-P45 SHRUB ROTARY, 13'-18' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 SHRUB SPRAY BODY ON 12.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	35	
24 ADJ 24 F	RAIN BIRD R-VAN24 1812-SAM-P45 SHRUB ROTARY, 17'-24' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 SHRUB SPRAY BODY ON 12.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	35	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	HUNTER IBV-FS 1", 1-1/2", 2", AND 3" BRASS ELECTRIC REMOTE CONTROL VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH FILTER SENTRY FACTORY INSTALLED OPTION.	PK-15 / LI-2.0
	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3"	PK-11 / LI-2.0
	SPEARS 2122 BALL VALVE SHUT OFF VALVE AT MANIFOLDS. BRONZE GLOVE VALVE. LINE SIZED.	PK-11 / LI-2.0
MV	BUCKNER-SUPERIOR 3200 2" NORMALLY CLOSED BRASS MASTER VALVE THAT PROVIDES DIRTY WATER PROTECTION AND NO MINIMUM FLOW FEATURE, WHICH ENSURES RELIABLE OPENING AND CLOSING OF THE VALVE IN EXTREME HIGH OR LOW FLOW SCENARIOS. AVAILABLE IN 3/4",1"1-1/2",2",2-1/2" AND 3".	PK-2 / LI-2.0
BF	FEBCO 825Y 2" REDUCED PRESSURE BACKFLOW PREVENTER	W-7 / LI-2.0
C	CONTROLLER CALSENSE CS3-24/GR-3.5 AVAILABLE THROUGH EWING IRRIGATION, 500 BERRY ST #B, ROSEVILLE, CA 95678. WALL MOUNTED IN CABINET.	PK-1 / LI-2.0
FS	2" FLOW SENSOR CALSENSE FLOW METER (FM-B) BRONZE.	PER MANUFACTURER'S RECOMMENDATIONS
M	WATER METER 2"	W-7 / LI-2.0
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	PK-5, 6 / LI-2.0
	IRRIGATION MAINLINE: PVC SCHEDULE 40	
	PIPE SLEEVE: PVC SCHEDULE 40	
C C	COMMUNICATIONS CABLE IN CONDUIT 1-1/4" PVC ELECTRICAL CONDUIT IN TRENCH FOR COMMUNICATION WIRES	

SCALE: 1"=20'-0"

0 10 20 40

NORTH

A.P.N. 017-162-005

BENCHMARK NO. CITY OF ROSEVILLE BM 135 ELEV. 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7321 LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD APPROXIMATELY 300 FEET EAST OF THE CENTERLINE OF FOOTHILL BLVD, 14 FEET SOUTH OF THE CENTERLINE OF THE BUS TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE 1" = 20'-0"

VERTICAL SCALE N/A

JOB NO. 19-106

AGENCY APPROVAL	BY	DATE

REVISION	DATE	NO.

DRAWN BY: LD, CB, MJ

CHECKED BY: JJ

PLOT DATE: 11/30/2020

SCHMIDT DESIGN GROUP
330 Rancheros St., Suite G, San Diego, CA 92026
619.234.8462
LIC. CA 2188 | NV 2791 | AZ 34139
SCHMIDTDESIGN.COM

LANDSCAPE IRRIGATION NOTES AND PLAN

IMPROVEMENT PLANS FOR:

ROSEVILLE FIDDYMENT SUBSTATION

6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.

LI-1.0

IRRIGATION NOTES:

1. THE IRRIGATION SYSTEM DESIGN IS BASED ON AN AVAILABLE WATER PRESSURE OF 60 PSI AT CITY SERVICE. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION AND REPORT ANY DIFFERENCES TO THE CITY OF ROSEVILLE.
2. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY FOR CLARITY. LOCATE ALL PIPING, VALVES, BACKFLOW PREVENTERS, AND OTHER IRRIGATION EQUIPMENT WITHIN PLANTING AREAS UNLESS NOTED OR DIRECTED OTHERWISE.
3. THE IRRIGATION SYSTEM REPAIRS ARE BASED ON AVAILABLE DATA PROVIDED BY AS-BUILT DRAWINGS AND SITE INVENTORY. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND WATER PRESSURE READINGS AT EACH SITE PRIOR TO CONSTRUCTION AND REPORT ANY DIFFERENCES TO THE CITY.
4. EXISTING UTILITIES AND FIELD CONDITIONS: PRIOR TO EXCAVATION, LOCATE ALL CABLES, CONDUITS, AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AN UNDERGROUND UTILITY SERVICE TO LOCATE AND MARK UTILITIES. CONTRACTOR WILL TAKE PROPER PRECAUTIONS NOT TO DAMAGE OR DISTURB SUCH UNDERGROUND IMPROVEMENTS. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IF A CONFLICT EXISTS BETWEEN SUCH OBSTACLES AND THE PROPOSED WORK. PROCEED IN SAME MANNER IF ROCK LAYERS OR ANY OTHER CONDITIONS ENCOUNTERED UNDERGROUND MAKE CHANGES ADVISABLE.
5. CONTRACTOR SHALL REVIEW IRRIGATION SPECIFICATIONS PRIOR TO BEGINNING WORK. REFER TO TECHNICAL SPECIFICATIONS AND CONSTRUCTION DETAILS FOR INSTALLATION PROCEDURES.
6. USE TWO WRAPS OF THREE-QUARTER INCH (3/4") TEFLON TAPE FOR ALL THREADED VALVE CONNECTIONS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTION OF FIELD WIRES TO APPROPRIATE TERMINAL STRIPS. (CONNECT FLOW SENSOR AND MASTER VALVE WIRES TO CONTROLLER PER CITY STANDARDS).
8. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN AREA DIMENSIONS ARE FOUND. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS NECESSARY.
9. THE CONTRACTOR SHALL KEEP AN UP-TO-DATE COMPLETE "AS-BUILT" RECORD SET OF PRINTS WHICH SHALL BE UPDATED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DESIGN. ALL WORK SHALL BE NEAT AND LEGIBLE.
10. CONTRACTOR SHALL HEAT BRAND ALL PLASTIC VALVES BOXES WITH THE FOLLOWING LABELS. ALL LETTERS SHALL BE ONE INCH (1") HIGH. LETTERING ON VALVE BOX LIDS SHALL BE PLACED ON THE SAME LOCATION ON EACH VALVE BOX LID, AND ALL LABELING SHALL FACE THE SAME DIRECTION.
    - CONTROL VALVE BOXES SHALL BE LABELED PER ASSOCIATION WITH IRRIGATION CONTROLLER
    - QUICK COUPLER VALVE BOXES SHALL BE LABELED "QC"
    - ISOLATION BALL VALVE BOX LID WITH THE LETTERS "BV"
    - STUB OUT BOXES SHALL BE LABELED "SO"
    - CHECK VALVE BOX LID WITH LETTERS "CV"
    - FLOW SENSOR BOX LID WITH THE LETTERS "FS"
    - MASTER VALVE BOX LID WITH "MV"
    - AUTOMATIC DRIP SYSTEM FLUSH VALVE WITH "FV"
11. CONTRACTOR WILL BE RESPONSIBLE FOR ANY CITY BUILDING PERMITS OR ENCROACHMENT EASEMENT PERMITS NECESSARY FOR WORK.
12. ALL BOLTS FOR LOCKING VALVE BOX LIDS SHALL BE STAINLESS STEEL.
13. CONTRACTOR WILL PROVIDE TEMPORARY IRRIGATION SYSTEM, OR HAND-WATER EXISTING PLANTING AREAS DURING THE CONSTRUCTION PERIOD. WATERING SHALL BE PERFORMED AT A TIME AS TO NOT INTERFERE WILL NORMAL SCHOOL ACTIVITIES. DISTRICT LANDSCAPE INSPECTOR SHALL BE RESPONSIBLE FOR DETERMINING IRRIGATION NEEDS AND SCHEDULING.
14. WATER COMPANY: CITY OF ROSEVILLE RECYCLED WATER OPERATION AND MAINTENANCE. PHONE NUMBER: (916) 746-1829 (TODD JORDAN).
15. CONTRACTOR SHALL NOT REMOVE ORIGINAL POTABLE WATER BACKFLOWS FEEDING IRRIGATION SYSTEMS UNTIL ALL CROSS CONNECTION TESTS ARE COMPLETED. POTABLE WATER SUPPLY VIA. BACKFLOW IS REQUIRED TO CONDUCT TESTS.
16. CONTRACTOR SHALL COORDINATE WITH CROSS-CONNECTION INSPECTOR BEFORE ANY CONNECTION ON THE IRRIGATION SYSTEM.
17. CALSENSE CONTROLLERS, FLOW SENSOR, MASTER VALVE,PHONE MODEM ALL SHALL BE TESTED AND WRITTEN CERTIFICATION PROVIDED BY CALSENSE TO CITY OF ROSEVILLE PRIOR TO TURN OVER OF PROJECT.
18. SPRAY IRRIGATION IS TO TAKE PLACE ONLY WITHIN THE HOURS OF 8PM AND 10AM.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	HUNTER IBV-FS	1-1/2"	SHRUB ROTARY	26.10	364.6	39.72	53.66	0.30 in/h
2	HUNTER IBV-FS	2"	SHRUB ROTARY	40.32	371.1	38.62	55.51	0.28 in/h
3	HUNTER IBV-FS	2"	SHRUB ROTARY	40.32	377.8	39.21	56.19	0.27 in/h
4	HUNTER IBV-FS	1-1/2"	SHRUB ROTARY	25.92	384.3	39.50	53.61	0.30 in/h
5	HUNTER IBV-FS	1"	SHRUB ROTARY	17.37	480.2	41.49	58.22	0.33 in/h
6	HUNTER IBV-FS	1"	SHRUB ROTARY	16.49	486.8	40.73	57.17	0.31 in/h
7	HUNTER IBV-FS	1"	SHRUB ROTARY	7.14	374.4	39.44	53.78	0.39 in/h
8	HUNTER IBV-FS	1"	SHRUB ROTARY	3.36	380.9	37.70	50.78	0.26 in/h
9	HUNTER IBV-FS	1"	SHRUB ROTARY	13.36	218.0	41.23	54.98	0.26 in/h
10	HUNTER IBV-FS	1"	SHRUB ROTARY	15.06	211.3	40.37	54.40	0.24 in/h
11	HUNTER IBV-FS	1"	SHRUB ROTARY	13.61	204.8	41.49	55.12	0.25 in/h
12	HUNTER IBV-FS	1-1/2"	SHRUB ROTARY	32.76	220.3	38.98	55.48	0.28 in/h
13	HUNTER IBV-FS	1-1/2"	SHRUB ROTARY	25.20	213.9	39.34	53.88	0.28 in/h
14	HUNTER IBV-FS	1-1/2"	SHRUB ROTARY	26.94	207.5	39.79	54.70	0.29 in/h
15	HUNTER IBV-FS	1-1/2"	SHRUB ROTARY	15.12	334.8	39.45	52.92	0.27 in/h
16	HUNTER IBV-FS	1-1/2"	SHRUB ROTARY	19.40	328.2	39.98	54	0.30 in/h
17	HUNTER IBV-FS	1-1/2"	SHRUB ROTARY	32.76	321.9	39.03	56.46	0.35 in/h
18	HUNTER IBV-FS	1"	SHRUB ROTARY	9.52	315.7	40.66	53.32	0.27 in/h
	Common Wire				1,147			

CRITICAL ANALYSIS

Generated:	2020-11-13 1
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Water Meter Size:	2"
Flow Available:	70.55 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	65.00 psi
Elevation Change:	5.00 ft
Service Line Size:	2"
Length of Service Line:	20.00 ft
Pressure Available:	62.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	40.32 gpm
Flow Available at POC:	70.55 gpm
Residual Flow Available:	30.23 gpm
Critical Station:	5
Design Pressure:	35.00 psi
Friction Loss:	3.17 psi
Fittings Loss:	0.32 psi
Elevation Loss:	0.00 psi
Loss through Valve:	3.00 psi
Pressure Req. at Critical Station:	41.49 psi
Loss for Fittings:	0.41 psi
Loss for Main Line:	4.09 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	11.30 psi
Loss for Master Valve:	0.53 psi
Loss for Water Meter:	0.40 psi
Critical Station Pressure at POC:	58.22 psi
Pressure Available:	62.00 psi
Residual Pressure Available:	3.78 psi

Project: Roseville Fiddyment Substation
Date: 13-Nov-20
Project No.: 19-106
Prepared by: Schmidt Design Group, Inc.

WATER SCHEDULE DEVELOPED UTILIZING HISTORICAL ET RATE FOR THE HIGHEST EVAPOTRANSPIRATION MONTH RECORDED YEARLY (JULY ET RATES WERE USED TO DETERMNE THE BASE WATER SCHEDULE)

Time Available for Overhead Watering: 8pm to 10am. (Note: no watering to be used between 10am and 8pm)

FORMULA: T= (60 X ET X PF) / (PR X EA) X 7 / 3 where:

T = Irrigation Time (in minutes)
ET = Evapotranspiration Rate per Day= 0.246 (CIMIS Station #131 Annual - 51.11, July month - 7.62)
PF = Crop Coefficient (0.3 Low and 0.5 Moderate for Shrubs / 0.5 for Trees / 0.65 for Turf)
PR = Precipitation Rate (1.93 Bubblers, 0.39 for Rotary Sprays, 0.73 or 0.46 for Turf Rotor Based on Model)
EA = Application Efficiency (0.7 for Turf Rotor, 0.75 for Rotary; 0.81 for Bubblers)

		minutes per day	ET	PF	PR	EA	water days	water days per week	Minutes per run day
SHRUB ROTARY	=	60	0.246	0.3	0.39	0.75	7	3	35

STATION TYPE	GPM	Station	Run Time
SHRUB ROTARY	26.10	1	35
SHRUB ROTARY	40.32	2	35
SHRUB ROTARY	40.32	3	35
SHRUB ROTARY	25.92	4	35
SHRUB ROTARY	17.37	5	35
SHRUB ROTARY	16.49	6	35
SHRUB ROTARY	7.14	7	35
SHRUB ROTARY	3.36	8	35
SHRUB ROTARY	13.36	9	35

STATION TYPE	GPM	Station	Run Time
SHRUB ROTARY	15.06	10	35
SHRUB ROTARY	13.61	11	35
SHRUB ROTARY	32.76	12	35
SHRUB ROTARY	25.20	13	35
SHRUB ROTARY	26.94	14	35
SHRUB ROTARY	15.12	15	35
SHRUB ROTARY	19.40	16	35
SHRUB ROTARY	32.76	17	35
SHRUB ROTARY	9.52	18	35
	13.60	AVG	

Total Minutes per Day =	**635.8**	**minutes**
Total Hours per Day =	**10.60**	**hrs**
Total Hours/Day @ 2 Valves/Cycle =	**5.30**	**hrs**

IRRIGATION TYPE	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
SHRUB ROTARY	-	-	X	-	X	-	X

Scheduling Parameters for various conditions:
Plant Establishment period - Increase water times and days as required to encourage rooting and plant establishment

Shrubs:	Water daily for first two weeks to encourage rooting - monitor health of plants and slowly reduce to standard watering schedule within 60 days

Established Landscape - Set Base Watering schedule in controller per the above scheduling parameters (Based on Summer time water budgetting)

Shrubs:	Adjust base schedule seasonally based on historical ET values or utilize local weather station data for daily or seasonal adjustments

Temporarily Irrigated Areas - No temporary irrigated areas exist on this site.

Seasonal Adjustment Factors

Summer	(June - August) Base Schedule - 100% (adjust based on weather conditions)
Fall	(Sept - Nov) Base Schedule - 10% reduction (Adjust based on weather conditions) Turn off during periods of rain
Winter	Dec- Feb) Base Schedule - 20% reduction (Adjust based on weather conditions) Turn off during periods of rain
Spring	(Mar - May) Base Schedule - 20% reduction (Adjust based on weather conditions) Turn off during periods of rain

Note: Irrigation schedule to be set consistent with the Water Efficient Landscape Ordinance and shall not exceed the values indicated in the MAWA. Owner/ Maintenance contractor shall review water bills monthly to confirm monthly and annual water consumption are within the parameters set in the MAWA Calculations.

Project Name: Roseville Fiddyment Substation
PROJECT WATER USE ANALYSIS

Description	MAWA	ETWU	Hydrozones					
			ETAF	High Water Use	Moderate Water Use	Low Water Use	Very Low Water Use	Total Usage
Total Landscape Area (Square Feet)	82,100	Hydrozone Area S.F. (HA)			7,435	74,665		
Total as Special Landscape Area (SLA)	0	SLA Hydro Area		0			0	0 SqFt
Irrigation Efficiency (IE)	NA	Irrigation Efficiency (IE)		Irr. Type 0.75	Irr. Type 0.75	Irr. Type 0.75	Irr. Type 0.75	
Reference Evapotranspiration (Eto)	51.11	Ref ET (Eto)		51.11	51.11	51.11	51.11	
Plant Factor (PF) - H=.8/.7, M=.6/.5, L=.4/.3, VL=.2/.1	NA	Plant Factor (PF)		0.7	0.5	0.3	0.1	
ET Adjustment Factor (ETAF) for non residential projects	0.45	ETAF (PF/IE)		0.93	0.67	0.40	0.13	
Conversation Factor (Inches to Gallons)	0.62	Conversation Factor		0.62	0.62	0.62	0.62	
Eto x .62 x [(ETAF x Land Area) + ((1-ETAF) x SLA)]	1,170,720.5	(ETAF x Area) Eto x .62 x (ETAF x Area) ETo x 0.62 x (SLA Area)		0.00 0 0.00	4,956.67 157,068 0.00	29,866.00 946,400 0.00	0.00 0 0.00	34,822.7 SqFt 1,103,467.6 Gal/Yr 0.0 Gal/Yr
Total Gallons Per Year	1,170,720.5	1,103,467.6						1,103,467.6 Gal/Yr
		Project Average ETAF	1.0	(Proj. Ave. ETAF < MAWA ETAF)				

Anticipated evapotranspiration rates for the site are based on historical averages.
This data is collected from C.I.M.I.S.(California Irrigation Management Information System)

IE = All overhead spray = 0.75; Subsurface irrigation such as Bubblers and Drip = 0.81
Data from the C.I.M.I.S Station #131 was used.

A.P.N. 017-162-005

BENCHMARK NO.: CITY OF ROSEVILLE BM 135 ELEV.: 124.455
3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7321
LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD
APPROXIMATELY 1300 FEET EAST OF THE CENTERLINE OF FIDDYMENT ROAD, 4.4 FEET SOUTH OF THE SOUTHERLINE OF TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: N/A
JOB NO. 19-106

AGENCY APPROVAL

BY	DATE

REVISION

NO.	DATE

DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/30/2020

SCHMIDT DESIGN GROUP
1310 Rosecrans St., Suite G, San Diego, CA 92106
619.234.8422
LIC. CA 2338 | NV 7791 | AZ 34139
SCHMIDTDESIGN.COM

LANDSCAPE IRRIGATION NOTES & CALCULATIONS

IMPROVEMENT PLANS FOR:
ROSEVILLE FIDDYMENT SUBSTATION
6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.
LI-1.1

NOTES:

NO WATER SHALL BE DRAWN THROUGH THE BACKFLOW DEVICE UNTIL IT HAS BEEN TESTED BY THE ENVIRONMENTAL UTILITIES DEPT.

WATER METERS SHALL BE PURCHASED THROUGH THE CITY. PURCHASE INCLUDES INSTALLATION.

THE BACKFLOW DEVICE SHALL BE INSULATED WITH A CITY APPROVED FREEZE PROTECTION BAG.

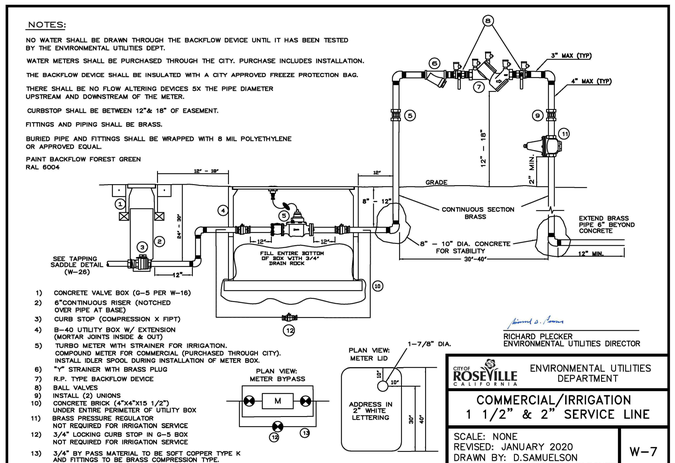
THERE SHALL BE NO FLOW ALTERING DEVICES 5X THE PIPE DIAMETER UPSTREAM AND DOWNSTREAM OF THE METER.

CURBSTOP SHALL BE BETWEEN 12" & 18" OF EASEMENT.

FITTINGS AND PIPING SHALL BE BRASS.

BURIED PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE OR APPROVED EQUAL.

PAINT BACKFLOW FOREST GREEN RAL 6004



1) CONCRETE VALVE BOX (O-5 PER W-16)
2) 6"CONTINUOUS RISER (NOTCHED OVER PIPE AT BASE)
3) CURB STOP (COMPRESSION X FIPT)
4) B-40 UTILITY BOX W/ EXTENSION (MORTAR JOINTS INSIDE & OUT)
5) TURBO METER WITH STRAINER FOR IRRIGATION. COMPOUND METER FOR COMMERCIAL (PURCHASED THROUGH CITY). INSTALL IDLER SPOOL DURING INSTALLATION OF METER BOX.
6) "Y" STRAINER WITH BRASS PLUG
7) R.P. TYPE BACKFLOW DEVICE
8) BALL VALVES
9) INSTALL (2) UNIONS
10) CONCRETE BRICK (4"x4"X15 1/2") UNDER ENTIRE PERIMETER OF UTILITY BOX
11) BRASS PRESSURE REGULATOR NOT REQUIRED FOR IRRIGATION SERVICE
12) 3/4" LOCKING CURB STOP IN G-5 BOX NOT REQUIRED FOR IRRIGATION SERVICE
13) 3/4" BY PASS MATERIAL TO BE SOFT COPPER TYPE K AND FITTINGS TO BE BRASS COMPRESSION TYPE. NOT REQUIRED FOR IRRIGATION SERVICE

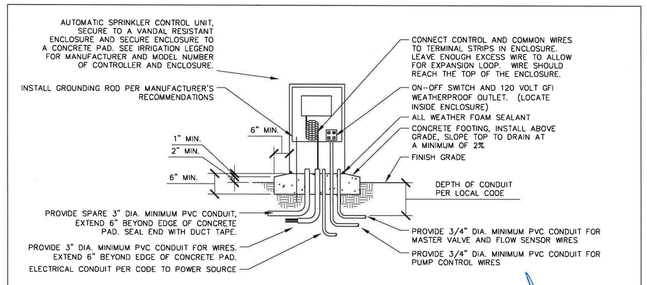
RICHARD PLECKER
ENVIRONMENTAL UTILITIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — ENVIRONMENTAL UTILITIES DEPARTMENT

COMMERCIAL/IRRIGATION 1 1/2" & 2" SERVICE LINE

SCALE: NONE
REVISED: JANUARY 2020
DRAWN BY: D.SAMUELSON
APPROVED BY: RICHARD PLECKER

W-7



NOTES

1. COMMON WIRE TO BE WHITE & CONTROL WIRE TO BE RED IN COLOR. BUNDLE AND TAPE AT INTERVALS OF 10 FT. O. C.
2. NO SPLICES SHALL BE MADE BETWEEN CONTROLLER AND REMOTE CONTROL VALVES UNDER 500 LINEAL FEET.
3. ORDER WITH MANUFACTURER'S FACTORY FINISH STAINLESS STEEL.
4. INSULATE AROUND INSIDE BASE OF BOX WITH ALL WEATHER FOAM SEALANT.
5. GROUNDING ROD SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS..
6. GROUND TEST TO BE CONDUCTED AFTER INSTALLATION, NOT TO EXCEED 25 OHMS.
7. MASTER VALVE WIRE SHALL BE BLUE.
8. PROVIDE COLOR CODED MAP OF VALVE LOCATIONS.

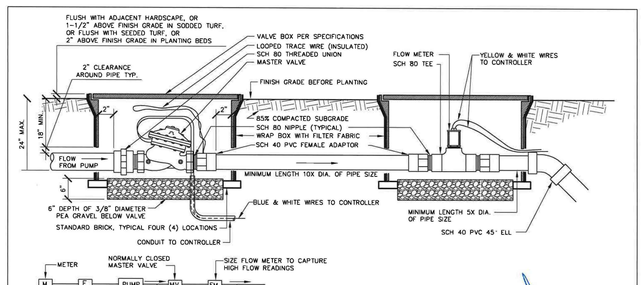
DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

CONTROLLER

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK-1



SCHEMATIC DRAWING FOR TWO FLOW METERS

NOTES

1. INSTALL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANTER BEDS WHEREVER POSSIBLE.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. INSTALL VALVE BOX SO THAT TOP OF BOX IS FLUSH WITH ADJACENT HARDSCAPING.
5. USE TEFLON TAPE ON ALL MALE THREADS.
6. INSULATE AROUND PIPE AT BOX OPENINGS WITH PLASTIC SHEETING TO PREVENT SOIL FROM ENTERING BOX.
7. REFER TO SPECIFICATIONS FOR REQUIREMENTS FOR TAPING, EXPANSION COILS, WIRE CONNECTIONS, ETC.
8. FOR USE WITH CALSENSE CONTROLLERS ONLY.

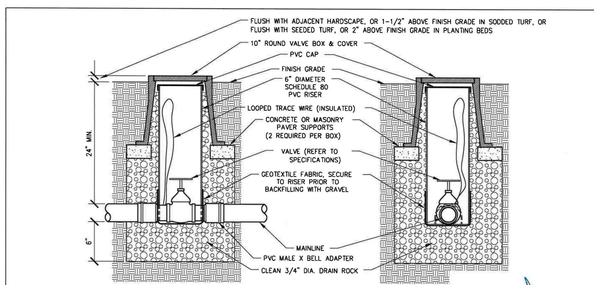
DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

MASTER VALVE CALSENSE

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK-2



DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

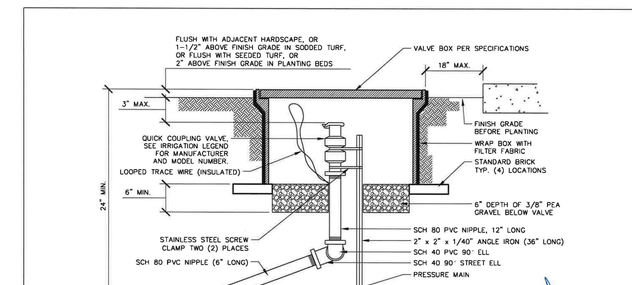
PIPE AT PAVEMENT

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK-5

NOTES

1. ALL SLEEVES TO BE SCHEDULE 40 PVC.
2. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING.
3. CAP BOTH ENDS OF ALL SPARE SLEEVES AND MARK BOTH ENDS WITH 3M LOCATOR BALLS.
4. INSTALL SPARE SLEEVE UNDER ROADWAYS



DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

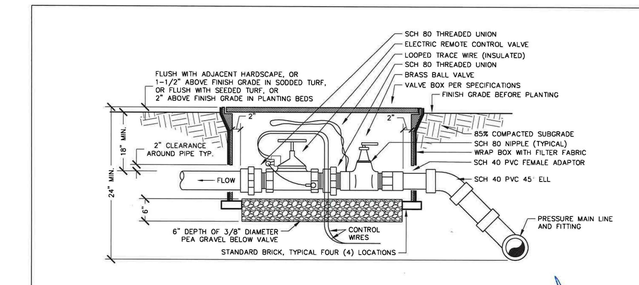
PIPE TRENCH

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK-6

NOTES

1. RECLAIMED WATER REQUIRES BURIED TAPE LINE PER PUBLIC WORKS CONSTRUCTION STANDARDS.



DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

POP-UP ROTOR

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK-7

NOTES

1. LOCATE HEAD 2" FROM WALKS, CURBS, HARDSCAPING, MOW STRIPS, AND HEADER BOARDS.
2. LOCATE HEAD 12" FROM ALL STRUCTURES.
3. USE TEFLON TAPE ON ALL THREADED FITTINGS. DO NOT USE MARLEX FITTINGS.
4. SWING JOINT ASSEMBLY PIPE SIZE MUST MATCH INLET SIZE OF SPRINKLER.
5. PREFABRICATED SWING JOINTS ARE ALLOWED, UPON APPROVAL.

DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

VALVE 3" AND SMALLER

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK-11

NOTES

1. COMPACT SOIL AROUND BOX TO 90% MINIMUM COMPACTION.
2. PLACE DRAIN ROCK PRIOR TO INSTALLING VALVE BOX.
3. GATE VALVE AND FITTINGS SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
4. USE TEFLON TAPE ON ALL THREADED FITTINGS.
5. LOCATE VALVES IN SHRUB/GROUNDCOVER AREAS WHENEVER POSSIBLE.
6. LOOP EXTRA TRACER WIRE UP TO TOP OF BOX.

DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

VALVE QUICK COUPLING

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK-14

NOTES

1. INSTALL VALVE BOXES SO THAT THE TOP OF THE BOX IS FLUSH WITH THE TOP OF THE ADJACENT HARDSCAPE.
2. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

NOTES

1. INSTALL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANTER BEDS WHEREVER POSSIBLE.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. INSTALL VALVE BOX SO THAT TOP OF BOX IS FLUSH WITH ADJACENT HARDSCAPING.
5. USE TEFLON TAPE ON ALL MALE THREADS.
6. PROVIDE SCHEDULE 80 THREADED UNION ON DOWNSTREAM SIDE.
7. INSULATE AROUND PIPE AT BOX OPENINGS WITH PLASTIC SHEETING TO PREVENT SOIL FROM ENTERING BOX.
8. REFER TO SPECIFICATIONS FOR REQUIREMENTS FOR TAPING, EXPANSION COILS, WIRE CONNECTIONS, ETC.
9. ALL RCV'S SHALL BE TAGGED INDICATING STATION #'S.
10. ALL VALVE BOXES SHALL HAVE STATION #'S PERMANENTLY BURNED ON VALVE BOX LIDS. MARKINGS SHALL BE AS FOLLOWS:
    TURF VALVES: T#
    LANDSCAPE AREA VALVES: L#
    BUBBLER VALVES: B#

DION LOUTHAN, CPRP
PARKS, RECREATION & LIBRARIES DIRECTOR

CITY OF ROSEVILLE CALIFORNIA — PARKS, RECREATION, & LIBRARIES DEPARTMENT

VALVE REMOTE CONTROL AT GRADE

SCALE: NONE
REVISED: JULY 2017
REVIEWED BY: T. GEE
APPROVED BY: D. LOUTHAN

PK-15

A.P.N. 017-162-015

BENCHMARK NO.: CITY OF ROSEVILLE BM 135 ELEV. 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7321 LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD APPROXIMATELY 300 FEET EAST OF THE CENTERLINE OF FIDDYMENT ROAD, 4 FEET SOUTH OF THE CENTERLINE OF THE TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: N/A
JOB NO. 19-106

AGENCY APPROVAL

REVISION NO.	DATE	BY	DATE

DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/30/2020

SCHMIDT DESIGN GROUP
1310 Rosecrans St., Suite G, San Diego, CA 92106
619.236.0462
LIC. CA 21381 | NV 791 | AZ 34189
sdginfo@sdgla.com

IRRIGATION DETAILS

IMPROVEMENT PLANS FOR:
ROSEVILLE FIDDYMENT SUBSTATION
6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

SHEET NO.
LI-2.0

CONSTRUCTION SPECIFICATIONS

SECTION 01 10 00 SUMMARY OF WORK

PART 1 GENERAL

1.1 GENERAL

A. THE REQUIREMENTS SET FORTH IN THE GENERAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

B. THE REQUIREMENTS SET FORTH IN THE SPECIAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

1.2 PROJECT DESCRIPTION

A. PROJECT NAME AND ADDRESS:

ROSEVILLE FIDDYMENT SUBSTAITION

6821 FIDDYMENT ROAD

ROSEVILLE, CA 95747

B. PROJECT SCOPE OF WORK: THE SCOPE OF THIS PROJECT INCLUDES NEW LANDSCAPE PLANTING, IRRIGATION AND LIGHTING TO THE FRONT OF THE SUBSTATION ALONG FIDDYMENT ROAD.

C. THE CONTRACTOR, PRIOR TO SUBMISSION OF HIS BID, SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PHYSICAL SITE CONDITIONS, THE PLANS AND SPECIFICATIONS. ALL EXISTING SITE CONDITIONS, APPARENT IN A DETAILED, ON-SITE INSPECTION, SHALL BE A PART OF THE PROJECT. SUBMISSION OF A BID SHALL REPRESENT THE CONTRACTOR'S ACKNOWLEDGMENT OF THE EXISTING SITE CONDITIONS AND ITS EFFECT ON THE IMPLEMENTATION OF THE CONTRACT DOCUMENTS.

1.3 ENGINEERING

A. FIELD ENGINEERING, AS A PART OF THIS CONTRACT, SHALL INCLUDE:

A.1. LAYOUT OF THE WORK AND ESTABLISHMENT OF LINES AND GRADES.

A.2. SAID WORK TO BE PERFORMED BY A CALIFORNIA REGISTERED CIVIL ENGINEER OR A CALIFORNIA LICENSED LAND SURVEYOR.

A.3. WHEN DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS ARE DISCOVERED, NOTIFY THE INSPECTOR FOR INSTRUCTION ON HOW TO PROCEED.

A.4. ALL WORK SHALL:

A.4.1. ESTABLISH INDICATED LAYOUT IN RELATION TO THE PROPERTY SURVEY AND EXISTING REFERENCE POINTS.

A.4.2. ESTABLISH AND PRESERVE PERMANENT REFERENCE POINTS DURING THE COURSE OF CONSTRUCTION

A.4.3. SET LOCATIONS AND ELEVATIONS OF ALL SITE ELEMENTS AS REQUIRED FOR PROPER COMPLETION OF THE WORK.

1.4 PERMITS, FEES AND NOTICES

A. THE CONTRACTOR AND/OR HIS ASSIGNED SUBCONTRACTORS SHALL OBTAIN ANY AND ALL REQUIRED PERMITS FROM ALL GOVERNING AUTHORITIES, INCLUDING OTHER CITY DEPARTMENTS, PRIOR TO START OF CONSTRUCTION.

1.5 CONSTRUCTION PLANS

A. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE CITY'S PROJECT MANAGER IMMEDIATELY. THE CITY'S PROJECT MANAGER WILL CLARIFY DISCREPANCIES OR OMISSIONS, IN WRITING, WITHIN A REASONABLE TIME.

B. IN RESOLVING INCONSISTENCIES AMONG TWO OR MORE SECTIONS OF THE CONTRACT DOCUMENTS, PRECEDENCE SHALL BE GIVEN IN THE FOLLOWING ORDER:

B.1. NOTICE TO CONTRACTORS

B.2. SPECIAL PROVISIONS

B.3. CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS

B.4. CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS

B.5. DRAWINGS

ADDENDA SHALL TAKE PRECEDENCE OVER ALL SECTIONS REFERENCED THEREIN. FIGURE DIMENSIONS ON DRAWINGS SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS. DETAILED DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL DRAWINGS.

1.6 DEFINITIONS

A. THE TERM "ACCEPTED" WHERE USED WITHIN, SHALL MEAN ACCEPTED IN WRITING BY THE CITY OF ROSEVILLE'S PROJECT MANAGER.

B. THE TERM "INSPECTOR", WHERE NOTED, SHALL MEAN THE PROJECT REPRESENTATIVE, APPOINTED BY THE CITY OF ROSEVILLE, WHO WILL OVERSEE THE PROJECT ON A DAY-TO- DAY BASIS.

C. THE TERM "PROJECT MANAGER", WHERE NOTED, SHALL MEAN THE PROJECT REPRESENTATIVE APPOINTED BY THE PARKS DEPARTMENT.

D. THE TERM "CONSULTANT", WHERE NOTED, SHALL MEAN THE PRIME CONSULTANT LISTED ON THE COVER SHEET OF THESE SPECIFICATIONS.

E. THE TERM "ACCEPTED EQUAL", WHERE USED HEREIN, SHALL MEAN THE EQUAL IN THE OPINION OF THE PROJECT MANAGER, IN CONSULTATION WITH THE CONSULTANT, WHEN NECESSARY, AND AS ACCEPTED IN WRITING BY THE PROJECT MANAGER.

F. THE TERM "PROJECT OWNER", WHERE USED HEREIN, SHALL MEAN THE LANDOWNER OR DEVELOPER.

G. THE TERM "PROVIDE", WHERE USED HEREIN, SHALL MEAN FURNISH AND INSTALL COMPLETE.

H. THE TERM "AS SELECTED", WHERE USED HEREIN, SHALL MEAN AS SELECTED BY THE CONSULTANT AND AS ACCEPTED BY THE PROJECT MANAGER.

I. THE TERM "SUBSTANTIALLY COMPLETE", WHERE USED HEREIN, SHALL MEAN THE STATE OF WHICH THE PROJECT CAN BE USED IN THE MANNER OF WHICH IT IS INTENDED WITH THE EXCEPTION OF MINOR ITEMS AS DETERMINED BY THE PROJECT MANAGER.

J. SEE SECTION 1 OF THE GENERAL CONDITIONS FOR ADDITIONAL DEFINITIONS AND TERMS.

1.7 STANDARDS

A. NUMEROUS STANDARDS ARE REFERENCED IN THESE CONTRACT DOCUMENTS. THE REFERENCED STANDARDS SHALL BE THE CURRENT EDITION AS OF THE DATE OF THESE CONTRACT DOCUMENTS. ALSO, SEE SECTION 4 - 1.02 OF THE GENERAL CONDITIONS.

B. THE CODES ADOPTED BY THE CITY, COUNTY, STATE AND FEDERAL AGENCIES SHALL GOVERN MINIMUM REQUIREMENTS FOR THIS PROJECT. WHERE CODES CONFLICT WITH THESE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY, AND SUCH CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER. CALTRANS STANDARDS SHALL BE APPLIED WHERE SPECIFICALLY REFERENCED. IN THE ABSENCE OF SPECIFIC REFERENCE REQUIREMENTS IN THE CONTRACT DOCUMENTS, THE APPLICABLE CODES SHALL GOVERN.

C. IN ADDITION TO THE STANDARDS NOTED IN INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS, STANDARDS OF THE FOLLOWING ORGANIZATIONS SHALL BE NOTED BY INITIALS ONLY.

AMERICAN NATIONAL STANDARDS INSTITUTE.

AMERICAN SOCIETY FOR TESTING AND MATERIALS.

1.8 SUBMITTALS

A. ALL SUBMITTALS SHALL BE SUBMITTED AT ONE TIME WITHIN TEN (10) WORKING DAYS FROM ISSUANCE OF NOTICE TO PROCEED. THE REVIEW TIME FOR SUBMITTALS SHALL BE NO LONGER THAN ONE WEEK UNLESS AGREED UPON BY ALL PARTIES. ITEMS RETURNED FOR RE-SUBMITTAL SHALL BE RETURNED TO THE CITY WITHIN TWO WEEKS

B. THE CONTRACTOR SHALL INCLUDE A COVER SHEET INDICATING THE FOLLOWING:

B.1. DRAWING SHEET OR SPECIFICATION SECTION REFERENCE (BY SECTION, PARAGRAPH AND SUB-PARAGRAPH NUMBERS);

B.2. ITEM DESCRIPTION;

B.3. INDICATION WHETHER THIS ITEM IS "AS SPECIFIED" OR "PROPOSED SUBSTITUTION" AND

B.4. A SPACE FOR ITEMIZED RESPONSE SUMMARY, E.G. "REVIEWED" OR "RESUBMIT".

C. CONTRACTOR SHALL SUBMIT A MINIMUM OF TWO COPIES/SAMPLES OF EACH SUBMITTAL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SUMMARY SHEET AND THE APPROPRIATE NUMBER OF COPIES ARE INCLUDED IN THE SUBMITTAL PACKAGE. INCOMPLETE SUBMITTAL PACKAGES (I.E., THE LACK OF A SUMMARY SHEET OR LACK OF THE APPROPRIATE NUMBER OF COPIES) WILL NOT BE REVIEWED.

D. PROPOSED SUBSTITUTION REQUESTS MUST INCLUDE A COMPARISON BETWEEN THE ORIGINALLY SPECIFIED ITEM AND THE PROPOSED SUBSTITUTE. THE BURDEN OF PROOF OF COMPLIANCE FOR PROPOSED SUBSTITUTIONS WITH PROJECT REQUIREMENTS RESTS WITH THE CONTRACTOR. COORDINATION OF THE INSTALLATION OF ACCEPTED SUBSTITUTIONS, INCLUDING INCIDENTAL CHANGES/MODIFICATIONS TO ACCOMMODATE PROPOSED PRODUCTS SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

E. WHERE REQUIRED IN SPECIFIED SECTION OF THESE SPECIFICATIONS, SUBMITTALS SHALL INCLUDE PROOF OF ORDER OF SITE FURNISHINGS, PLAY EQUIPMENT OR OTHER MATERIALS WITHIN TWO WEEKS (TEN WORKING DAYS) FROM ISSUANCE OF NOTICE TO PROCEED. SUBMITTALS OF ORDERS SHALL BE MADE AT ONE TIME. EXCEPTIONS WILL BE CONSIDERED, WITH JUSTIFICATION.

1.9 TESTS

A. IN ADDITION TO SECTION 4 - 1.03 OF THE GENERAL CONDITIONS, TESTING AND INSPECTIONS MAY BE PERFORMED BY A PRIVATE TESTING LABORATORY. THE TESTING LABORATORY, PROVIDED BY THE CITY, SHALL BE UNDER THE DIRECTION OF A CALIFORNIA REGISTERED CIVIL ENGINEER. ALL WORK SHALL CONFORM TO REQUIREMENTS SET FORTH BY ASTM B329, AND SHALL BE ACCEPTABLE TO THE CITY.

B. COPIES OF THE LABORATORY REPORTS/RESULTS OF EACH TEST OR INSPECTION SHALL BE PROVIDED TO THE PROJECT MANAGER, INSPECTOR AND CONTRACTOR.

1.10 TEMPORARY FACILITIES

A. SANITARY PROVISIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXISTING RESTROOM FACILITIES SHALL BE NOT UTILIZED BY THE CONTRACTOR, HIS SUB-CONTRACTORS, OR EMPLOYEES THEREOF, UNLESS SPECIFICALLY ACCEPTED BY THE PROJECT MANAGER. PROVIDE CHEMICAL TOILETS OR WATER CLOSETS AND URINALS CONNECTED TO THE SEWER IN A LOCATION ACCEPTED BY THE PROJECT MANAGER.

B. BARRICADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ERECTED AS NECESSARY TO PROTECT THE PROPERTY, THE CONSTRUCTION AND THE PUBLIC FROM HAZARDS DUE TO CONSTRUCTION.

C. SIGNS, OTHER THAN THOSE IDENTIFIED IN THESE SPECIFICATIONS, SHALL BE PROHIBITED. NOTICES, REQUIRED BY LAW, SHALL BE POSTED AND MAINTAINED.

1.11 UTILITIES

A. ALL UTILITY CONNECTION FEES, METERS, AND COST OF UTILITIES USED DURING THE COURSE OF CONSTRUCTION AND ESTABLISHMENT ARE CONSIDERED A DIRECT COST AND ARE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL PROJECT ACCEPTANCE.

1.12 DUST/NOISE CONTROL REQUIREMENTS

A. DUST AND OTHER AIR POLLUTION NUISANCES ON OR ADJACENT TO THE SITE SHALL BE ABATED, PER SECTION 2 - 1.07 OF THE GENERAL CONDITIONS. DIRT SHALL NOT BE ALLOWED TO ACCUMULATE ON STREETS OR SIDEWALKS NOR BE WASHED INTO SEWER. THE CONTRACTOR SHALL INSTALL SILT BASIN, SILT FENCES OR OTHER PHYSICAL MEANS TO PREVENT WINTER RUN-OFF OR DRY SEASON FLOW PASSING THROUGH THE SITE.

B. NOISE FROM CONSTRUCTION OPERATIONS SHALL BE KEPT TO A MINIMUM. ALLOWABLE HOURS OF OPERATIONS SHALL BE FROM 7 A.M. TO 7 P.M. MONDAY THROUGH FRIDAY. WORK ON WEEKENDS AND HOLIDAYS MUST BE APPROVED BY THE PROJECT MANAGER. WORK ON WEEKENDS AND HOLIDAYS SHALL NOT BEGIN BEFORE 8 A.M. AND MUST BE COMPLETED BY 8 P.M.

1.13 TREE REPLACEMENT SCHEDULE

A. TREES DAMAGED OR REMOVED WITHOUT PRIOR APPROVAL SHALL BE REPLACED AT AN INCH PER INCH BASIS ON-SITE, EXCEPT OTHERWISE ACCEPTED. NEW STOCK SHALL FOLLOW THE TABLE PROVIDED:

PLANT SIZE	INCH VALUE
3 GALLON STOCK	ONE INCH
1 FIFTEEN GALLON STOCK	ONE INCH
1 24" BOX STOCK	TWO INCHES
1 36" BOX STOCK	THREE INCHES

1.14 INSPECTION OF CONSTRUCTION

A. IN ADDITION TO THE ROUTINE INSPECTIONS PERFORMED BY THE PARKS INSPECTOR, PORTIONS OF WORK MAY BE INSPECTED BY THE OTHER CITY DEPARTMENTS. NOTIFY THE PARKS INSPECTOR AND PROJECT MANAGER A MINIMUM OF 48 HOURS PRIOR TO DATE OF INSPECTION.

B. THE PARKS INSPECTOR SHALL BE THE MAIN LINE OF COMMUNICATION BETWEEN THE SITE SUPERINTENDENT, THE PROJECT MANAGER AND OTHER CITY DEPARTMENT INSPECTORS. CHANGES IN SCOPE OF WORK OR STANDARDS SHALL BE APPROVED BY THE PROJECT MANAGER.

C. REFER TO THE PARKS INSPECTION RECORD. THIS SHALL BE ISSUED AT THE PRE-CONSTRUCTION MEETING AND SHALL BE UTILIZED BY THE CONTRACTOR THROUGHOUT THE COURSE OF CONSTRUCTION. A COMPLETED "HARD CARD" SHALL BE SUBMITTED TO THE PROJECT MANAGER ALONG WITH REQUIRED TURN IN ITEMS (SEE 1.15 THIS SECTION) UPON FINAL ACCEPTANCE OF THE PROJECT. THE NOTICE OF COMPLETION SHALL NOT BE FILED UNTIL ALL RECORD DOCUMENTS HAVE BEEN RECEIVED AND ACCEPTED.

1.15 ADVERSE IMPACTS TO SITE CONDITIONS DUE TO CONSTRUCTION

A. IMPACTS THAT AFFECT THE SITE CONDITIONS TO THE DETRIMENT OF THE PARK OR STREETSCAPE CONSTRUCTION OR LONG TERM VIABILITY OF THE SITE SHALL BE MITIGATED BY THE CONTRACTOR PRIOR TO ACCEPTANCE OF THE PROJECT. SUCH IMPACTS SHALL INCLUDE, BUT ARE NOT LIMITED TO:

A.1. SOIL COMPACTION IN NON-STRUCTURAL AREAS;

A.2. DIESEL OR GAS FUEL LEAKS/SPILLAGE;

A.3. BURIED CONCRETE OR OTHER CONSTRUCTION DEBRIS;

A.4. HAZARDOUS MATERIAL CONTAMINATION;

A.5. LIME TREATMENT IN PLANTING AREAS;

A.6. AND MORE.

1.16 PRE-FINAL (PUNCH LIST) REVIEW

A. NOTIFY, IN WRITING, TO THE PARKS CONSTRUCTION INSPECTOR, THAT THE WORK IS SUBSTANTIALLY COMPLETE. SUBSTANTIALLY COMPLETE IS DEFINED AS "THE STATE OF WORK WHERE IT MAY BE USED IN A SUITABLE AND INTENDED MANNER WITH EXCEPTION OF MINOR CORRECTIONS". PARTIAL ACCEPTANCES WILL NOT BE GRANTED. ITEMS TO BE REVIEWED AS A PART OF SUBSTANTIAL COMPLETION INCLUDE:

A.1. ALL CONSTRUCTION ITEMS

A.2. INSTALLATION OF ALL SITE FURNISHINGS, INCLUDING LIGHTS AND SIGNS

A.3. SEEDING OR SODDING OF ALL TURF AREAS

A.4. ALL PLANTING, INCLUDING WEEDING OF PLANTED AREAS

A.5. THE IRRIGATION SYSTEM IS FULLY FUNCTIONING AS DESIGNED AND AS CONFIRMED BY THE POST-PLANT IRRIGATION AUDIT CHECK.

B. UPON FIELD CONFIRMATION BY THE PARKS CONSTRUCTION INSPECTOR REGARDING SUBSTANTIAL COMPLETION, A PRE-FINAL (PUNCH LIST) WALK-THROUGH WILL BE CONDUCTED WITHIN SEVEN (7) CALENDAR DAYS OF RECEIPT OF NOTIFICATION. A FORMAL PUNCH LIST WILL BE DEVELOPED AT THAT TIME. PERFORMANCE OF THE PRE-FINAL (PUNCH LIST) REVIEW SHALL NOT AUTOMATICALLY TRIGGER THE START OF ESTABLISHMENT.

B.1. IF AT ANY POINT DURING THIS REVIEW THAT IT BECOMES APPARENT THAT THE CONTRACTOR HAS NOT PROPERLY PREPARED FOR THE SITE REVIEW, THE INSPECTION SHALL IMMEDIATELY BE TERMINATED AND RE-SCHEDULED AT SUCH A TIME AS THE SITE HAS BEEN READIED FOR A REVIEW. ANY COSTS FOR THE RE-SCHEDULING OF THE REVIEW SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. LACK OF SITE PREPARATION COULD DELAY START OF THE ESTABLISHMENT PERIOD.

C. THE PRE-FINAL (PUNCH LIST) REVIEW SHALL OCCUR WITHIN ONE (1) BUSINESS WEEK AFTER THE PROJECT HAS BEEN DETERMINED AS "SUBSTANTIALLY COMPLETE". CONCURRENTLY, THE CITY WILL MAKE A FORMAL REQUEST FOR ALL REQUIRED TURN-IN ITEMS TO BE SUBMITTED TO THE CITY. ALL TURN-IN ITEMS SHALL BE SUBMITTED TO THE CITY (SINGLE POINT OF CONTACT), AT ONE TIME AND ONLY BY APPOINTMENT. DO NOT DROP OFF THE TURN-IN ITEMS AT THE FRONT COUNTER AND WITHOUT AN APPOINTMENT.

D. ONCE ALL TURN-IN ITEMS HAVE BEEN CONFIRMED TO BE COMPLETE AND ACCURATE, THE ESTABLISHMENT PERIOD MAY BE CONSIDERED TO BEGIN. THE CITY SHALL HAVE SOLE DISCRETION IN DETERMINING THE APPROPRIATENESS OF THE COMMENCEMENT OF THE ESTABLISHMENT PERIOD AND SHALL NOTIFY THE DEVELOPER/CONTRACTOR IN WRITING OF THE START AND END DATES. PORTIONS OF THE PROJECT WILL NOT BE ACCEPTED FOR ESTABLISHMENT PRIOR TO THE SUBSTANTIAL COMPLETION OF THE ENTIRE PROJECT.

E. THE DURATION OF THE ESTABLISHMENT PERIOD SHALL BE:

E.1. FOR STREETSCAPES: THIRTY (30) CALENDAR DAYS, MINIMUM.

F. SEE SECTIONS 32 84 00 4.02 AND 32 90 00 3.11 FOR WORK TO BE PERFORMED DURING THE ESTABLISHMENT PERIOD.

1.17 FINAL REVIEW

A. ONE (1) WEEK PRIOR TO THE END OF THE ESTABLISHMENT PERIOD, A FINAL ON-SITE REVIEW SHALL BE CONDUCTED TO REVIEW PROJECT READINESS FOR FINAL TURN-OVER. ALL PUNCH LIST ITEMS MUST BE SATISFACTORILY ADDRESSED PRIOR TO THE FINAL REVIEW.

B. THE PROJECT SHALL BE PREPARED AND CLEANED PER SECTION 2 - 1.12 OF THE GENERAL CONDITIONS; THE IRRIGATION HEADS SHALL BE ADJUSTED APPROPRIATELY ONE DAY PRIOR TO THE SCHEDULED FINAL REVIEW.

C. ACCEPTANCE OF THE PROJECT SHALL BE CONSIDERED "FIELD ACCEPTED" AND A RECOMMENDATION WILL BE FORWARDED TO THE CITY COUNCIL FOR "FINAL ACCEPTANCE" PER SECTION 7 - 1.01 OF THE GENERAL CONDITIONS.

D. AN UNACCEPTED PROJECT SHALL EXTEND THE ESTABLISHMENT PERIOD UNTIL SUCH TIME AS THE UNACCEPTED PORTIONS OF THE PROJECT HAVE BEEN REVIEWED AND FIELD ACCEPTED BY THE INSPECTOR AND PROJECT MANAGER.

E. TURN OVER FOR CITY MAINTENANCE SHALL OCCUR ONLY AFTER:

F. THE SPECIFIED DURATION OF THE ESTABLISHMENT PERIOD HAS BEEN SUCCESSFULLY COMPLETED.

G. IF REQUIRED, THE DEED TRANSFERRING PROPERTY OWNERSHIP, HAS BEEN RECORDED AT THE COUNTY.

H. A CERTIFICATE OF COMPLIANCE (COC) FOR STREETSCAPES OR NOTICE OF COMPLETION (NOC) FOR CITY BUILT PARKS HAS BEEN APPROVED BY THE CITY COUNCIL.

I. CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE COVERING ALL IMPROVEMENTS ASSOCIATED WITH THIS PROJECT. SEE 1.19 - WARRANTEES AND GUARANTEES.

1.18 RECORD DOCUMENTS

A. RECORD DOCUMENTS OR AS-BUILT PLANS SHALL BE MAINTAINED ON-SITE AND UPDATED ROUTINELY AS SPECIFIED IN SECTION 2 - 1.13 OF THE GENERAL CONDITIONS. RECORD DOCUMENTS SHALL INCLUDE ALL ITEMS UNDER THE CONTRACTED SCOPE OF WORK.

B. RECORD DOCUMENTS SHALL BE SUBMITTED:

B.1. ONE FULL SIZE SET OF FINAL AS-BUILT DRAWINGS (VERIFIED/INITIALED BY THE PARKS INSPECTOR DURING THE ESTABLISHMENT PERIOD)

B.2. ONE SET OF 11 X 17 REDUCTIONS OF THE COMPLETE AS-BUILT PACKAGE; AND

B.3. TWO SETS 11 X 17 LAMINATED REDUCTIONS OF THE IRRIGATION PLAN ILLUSTRATING WITH COLORS THE INDIVIDUAL CONTROLLER STATIONS; AND

B.4. ONE USB CONTAINING PDF SCANNED IMAGES (IN COLOR) OF THE VERIFIED AS-BUILT DRAWINGS.

B.5. FOR CITY OF ROSEVILLE CIP PROJECTS, SWPP BINDER.

1.19 WARRANTIES AND GUARANTEES

A. WARRANTIES ARE REQUIRED UNDER VARIOUS SECTIONS OF THESE SPECIFICATIONS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL ASSEMBLE ALL WARRANTIES INTO A SINGLE, BOUND OR STAPLED PACKAGE. ALL WARRANTEES SHALL BE CLEARLY LABELED AND THE NUMBER OF YEARS HIGHLIGHTED. ALSO, SEE SECTIONS 7 - 1.10 AND 7 - 1.11 OF THE GENERAL CONDITIONS.

A.1. WARRANTIES FOR EQUIPMENT SHALL BE SUBMITTED IN THE MANUFACTURER'S STANDARD FORM AND SHALL BE COUNTERSIGNED BY THE SUBCONTRACTOR OR SUPPLIER AND THE CONTRACTOR.

A.2. ALL OTHER WARRANTIES SHALL BE PROVIDED IN THE FOLLOWING FORMAT, WRITTEN ON SUBCONTRACTOR'S OR SUPPLIER'S LETTERHEAD, SIGNED BY THE SUBCONTRACTOR OR SUPPLIER AND COUNTERSIGNED BY THE CONTRACTOR:

WARRANTY FOR _____ YEARS

"WE HEREBY WARRANT THAT THE PRODUCT WHICH WE HAVE INSTALLED AT PROJECT NAME HAS BEEN DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND THAT THE WORK, AS INSTALLED WILL FULFILL THE WARRANTY REQUIREMENTS INCLUDED IN THE SPECIFICATIONS.

WE AGREE TO REPAIR OR REPLACE ANY OR ALL OF OUR WORK, TOGETHER WITH ANY OTHER ADJACENT WORK WHICH MAY BE DISPLACED BY SO DOING, THAT MAY PROVE TO BE DEFECTIVE IN ITS WORKMANSHIP OR MATERIAL WITHIN THE WARRANTY PERIOD STATED ABOVE COMMENCING FROM THE DATE OF FINAL ACCEPTANCE OF THE ABOVE NAMED PROJECT BY THE CITY OF ROSEVILLE'S CITY COUNCIL, WITHOUT ADDITIONAL EXPENSE TO THE CITY, ORDINARY WEAR AND TEAR AND UNUSUAL ABUSE OR NEGLECT EXCEPTED.

IN THE EVENT OF FAILURE TO COMPLY WITH THE ABOVE CONDITIONS WITHIN THIRTY (30) DAYS OF NOTIFICATION BY THE CITY, WE COLLECTIVELY OR SEPARATELY DO HEREBY AUTHORIZE THE CITY TO PROCEED WITH THE REPAIRS OR REPLACEMENT OF SUCH DEFECTS AT OUR EXPENSE. PAYMENT OF SAID COSTS AND CHARGES WILL BE FORWARDED TO THE CITY UPON DEMAND.

SIGNED: _____ _____

SUBCONTRACTOR OR SUPPLIER DATE

COUNTERSIGNED:_____ _____

CONTRACTOR DATE

B. GUARANTEES SHALL BE A MINIMUM OF ONE (1) YEAR FOR ALL PLANT MATERIAL, INCLUDING TREES AND SHRUBS. THE GUARANTEE SHALL STATE THAT PLANT MATERIALS (TREES & SHRUBS) TO BE FREE OF ALL DEFECTS OR DISEASE AND ALL PLANTS ARE IN A HEALTHY AND THRIVING CONDITION AT THE COMPLETION OF THE CONTRACT. DECIDUOUS PLANT MATERIAL SHALL BE WARRANTED BEYOND THE TIME OF CONTRACT COMPLETION UNTIL SUCH TIME AS GROWTH BECOMES EVIDENT.

SECTION 03 30 00 CONCRETE

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

A. THE REQUIREMENTS SET FORTH IN THE GENERAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

B. THE REQUIREMENTS SET FORTH IN THE SUPPLEMENTAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

C. THE STANDARDS SET FORTH IN THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS AND THE CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS, LATEST EDITIONS, SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

1.2 DESCRIPTION

A. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF ALL CONCRETE WORK, FLATWORK AND POURED-IN-PLACE AS SHOWN IN THE PLANS AND SPECIFIED HEREIN.

1.3 REFERENCES

A. CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION

B. CALIFORNIA BUILDING CODE (CBC) AND CALIFORNIA ADMINISTRATIVE CODE (TITLE 24), LATEST EDITIONS.

1.4 QUALITY ASSURANCE

A. FOR ALL FLATWORK, THE CONTRACTOR SHALL POUR A SIX-FOOT BY SIX-FOOT (6" X 6") SAMPLE OF EACH TYPE OF FINISH SPECIFIED FOR REVIEW AND ACCEPTANCE BY THE PROJECT MANAGER PRIOR TO POURING ANY CONCRETE. THE ACCEPTED SAMPLES SHALL REMAIN ON-SITE AND INTACT UNTIL ALL CONCRETE WORK HAS BEEN COMPLETED. THE QUALITY OF THE CONCRETE WORK SHALL BE MEASURED BY THE ACCEPTED SAMPLES.

B. DURING THE COURSE OF CONSTRUCTION, A QUALIFIED TESTING LABORATORY SHALL OBTAIN SAMPLES AS DETERMINED BY THE INSPECTOR AND CONFORMING TO FEDERAL AND STATE CODES AND STANDARDS. SUCH COSTS SHALL BE PAID FOR BY THE CITY. RE-TESTS AND REMOVAL OF BELOW ACCEPTABLE STRENGTH CONCRETE SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL COOPERATE WITH THE TESTING DURING THE COURSE OF OBTAINING SUCH SAMPLES.

C. VARIANCES IN SURFACE GRADES OF MORE THAN 1/8", AS MEASURED BY A STRAIGHT EDGE TEN FEET (10") LONG, SHALL BE CORRECTED TO THE SATISFACTION OF THE INSPECTOR. REMOVE ALL AREAS WHERE STANDING WATER OCCURS, INCLUDING ANY SURFACE IRREGULARITIES.

1.5 HANDLING AND STORAGE

A. COMPLY WITH ATSM C-94, "SPECIFICATIONS FOR READY MIX CONCRETE" FOR THE BATCH, MIX AND TRANSPORT OF CONCRETE.

B. MIX AND DELIVER ONLY THE AMOUNT THAT WILL BE POURED IMMEDIATELY.

1.6 RECORD DRAWINGS

A. THE CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL THE AS-BUILT CONDITIONS OF THE SITE CONCRETE. THESE RECORDS SHAALL BE UPDATED DAILY AND KEPT AT THE CONSTRUCTION SITE. AT ANY TIME, THE INSPECTOR MAY EXAMINE THE CONDITIONS OF THE "AS-BUILTS" TO ENSURE COMPLIANCE OF THE ABOVE.

PART 2 PRODUCTS

2.1 CONCRETE

A. CONCRETE FOR PLAY AREA CURBS, SIDEWALKS, AND ACCESSIBLE RAMPS SHALL CONFORM TO THE PROVISIONS OF SECTION 90-2 "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS. CEMENTITIOUS MATERIAL SHALL BE „TYPE II MODIFIED" AND SHALL CONTAIN NO LESS THAN 505 POUNDS OF CEMENTITIOUS MATERIAL PER CUBIC YARD. AGGREGATE SHALL BE NOT GREATER THAN ONE-INCH OR SMALLER THAN 3/8-INCH. SUBMIT CONCRETE ANALYSIS FOR REVIEW AND ACCEPTANCE PRIOR TO PLACEMENT OF CONCRETE.

2.1 FIBERGLASS REINFORCEMENT

A. POLYPROPYLENE COLLATED FIBRILLATED FIBERS, FIBERMESH 150 AS MANUFACTURED BY PROPEX OPERATING COMPANY; OR ACCEPTED EQUAL. INCLUDE FIBERGLASS REINFORCEMENT IN ALL CONCRETE, EXCEPT WHERE NOTED.

2.2 EXPANSION JOINT MATERIAL

A. FIBER EXPANSION JOINT SHALL CONFORM TO ASTM-1751 AND SHALL BE A NON- EXTRUDING RESILIENT FILLER. FILLER SHALL HAVE PRESERVE ATTRIBUTES AND HIGH QUALITY BITUMINOUS MATERIALS.

B. APPLY SIKAFLEX ELASTOMERIC SEALANT, OR ACCEPTED EQUAL, OVER ALL EXPANSION JOINTS.

2.3 CONCRETE FORMS

A. ALL FORMS SHALL BE NEW AT THE START OF THE PROJECT AND SHALL BE CONSTRUCTION GRADE DOUGLAS FIR. MINIMUM SIZE LUMBER SHALL BE 2 X 6.

B. RADIUS BENDS SHALL BE FORMED BY SPRING STEEL FORMS OR LAMINATED BOARDS, AS REQUIRED.

C. PLYWOOD SHALL BE 5/8", CLASS I, EXTERIOR GRADE AS OUTLINED IN APA "GUIDE TO PLYWOOD GRADES". OMIT MILL OILING TREATMENT.

PART 3 EXECUTION

3.1 POURED-IN-PLACE CONCRETE

A. CONCRETE FOR HARDSCAPE OR FLATWORK SHALL BE PLACED ON SUBGRADE COMPACTED TO 95% RELATIVE COMPACTION. PRIOR TO PLACEMENT OF CONCRETE, A SOILS COMPACTION TEST MUST BE PERFORMED BY AN ACCEPTED SOILS TESTING PROFESSIONAL ON A REPRESENTATIVE NUMBER OF LOCATIONS ALONG THE FLATWORK AREA. THE CITY OR PROJECT OWNER SHALL PROVIDE THE INITIAL TEST. THE RESULTS OF THESE TESTS MUST BE AVAILABLE AND MEET ACCEPTABLE LEVELS PRIOR TO POURING. RE-TESTS AND RE-WORK OF ANY AREA, AS DIRECTED BY THE SOILS PROFESSIONAL, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

B. CONSTRUCT FORMS TO CONFORM TO THE SHAPES, DIMENSIONS AND DETAILS SHOWN ON THE PLANS. ALL FORMS SHALL BE TRUE TO LINES, PLUMB, LEVEL AND SQUARE.

C. FORMS SHALL NOT LEAK, SPREAD, SHIFT OR SETTLE WHEN CONCRETE IS PLACED.

D. ALL FORMS SHALL CARRY DEAD AND LIVE LOADS AND SHALL NOT DEFLECT MORE THAN 1/8" BETWEEN SUPPORTS AFTER PLACEMENT OF CONCRETE.

E. ALL FORMS SHALL BE THOROUGHLY SOAKED A MINIMUM OF TWELVE (12) HOURS PRIOR TO POURING OF CONCRETE. FORMS SHALL BE TREATED PER MANUFACTURER'S RECOMMENDATIONS.

F. REUSE OF FORMS MAY BE ALLOWED AT THE DISCRETION OF THE INSPECTOR. REUSED FORMS SHALL BE CLEANED AND FREE OF DEFECTS THAT WOULD AFFECT THE FINAL CONCRETE FINISH.

G. CONCRETE FOOTINGS SHALL BE FORMED ONLY WHEN EXCAVATIONS SLUMP OR CAVE IN. OVER-EXCAVATE THE TRENCH OR FOOTING DIAMETER TO ACCOMMODATE THE FORMS' INSTALLATION AND REMOVAL. APPLY WATER TO MOISTEN SOIL. DO NOT ALLOW WATER TO CREATE MUD OR PONDING.

3.2 FIBERGLASS REINFORCEMENT

A. INSTALL PER MANUFACTURER'S INSTRUCTIONS. APPLY AT THE BATCH PLANT PRIOR TO DELIVERY. THOROUGHLY MIX FIBER MATERIAL TO AVOID "CLUMPING".

3.3 EXPANSION JOINTS

A. EXPANSION JOINTS SHALL BE PLACED WHERE VERTICAL ELEMENTS MEET HORIZONTAL PAVING UNLESS OTHERWISE NOTED ON THE PLANS. THE CORNERS OF THE PAVING SHALL BE TOOLED AT THE EXPANSION JOINTS. TRIM EXPOSED FIBERS WHICH PROTRUDE ABOVE OR BEYOND THE FINISH SURFACE OF PAVING OR THE FINISH SURFACE OF THE WALL.

CONSTRUCTION SPECIFICATIONS

SECTION 31 10 00 CLEARING AND GRUBBING

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

A. THE REQUIREMENTS SET FORTH IN THE GENERAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

B. THE REQUIREMENTS SET FORTH IN THE SUPPLEMENTAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

1.2 DESCRIPTION

A. PRESERVE AND PROTECT EXISTING SITE AMENITIES TO REMAIN, INCLUDING, BUT NOT LIMITED TO, UNDERGROUND UTILITIES AND OTHER IMPROVEMENTS AS SHOWN ON THE PLANS. PROTECTION OF WORK SHALL INCLUDE AFFECTED IMPROVEMENTS ON ADJOINING PROPERTIES.

B. SCOPE OF WORK INCLUDES: SITE PREPARATION, REMOVAL OF DEBRIS, STAGING OF EQUIPMENT AND MATERIALS AND SECURING THE SITE FOR CONSTRUCTION.

1.3 RELATED WORK

A. SECTION 31 20 00: EARTHWORK

1.4 PROTECTION/REPLACEMENT

A. PRIOR TO DEMOLITION, ERECT PROTECTIVE FENCING A MINIMUM OF ONE FOOT (1') BEYOND THE CANOPY OF ALL TREES TO REMAIN. THE RADIUS OF THE CANOPY SHALL BE MEASURED FROM THE LONGEST BRANCH FURTHEST FROM THE TRUNK. REFER TO THE ENVIRONMENTAL DOCUMENT FOR ADDITIONAL REQUIREMENTS FOR PROTECTIVE FENCING ON OTHER EXISTING NATURAL FEATURES. FOR WORK WITHIN OR NEAR PROTECTED TREES, A TREE PERMIT MAY BE REQUIRED.

B. IF PUBLIC USE IS TO BE MAINTAINED ON UNAFFECTED PORTIONS OF THE PROJECT SITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIRECTING PEDESTRIAN AND VEHICULAR TRAFFIC SAFELY AROUND THE CONSTRUCTION ZONE. UTILIZATION OF TEMPORARY FENCING, BARRICADES, SIGNAGE, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SAFE DETOURS SHALL BE AVAILABLE TO THE GENERAL PUBLIC AT ALL TIMES DURING THE COURSE OF CONSTRUCTION.

C. PROTECTION OF EXISTING SITE IMPROVEMENTS SHOWN TO REMAIN, INCLUDING, BUT NOT LIMITED TO, FENCING, SIGNS, CONCRETE PAVING, CONCRETE WALL AND CURBS, ASPHALT CONCRETE PAVING, ETC. ARE TO BE PROTECTED AND PRESERVED.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO AND MAINTENANCE OF ALL EXISTING STREET IMPROVEMENTS, DRAINAGE FACILITIES AND IRRIGATION SYSTEMS AND TO RE-ESTABLISH THESE IMPROVEMENTS TO THEIR ORIGINAL CONDITION AS SOON AS POSSIBLE AFTER COMPLETION OF THE WORK IN THE AREA, TO THE COMPLETE SATISFACTION OF THE PROJECT MANAGER AND INSPECTOR. REALIGNMENTS OR MODIFICATIONS TO THE EXISTING FACILITIES AS SHOWN ON THE PLANS ARE ACCEPTED.

E. SURVEY MONUMENTS AND MARKERS EITHER SHOWN ON THE PLANS OR ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE PROTECTED AND PRESERVED. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR UPON DISCOVERY OF AN UNMARKED MONUMENT, AT WHICH TIME, ARRANGEMENTS FOR THE RELOCATION OR ADJUSTMENT OF THE MONUMENT WILL BE DETERMINED. ALL COSTS ASSOCIATED WITH THE RELOCATION OR ADJUSTMENT OF THESE MONUMENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

F. BURNING OR BURYING REMOVED MATERIAL ON-SITE IS PROHIBITED.

G. WHERE THE REMOVAL OF SPECIFIC MATERIAL CREATES AN OPEN HOLE, PIT, TRENCH OR OTHER DEPRESSION, THE CONTRACTOR SHALL IMMEDIATELY BACKFILL AND COMPACT THE AREAS CONSISTENT WITH REQUIREMENTS OUTLINED IN SECTION 31 20 00 OF THESE SPECIFICATIONS.

H. ALL ITEMS IDENTIFIED IN THE PLANS TO REMAIN OR IDENTIFIED IN THE FIELD TO REMAIN, REMOVED IN ERROR BY THE CONTRACTOR, SHALL BE REPAIRED OR REPLACED TO MATCH IN EQUAL OR BETTER CONSTRUCTION, AT NO COST TO THE CITY. THE QUALITY OF THE REPAIR OR REPLACEMENT SHALL BE MEASURED AS THAT EXISTING AT CONTRACT AWARD.

PART 2 - PRODUCTS

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PART 3 - EXECUTION

3.1 PRE-CONSTRUCTION SITE REVIEW

A. CONTRACTOR SHALL REVIEW EXISTING SITE CONDITIONS WITH THE INSPECTOR PRIOR TO START OF CONSTRUCTION AND DOCUMENT ANY CONDITIONS WHICH ADVERSELY AFFECT THE SATISFACTORY EXECUTION OF THE WORK AND FINAL ACCEPTANCE OF THE PROJECT.

B. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. THE CONTRACTOR SHALL, AT HIS EXPENSE, BE RESPONSIBLE FOR CORRECTING ALL UNSATISFACTORY AND DEFECTIVE WORK.

3.2 CLEARING

A. COMPLETELY REMOVE TREES, SHRUBS, STUMPS, VINES, RUBBISH/DEBRIS, UNDERGROWTH, DEADWOOD, STRUCTURES, AND OTHER ELEMENTS IDENTIFIED TO BE REMOVED AND/OR WHICH INTERFERE WITH THE CONSTRUCTION AS SHOWN ON THE PLANS AND AS SPECIFIED.

B. OBTAIN VERIFICATION FROM THE PROJECT MANAGER FOR NON-IDENTIFIED ITEMS SCHEDULED TO BE REMOVED PRIOR TO ACTUAL REMOVAL.

3.3 GRUBBING

A. REMOVE ALL STUMPS, ROOTS, GRASSES AND WEEDS IN ITS ENTIRETY. APPLY SYSTEMIC WEED KILLER. CONFIRM WEED KILL PRIOR TO REMOVAL.

B. ONCE SURFACE MATERIAL IS REMOVED, THE CONTRACTOR SHALL STOCKPILE THE TOP TWELVE INCHES (12") OF TOPSOIL FOR USE DURING THE FINAL GRADING PHASE OF WORK. THIS SOIL SHALL BE FREE OF ROCKS, DEBRIS, ROOTS AND OTHER UNDESIRABLE MATERIAL.

3.4 UTILITIES

A. CONTACT USA ALERT (800) 642-2444 PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR EXCAVATION WORK. PROVIDE A MINIMUM OF 48 HOURS' NOTICE. VERIFY ALL UTILITIES ENTERING INTO AND THEIR LOCATIONS WITHIN THE PROJECT SITE.

B. WHERE UTILITIES LIE WITHIN THE PROJECT SITE, BUT ARE NOT A PART OF THE PROJECT, THE CONTRACTOR SHALL COOPERATE WITH THE AGENCY OR UTILITY COMPANY HAVING JURISDICTION TO MAINTAIN ITS USE AND THE INTEGRITY OF THE STRUCTURE.

C. WHERE UTILITIES ENTER INTO THE PROJECT SITE AND TAPS, CONNECTIONS TO OR EXTENSIONS OF THE UTILITY ARE IDENTIFIED IN THE PLANS, THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE AGENCY OR UTILITY COMPANY HAVING JURISDICTION TO MINIMIZE OR ELIMINATE DISRUPTION OF USE BY THE ADJACENT PROPERTIES.

D. VERIFY THAT ALL UTILITIES, SHOWN TO BE REMOVED ON THE PLANS, ARE INACTIVE AND TURNED OFF PRIOR TO DISCONNECTION AND/OR RE-ROUTING, PRIOR TO DEMOLITION.

3.5 DEBRIS REMOVAL

A. ALL MATERIALS REMOVED AS A PART OF THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE, UNLESS OTHERWISE NOTED ON THE PLANS.

B. WHERE A PORTION OF A CONCRETE SLAB, CURB OR WALL AND ASPHALT CONCRETE PAVING OR CURB IS TO BE REMOVED, THE CONCRETE SHALL BE CUT WITH A CONCRETE SAW AT A 90 DEGREE ANGLE SO THAT THE EDGE OF THE REMAINING CONCRETE SHALL FORM A NEAT, STRAIGHT LINE. CONFORM TO THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS, LATEST EDITION.

-END OF SECTION-

SECTION 31 20 00 EARTHWORK

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

A. THE REQUIREMENTS SET FORTH IN THE GENERAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

B. THE REQUIREMENTS SET FORTH IN THE SUPPLEMENTAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

C. THE STANDARDS SET FORTH IN THE CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION, SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

D. THE REQUIREMENTS SET FORTH BY CAL OSHA SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

1.2 DESCRIPTION

A. PROVIDE ALL LABOR, OPERATIONS AND MATERIALS NECESSARY FOR EARTHWORK, INCLUDING, BUT NOT LIMITED TO, STAKING AND SURVEYING, GRADING; EXCAVATING; INSTALLATION OF FACILITIES NECESSARY TO PERFORM EXCAVATION AND SUBSEQUENT REMOVAL OF SUCH FACILITIES UPON COMPLETION OF WORK; SUBGRADE PREPARATION; BACKFILLING; AND OTHER INCIDENTAL ITEMS NECESSARY FOR A COMPLETE PROJECT.

B. THIS PROJECT REQUIRES IMPORT OF MATERIAL. THE IMPORT OF MATERIAL SHALL BE A PART OF THE CONTRACTOR'S BID PRICE.

C. THE INTENT OF THE GRADING PLAN IS TO PROVIDE POSITIVE DRAINAGE AND TO MAINTAIN SLOPES ON WALKWAYS AS REQUIRED BY THE AMERICANS WITH DISABILITIES ACT AND CALIFORNIA TITLE 24 THROUGHOUT THE PROJECT SITE. THE PROJECT MANAGER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS AND/OR CONFLICTS BETWEEN THE DESIGN AND CODE REQUIREMENTS.

1.3 RELATED WORK

A. SECTION 31 10 00: CLEARING AND GRUBBING

B. SECTION 32 84 00: IRRIGATION SYSTEM

C. SECTION 32 90 00: PLANTING

D. SECTION 26 00 00: SITE ELECTRICAL

1.4 QUALITY ASSURANCE

A. ALL WORK SHALL CONFORM TO LOCAL CODES AND REGULATIONS, INCLUDING STANDARDS SET FORTH IN THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA, BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION (CALTRANS), CHAPTER 70 OF THE UNIFORM BUILDING CODE AND ASTM.

B. RELATIVE COMPACTION SHALL BE THE IN-PLACE DRY DENSITY OF SOIL DENOTED AS A PERCENTAGE OF THE MAXIMUM DRY DENSITY OF THE SAME MATERIAL. THIS SHALL BE AS DETERMINED BY ASTM 1557. THE OPTIMUM MOISTURE IS MEASURED BY THE WATER CONTENT WHICH CORRESPONDS TO THE MAXIMUM DRY DENSITY.

C. UPON DISCOVERY OF UNFORESEEN SUBSURFACE SITE CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR IMMEDIATELY.

D. UPON DISCOVERY OF HAZARDOUS MATERIALS, CEASE ALL ACTIVITY AND IMMEDIATELY CONTACT THE FIRE DEPARTMENT.

1.5 PROTECTION

A. PROVIDE AND INSTALL ALL SUPPORTS, SHORING, BRACING, UNDERPINNING, SHEET PILING AND OTHER METHODS FOR THE SIDES OF EXCAVATIONS NECESSARY FOR ENSURING SAFE WORKING CONDITIONS FOR THE WORKMEN AND TO PROTECT ADJACENT IMPROVEMENTS TO REMAIN.

B. PROVIDE ANY AND ALL PROTECTION MEASURES NECESSARY TO ENSURE THE PROTECTION OF THE WORKMEN, THE GENERAL PUBLIC, INCLUDING CHILDREN AND THE PROJECT SITE. THESE PROTECTION REQUIREMENTS REMAIN THE CONTRACTOR'S SOLE RESPONSIBILITY THROUGHOUT THE DURATION OF THE PROJECT, INCLUDING NON-WORKING HOURS.

C. DO NOT OBSTRUCT VEHICULAR, BICYCLE OR PEDESTRIAN THOROUGHFARES, UNLESS PREVIOUSLY ACCEPTED BY THE CITY. PROVIDE SAFE AND ADEQUATE DETOURS AROUND THE CONSTRUCTION AS REQUIRED BY CITY AND STATE REGULATIONS.

D. TRENCHES SHALL BE COVERED AT ALL TIMES WHEN WORK DIRECTLY ASSOCIATED WITH THE TRENCHES IS NOT OCCURRING, INCLUDING NON-WORK HOURS.

E. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT SURFACE DRAINAGE DOES NOT CREATE A NUISANCE ONTO ADJACENT PROPERTIES.

1.6 EROSION CONTROL MEASURES

A. CONSTRUCTION SITES SHALL HAVE REQUIRED EROSION AND SEDIMENT CONTROL MEASURES IN PLACE AS REQUIRED. IF CONSTRUCTION IS IN PROGRESS, THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM. AT A MINIMUM, EROSION CONTROL MEASURES SHALL INCLUDE:

A.1. BROADCAST SEED

A.2. DRAINAGE AREA PROTECTION

A.3. DUST/MUD CONTROL

A.4. DRAIN INLET FILTERS

A.5. SILT FENCE AND STRAW WATTLES

A.6. SLOPE PROTECTION

A.7. STRAW BALES

A.8. SILT CONTROLLING DEVICES

PART 2 - PRODUCTS

2.1 BASE ROCK

A. CLASS 2 AGGREGATE BASE PER CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION.

2.2 DRAIN ROCK

A. DRAIN ROCK SHALL BE CLASS 2 PERMEABLE, WASHED, UNBROKEN STONE OR GRAVEL. MATERIAL GRADATION SHALL CONFORM TO THE FOLLOWING:

SIEVE SIZE	PERCENT PASSING
1 INCH	100
NO. 4	20-50
NO. 50	0-10
NO. 200	0-5

2.3 PEA GRAVEL

A. PEA GRAVEL SHALL BE NATURAL STONE, FREE OF CLAY, SHALE OR ORGANIC MATTER, AND SHALL CONFORM TO THE FOLLOWING:

SIEVE SIZE	**PERCENT PASSING**
3/8 INC	100
NO. 4	47
NO. 8	2
NO. 16	1

2.4 FILL

A. FILL FOR NON-STRUCTURAL AREAS SHALL CONFORM TO THE FOLLOWING STANDARDS:

A.1. PLASTICITY: ASTM D4318-84

A.2. EXPANSION INDEX: NO GREATER THAN TWENTY (20)

A.3. TESTING: UBC 29-9 AND ASTM D422-72

A.4. PARTICLE SIZE: NO GREATER THAN ONE INCH (1")

2.5 TOPSOIL

A. THE TOP EIGHT TO TEN INCHES (8" - 10") OF NATIVE SOIL CONTAINING MORE THAN THREE PERCENT (3%) ORGANIC MATERIAL. TOPSOIL SHALL BE FREE OF ROCKS NO LARGER THAN ONE INCH (1") IN DIAMETER, FREE FROM SUBSOIL, ROOTS, HEAVY OR STIFF CLAY, COURSE SAND, DESTRUCTIVE SEEDS, NOXIOUS CHEMICALS, BRUSH, DEBRIS, LITTER AND OTHER UNDESIRABLE MATERIALS.

B. FOR ANY IMPORT SOIL TO BE USED IN TURF/PLANTING AREAS, SUBMIT A SOILS ANALYSIS WITH SOIL AMENDMENT RECOMMENDATIONS (FOR PLANT GROWTH) FOR REVIEW AND ACCEPTANCE PRIOR TO PLACEMENT ON-SITE. SOILS TEST INFORMATION SHALL BE AS OUTLINED IN SECTION 32 90 00: PLANTING - 1.06.

2.6 SOIL STERILANT

A. STERILIZER SHALL BE STANDARD, QUICK-ACTING, SHORT-LIVED AND NON-SELECTIVE WEED AND GRASS KILLER, COMMONLY USED UNDER ROADWAY/TRANSPORTATION PROJECTS. APPLICATION OF THE STERILANT SHALL POSE NO SHORT OR LONG TERM HEALTH THREATS TO THE INSTALLER OR THE GENERAL PUBLIC. SUBMIT ANALYSIS FOR APPROVAL PRIOR TO APPLYING.

2.7 SAND

A. GRANULAR, FINE, FREE OF ORGANIC MATTER, MICA, LOAM OR CLAY MATERIAL.

PART 3 - EXECUTION

3.1 CONSTRUCTION STAKING

A. THE LAYOUT OF ALL WORK SHALL BE PERFORMED BY A CALIFORNIA STATE LICENSED LAND SURVEYOR PROVIDED BY THE CONTRACTOR.

B. NOTIFY THE INSPECTOR IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS. MINOR FIELD ADJUSTMENTS MAY BE NECESSARY IN ORDER TO FULFILL THE INTENT OF THE PLANS.

C. NON-NOTIFICATION OF DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS BY THE CONTRACTOR, IN WRITING, SHALL INDICATE HIS ACCEPTANCE OF SUCH FIELD CONDITIONS. ADJUSTMENTS/MODIFICATIONS TO THE CONSTRUCTION TO ACCOMMODATE THE INCONSISTENCIES (WITHOUT NOTIFICATION) SHALL BE AT NO ADDITIONAL COST TO THE CITY.

3.2 EXCAVATION

A. ALL EXCAVATIONS SHALL BE AS NOTED ON THE PLANS. EXCAVATIONS SHALL INCLUDE ACCOMMODATION OF BASE MATERIAL.

B. DO NOT OVER-EXCAVATE. EXCAVATIONS SHALL PROVIDE APPROPRIATE SPACE TO INSTALL SHORING, BRACING, FORMWORK, ETC, AS NEEDED TO ENSURE THE SAFE AND PROPER CONSTRUCTION OF THE WORK.

C. TAKE EVERY PRECAUTION TO PREVENT WATER FROM ENTERING, SOFTENING, AND UNDERCUTTING EXCAVATED AREAS, INCLUDING, PITS, FOOTINGS, TRENCHES, ETC.

D. NOTIFY THE INSPECTOR IMMEDIATELY UPON DISCOVERY OF UNSATISFACTORY SOILS MATERIALS OR UNFORESEEN SITE CONDITIONS. EXCAVATION SHALL INCLUDE THE COMPLETE REMOVAL OF THE UNSATISFACTORY MATERIAL AND ITS LEGAL DISPOSAL THEREOF.

3.3 SITE GRADING

A. A GRADING PERMIT IS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EARTHWORK.

B. GRADING SHALL INCLUDE ADJACENT TRANSITION AREAS, NEW ELEVATIONS/CONTOURS AS SHOWN ON THE PLANS. ALL SUBGRADE AREAS SHALL BE GRADED PARALLEL TO THE FINISH GRADES AND CONTOURS AND SHALL BE UNIFORM IN SLOPE. TRANSITION AREAS SHALL PROVIDE A SMOOTH CONNECTION BETWEEN NEW AND EXISTING GRADES AND SHALL NOT CREATE ADDITIONAL DRAINAGE OR PONDING ONTO ADJOINING PROPERTIES.

C. SURFACE GRADES SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM STRUCTURES AND FOOTINGS, AND SHALL BE UNIFORMLY SMOOTH THROUGHOUT.

D. ROUGH GRADING SHALL:

D.1. BE GRADED TO A TOLERANCE OF 0.10 FEET, PLUS OR MINUS FOR PLANTED AND TURF AREAS.

D.2. BE GRADED WITH A TOLERANCE LESS THAN .04' FROM SPECIFIED GRADE AND CROSS SECTION FOR SUBGRADE IN WHICH PAVEMENT, CURBS AND OTHER STRUCTURAL ELEMENTS ARE TO BE PLACED IMMEDIATELY ABOVE.

D.3. PROVIDE A SUBGRADE SURFACE FREE OF EXPOSED ROCKS, STONES AND BOULDERS.

D.4. PROVIDE A SUBGRADE SURFACE FREE OF DEPRESSIONS, PITS, ETC., WITH PROPER BACKFILL AND COMPACTION. SEE PARAGRAPH 3.04 BELOW.

3.4 PLACEMENT OF FILL MATERIAL

A. PRIOR TO PLACEMENT OF FILL MATERIAL, THE CONTRACTOR SHALL:

A.1. OBTAIN APPROVAL OF THE SUBGRADE SURFACE FROM THE INSPECTOR.

A.2. SCARIFY, DRY AND COMPACT SOFT AND/OR WET AREAS.

A.3. REMOVE AND REPLACE UNSUITABLE SUBGRADE MATERIAL TO THE SATISFACTION OF THE INSPECTOR.

A.4. TAKE ALL NECESSARY CORRECTIVE ACTION.

B. DO NOT USE TOPSOIL AS FILL OR BACKFILL MATERIAL, UNLESS OTHERWISE ACCEPTED IN WRITING.

C. FILL SHALL BE PLACED IN THE FOLLOWING MANNER:

C.1. ACCEPTED ENGINEERED FILL MATERIAL FOR STRUCTURAL SLABS AND AREAS TO BE PAVED SHALL BE PLACED IN SIX-INCH (6") LOOSE THICKNESS, UNIFORM LAYERS OVER THE ENTIRE AREA.

C.2. FILL MATERIAL IN PLANTED AREAS SHALL BE PLACED IN TWENTY-FOUR INCH (24") MAXIMUM LOOSE THICKNESS THROUGHOUT THE AREAS TO RECEIVE FILL.

D. AERATE OR WATER EACH LIFT TO OBTAIN THE REQUIRED COMPACTION RATE INDICATED ON THE PLANS. THOROUGHLY MIX MATERIAL TO ENSURE PROPER MOISTURE CONTENT FOR COMPACTION. REPEAT THE OPERATIONS UNTIL GRADES, AS SHOWN ON THE PLANS, ARE OBTAINED. JETTING OF TRENCHES SHALL BE REVIEWED AND ACCEPTED BY THE INSPECTOR PRIOR TO PERFORMANCE OF WORK.

E. DO NOT PLACE FILL WHEN THE SUBGRADE IS FROZEN, MUDDY OR WET. ALLOW CONDITIONS TO THAW AND DRY OUT BEFORE RESUMING OPERATIONS.

F. USE HAND TAMPERS OR VIBRATING COMPACTORS AROUND FOUNDATIONS WALLS, RETAINING WALLS AND OTHER STRUCTURAL ELEMENTS. DO NOT USE LARGE EQUIPMENT IN THESE AREAS AND DO NOT BEGIN COMPACTION OPERATIONS UNTIL THE BEARING SURFACES HAVE REACHED ITS DESIGN STRENGTH.

G. FILL AROUND EXISTING TREES TO REMAIN SHALL NOT EXCEED TWELVE INCHES (12").

G.1. MINOR FILL (6" OR LESS) SHALL UTILIZE TOPSOIL AND SHALL BE PLACED BY HAND. DO NOT COVER CROWN OF TRUNK. FEATHER GRADES TO THE EXTENT POSSIBLE.

G.2. FILLS BETWEEN 6" AND 12" SHALL UTILIZE 3/4" PEA GRAVEL ON GRADE, PLACED UP TO THREE INCHES (3") BELOW FINISH GRADE. APPLY TOPSOIL, BY HAND, TO MEET FINISH GRADE ELEVATIONS. FEATHER GRADES TO THE EXTENT POSSIBLE.

H. CONSTRUCT MOUNDS FROM ON-SITE MATERIAL. THE CORE OF THE MOUND (1' BELOW FINISH ELEVATIONS) SHALL BE COMPACTED TO 90%. THE TOP TWELVE INCHES (12") SHALL BE COMPACTED TO 85%. PLACE TOPSOIL IN THE TOP TWELVE INCHES (12").

I. PLACE TOPSOIL IN ALL TURF AND PLANTING AREAS A MINIMUM OF TWELVE (12) INCHES DEEP. SEE SECTION 31 10 00, 3.03-B: CLEARING AND GRUBBING.

3.5 TRENCHING, BACKFILLING AND COMPACTING

A. FOR TRENCHES GREATER THAN FIVE FEET (5') IN DEPTH, SUBMIT AN OSHA PERMIT RELATED TO THE WORK.

B. ALL TRENCHES SHALL BE STRAIGHT, TRUE AND CUT VERTICAL AT 90 DEGREES TO THE SURFACE PLANE.

C. FOR TRENCHES THROUGH EXISTING PAVED SURFACES, USE A CONCRETE SAW OR OTHER TOOL TO ACHIEVE STRAIGHT, CLEAN LINES. REPLACE PAVED SURFACE TO THE SAME OR BETTER CONDITION AS EXISTING PRIOR TO CUT.

D. DO NOT OVER-EXCAVATE. MAINTAIN BEARING SURFACES TRUE, LEVEL AND UNDISTURBED TO THE EXTENT POSSIBLE.

E. TRENCHES SHALL BE KEPT DRY AND FROST-FREE. DO NOT ALLOW STANDING WATER TO COLLECT.

F. DO NOT ALLOW TRENCHES TO REMAIN EXPOSED AT ANY TIME WHEN WORK DIRECTLY RELATED IS NOT OCCURRING. COVER ALL TRENCHES DURING NON-WORK HOURS.

G. BEDDING FOR ALL TRENCHES TO RECEIVE PIPES SHALL BE AS FOLLOWS:

G.1. BEDDING MATERIAL SHALL BE CONSISTENT WITH THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS, LATEST EDITION.

G.2. PIPE SHALL LIE COMPLETELY ON BEDDING. PIPE FITTINGS OR JOINTS SHALL NOT BEAR WEIGHT.

G.3. BEDDING SHALL BE UNIFORM THROUGHOUT THE LENGTH OF PIPE.

H. INITIAL BACKFILL FOR STORM DRAINS, SEWER LINES AND ELECTRICAL CONDUIT SHALL CONFORM THE APPLICABLE CITY STANDARD SET FORTH BY THE DEPARTMENT HAVING JURISDICTION.

I. BACKFILL BEYOND THE INITIAL OPERATIONS SHALL BE NATIVE SOIL, PLACED IN TWELVE-INCH (12") LIFTS. COMPACTION FOR TRENCHED AREAS SHALL BE 95% FOR PARKING LOT, DRIVEWAY AND ROADWAY AREAS; 90% FOR HARDSCAPE (I.E. WALKWAYS, PICNIC PADS BASKETBALL AND TENNIS COURTS); AND 85% IN AREAS TO BE PLANTED. PLACE TOPSOIL OVER TRENCHES IN PLANTED AREAS. UPON COMPLETION, ALL TRENCHES SHALL BE FILLED FLUSH WITH ADJACENT FINISH GRADES.

J. COMPACTION TESTS SHALL BE REQUIRED FOR TRENCHED AREAS, HARDSCAPE AREAS AND AREAS WHERE FILL OVER TWO FEET IN DEPTH WILL BE PLACED. THE INSPECTOR SHALL DETERMINE THE NUMBER OF TESTS AND THE LOCATIONS. RE-TESTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

K. POTHOLING SHALL BE REQUIRED IN AREAS WHERE EXISTING UTILITIES ARE INDICATED. HAND DIGGING MAY BE REQUIRED.

3.06 SOIL STERILA**NT**

A. SOIL STERILANT SHALL BE APPLIED TO AREAS WHERE PAVING IS TO BE INSTALLED. THE WORKER APPLYING THE STERILANT SHALL TAKE EVERY PRECAUTION TO AVOID OVERSPRAY OF STERILANT ONTO AREAS TO BE PLANTED. THE STERILANT SHALL BE PLACED NO FURTHER THAN SIX INCHES (6") BEYOND THE EDGE OF PAVEMENT.

B. SOIL STERILANT SHALL NOT BE APPLIED IN INCLEMENT WEATHER AND WINDY DAYS.

3.7 DRAINAGE AREAS

A. ALL BARE AREAS, REGARDLESS OF SLOPE, WITHIN 50 FEET OF NATURAL DRAINAGES SHALL BE COVERED WITH STRAW AND PRESSED IN PLACE.

B. NO GRADING OR TRENCHING, EXCEPT AS REQUIRED FOR EROSION OR SEDIMENT CONTROL, SHALL OCCUR WITHIN 35 FEET FROM THE CENTERLINE OF PERENNIAL AND INTERMITTENT DRAINAGE SWALES BETWEEN OCTOBER 5 AND APRIL 1 UNLESS APPROVED BY THE ENGINEERING DIVISION, AS WELL AS ANY OTHER GOVERNMENTAL AGENCY WHICH MAY HAVE ADDITIONAL JURISDICTION AND/OR REQUIREMENTS.

3.8 DUST/MUD CONTROL

C. ADJACENT STREETS: ADJACENT STREET FRONTAGES SHALL BE SWEPT AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES.

D. CONSTRUCTION VEHICLES: THE CONTRACTOR IS RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT, MUD AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE. ADJACENT STREETS SHALL BE SWEPT CLEAN DAILY.

E. GRADING SPOILS: DRY STOCKPILES OF SOIL SHALL BE WATERED TO PREVENT THE GENERATION OF AIRBORNE DUST. TRUCKS TRANSPORTING DRY SOIL SHALL BE COVERED WITH TARPAULINS.

F. WATER: WATER SHALL BE SPRAYED ON ALL EXPOSED EARTH SURFACES DURING CLEARING, GRADING, EARTH MOVING AND OTHER SITE PREPARATION ACTIVITIES. THE EXPOSED EARTH SHALL BE WATERED THROUGHOUT THE DAY TO MINIMIZE DUST. THE CONTRACTOR SHALL OBTAIN A HYDRANT PERMIT FROM THE ENVIRONMENTAL UTILITIES DEPARTMENT.

G. WIND ALLOWANCES: GRADING ACTIVITIES SHALL BE RESTRICTED OR HALTED WHEN WINDS EXCEED 15 MILES PER HOUR AS DEEMED NECESSARY BY THE PUBLIC WORKS INSPECTOR.

-END OF SECTION-

IRRIGATION SPECIFICATIONS

SECTION 32 84 00 IRRIGATION SYSTEM

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

A. THE REQUIREMENTS SET FORTH IN THE GENERAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

B. THE REQUIREMENTS SET FORTH IN THE SUPPLEMENTAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

1.2 DESCRIPTION

A. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF AN AUTOMATED IRRIGATION SYSTEM, INCLUDING ALL NECESSARY APPURTENANCES FOR PROPER OPERATION, NOTED OR IMPLIED, AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN.

B. WATER USAGE, METER COSTS, CONNECTION FEES, TESTING AND OTHER ASSOCIATED UTILITY COSTS ARE CONSIDERED DIRECT COSTS AND IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE PROJECT IS ACCEPTED.

C. INSTALLATION OF THE WATER METER SHALL BE BY THE CITY.

1.3 RELATED WORK

A. SECTION 32 90 00: PLANTING

B. SECTION 26 00 00: SITE ELECTRICAL

1.4 QUALITY ASSURANCE

A. ALL WORK SHALL COMPLY WITH LOCAL AND STATE LAWS, CODES, REGULATIONS AND REQUIREMENTS WHICH GOVERN ANY PORTION OR ALL OF THE WORK CONTAINED IN THIS SECTION. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE LATEST EDITIONS OF:

B. CITY OF ROSEVILLE PARK CONSTRUCTION STANDARDS,

C. CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS,

D. CITY OF ROSEVILLE ELECTRIC DEPARTMENT STANDARD SPECIFICATIONS,

E. LOCAL, STATE AND FEDERAL ELECTRICAL CODES, MANUALS AND GUIDELINES, AND

F. LOCAL, STATE AND FEDERAL PLUMBING CODES, MANUALS AND GUIDELINES.

1.05 SUBMITTALS

A. SUBMITTALS FOR SPECIFIED ITEMS ARE NOT REQUIRED FOR PARKS OR STREETSCAPE PROJECTS, HOWEVER, SUBMITTALS ARE REQUIRED FOR ANY PROPOSED SUBSTITUTIONS OR DEVIATIONS FROM THE PARKS PLANS OR SPECIFICATIONS. FOR STREETSCAPES, NO SUBSTITUTIONS WILL BE ACCEPTED. ADDITIONALLY, SUBMITTALS ARE REQUIRED FOR ONLY THE SPECIFIC ITEMS LISTED BELOW. THE CONTRACTOR SHALL SUBMIT A MATERIALS SUMMARY SHEET INDICATING WHICH ITEMS WILL BE INSTALLED AS SPECIFIED AND WHICH ITEMS ARE PROPOSED FOR SUBSTITUTIONS. THE CONTRACTOR SHALL SUBMIT PROOF OF ORDER WITHIN TEN (10) WORKING DAYS OF THE NOTICE TO PROCEED, INDICATING ALL SPECIFIED MATERIALS HAVE BEEN ORDERED, NOTING "AS SPECIFIED" OR "SUBSTITUTION PROPOSED".

1.6 EXPLANATION OF DRAWINGS

A. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT REFLECT ALL OFFSETS, FITTINGS AND OTHER MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE AND OPERABLE IRRIGATION SYSTEM. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE ALL EXISTING SITE CONDITIONS, BECOME THOROUGHLY FAMILIAR WITH THE SITE, AND PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR THE INSTALLATION OF THE IRRIGATION SYSTEM.

B. AVOID CONFLICTS BETWEEN OTHER TRADES AND THE INSTALLATION OF THE IRRIGATION SYSTEM. MINOR ADJUSTMENTS TO AVOID SUCH CONFLICTS SHALL BE MADE IN THE FIELD. MAJOR DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER. THE LACK OF NOTIFICATION SHALL INDICATE THAT THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY REVISION DEEMED NECESSARY TO ENSURE PROPER INSTALLATION.

1.7 PRODUCT

IRRIGATION SPECIFICATIONS CONTINUED

PART 2 - PRODUCTS

2.1 GENERAL

A. ALL MATERIALS SPECIFIED SHALL BE NEW, BEARING THE BRAND NAME, TYPE, SERIAL NUMBERS AND MODEL NUMBER AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN, UNLESS OTHERWISE ACCEPTED IN WRITING.

2.2 BACKFILL MATERIAL

A. BACKFILL SHALL BE CLEAN, SCREENED, ON-SITE MATERIAL, FREE FROM ORGANIC MATERIAL, LARGE CLODS OF EARTH AND/OR ROCK LARGER THAN ONE (1) INCH IN DIAMETER, TRASH, DEBRIS, RUBBISH, TREE TRUNKS, BROKEN CONCRETE OR ASPHALT AND OTHER UNACCEPTABLE MATERIAL.

B. MATERIAL LARGER THAN ONE (1) INCH SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED. ALL REMOVAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2.3 METER

A. METER SHALL BE AS SHOWN ON THE PLANS AND AS REQUIRED BY THE CITY OF ROSEVILLE ENVIRONMENTAL UTILITIES DEPARTMENT.

2.4 BACKFLOW PREVENTION DEVICE

A. BACKFLOW PREVENTION DEVICE SHALL BE AS SHOWN ON THE PLANS.

B. COVER SHALL BE INSULATED, FREEZE-PROOF, REMOVABLE AND LOCKABLE, MANUFACTURER AND MODEL PER THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS OR ACCEPTED EQUAL.

2.5 FLOW SENSOR AND MASTER VALVE

A. CALSENSE CONTROLLERS:

A.1. FLOW SENSOR SHALL BE A CALSENSE FLOW METER (FM-B) FEATURING A PROPRIETARY, NON-MAGNETIC SENSING MECHANISM AND A SIX-BLADED DESIGN. FLOW SENSOR SHALL BE ACCURATE TO +/- 1% OF FULL SCALE. FLOW SENSOR BODY SHALL BE CONSTRUCTED OF BRONZE.

A.2. MASTER VALVE(S) SHALL BE SUPERIOR, MODEL 3100, ELECTRIC GLOBE VALVE, CONSTRUCTED OF BRASS. FOR INSTALLATIONS WITH A SINGLE MASTER VALVE, THE VALVE SHALL BE NORMALLY OPEN. FOR INSTALLATIONS WITH TWO MASTER VALVES, THE LARGER VALVE SHALL BE NORMALLY CLOSED AND THE SMALLER VALVE SHALL BE NORMALLY OPEN.

A.3. FLOW METERS TO BE CONSTRUCTED CONSISTENT WITH THE CALSENSE SPECIFICATIONS.

A.4. VALVE BOXES FOR MASTER VALVE AND FLOW SENSOR SHALL BE 18" (JUMBO) GREEN RECTANGULAR RIGID PLASTIC VALVE BOXES WITH LOCKABLE LIDS AND EXTENSIONS BY CARSON INDUSTRIES, LLC OR ACCEPTED EQUAL. VALVE BOX LID SHALL BE COLORED GREEN IN TURF AREAS, TAN IN NATURAL PLANTER AREAS, AND PURPLE FOR RECYCLED WATER APPLICATIONS.

2.6 PIPE

A. PVC PRESSURIZED MAINLINE

A.1. FOR LINES THREE INCH (3") OR LARGER: POLYVINYL CHLORIDE (PVC) 1120-1220, SDR 21, CLASS 200 RUBBER GASKETED PIPE, AND NSF ACCEPTED PER STANDARD NO. 14, TYPE I, GRADE I. CONFORM TO:

MATERIAL	ASTM
PIPE	D1784, D2241
RUBBER GASKET	F477

A.2. FOR LINES TWO AND ONE HALF INCHES (2-1/2") OR SMALLER: SCHEDULE 40 POLYVINYL CHLORIDE (PVC) 1120-1220, AND NSF ACCEPTED PER STANDARD NO. 14, TYPE I, GRADE I. CONFORM TO:

MATERIAL	ASTM
PIPE	D1784, D1785

B. PVC NON-PRESSURIZED LATERAL LINES

B.A. SCHEDULE 40 POLYVINYL CHLORIDE (PVC) 1120-1220, SDR 21.0, NSF ACCEPTED PER STANDARD NO. 14, TYPE 1, GRADE II.

2.7 FITTINGS AND NIPPLES

A. FITTINGS FOR POTABLE MAINLINE PIPE:

A.1. FOR ALL MAINLINES THREE INCHES (3") AND LARGER, USE PAINTED, DUCTILE IRON SADDLE TAPS WITH DOUBLE STAINLESS STEEL STRAPS AND NUTS MODEL #202 BY ROMAC INDUSTRIES, INC. OR ACCEPTED EQUAL.

A.2. FOR ALL MAINLINES THREE INCHES (3") AND LARGER MAINLINE PIPE, USE GLUED SCHEDULE 80 FITTINGS.

A.3. FOR ALL MAINLINES TWO AND ONE HALF INCHES (2-1/2") OR SMALLER, USE GLUED SCHEDULE 40 FITTINGS

B. FITTINGS FOR POTABLE-SOLVENT WELD PIPE:

B.1. SCHEDULE 40 FOR 2" PIPES OR SMALLER AND SCHEDULE 80 FOR 3" PIPE AND LARGER POLYVINYL CHLORIDE (PVC), STANDARD WEIGHT, CONFORMING TO ASTM D2466-73. USE SCHEDULE 80 FOR ALL RECYCLED WATER SYSTEMS.

B.2. WELD-ON #P-70 PRIMER AND WELD-ON #711 GRAY GLUE OR ACCEPTED EQUAL.

B.3. TEFLON TAPE FOR ALL THREADED PVC FITTINGS.

C. PLASTIC NIPPLES SHALL BE SCHEDULE 80, TYPE 1, GRADE 1, POLYVINYL CHLORIDE (PVC), THREADED AT BOTH ENDS, AND CONFORMING TO ASTM D1784 -85. NIPPLES SHALL BE UNIFORMLY GRAY.

2.8 SWING JOINTS

A. SWINGS JOINTS SHALL BE AS SHOWN IN THE CITY PARKS CONSTRUCTION STANDARD DETAIL. SCHEDULE 40 THREADED PVC TRIPLE SWING JOINTS OR AN ACCEPTED EQUAL.

2.9 ELECTRIC REMOTE CONTROL VALVE

A. SIZES AS SHOWN ON THE PLANS. ALL VALVES SHALL BE RAINBIRD PEB SERIES OR ACCEPTED EQUAL AND SHALL CONTAIN THE FOLLOWING:

A.1. A GLOBE-TYPE ELECTRIC REMOTE CONTROL, NORMALLY CLOSED DIAPHRAGM TYPE WITH SLOW OPENING AND CLOSING ACTION,

A.2. ENCAPSULATED SOLENOID TYPE ACTUATION,

A.3. A MINIMUM RATING OF TWENTY-FOUR (24) VOLTS,

A.4. SIXTY (60) CYCLE,

A.5. TWO TO FIVE (2-5) WATTS,

A.6. A MANUAL FLOW ADJUSTMENT WITH SHUT-OFF PROVISIONS,

A.7. PROVISIONS FOR AN EXTERNAL "BLEED" OF THE DIAPHRAGM CHAMBER FOR MANUAL OPERATION.

A.8. A BALL VALVE ON THE INLET.

A.9. SCHEDULE 80 PVC THREADED FITTINGS FROM SADDLE TAP TO POC TO VALVE.

B. PRESSURE REGULATED VALVE OR PRS DIAL REQUIRED FOR STATIONS WITH DRIP IRRIGATION

C. VALVE BOXES SHALL BE GREEN 12" RECTANGULAR RIGID PLASTIC VALVE BOXES WITH LOCKABLE LIDS AND EXTENSIONS BY CARSON INDUSTRIES, LLC OR ACCEPTED EQUAL. VALVE BOX SHALL BE COLORED GREEN IN TURF AREAS, TAN IN NATURAL PLANTER AREAS.

D. LABEL LIDS USING HEAT BRANDED IDENTIFICATION, T:TURF, S:SHRUBS, B:BUBBLERS

E. CONTROLLER STATION IDENTIFICATION NUMBER SHALL BE STANDARD YELLOW TAGS WITH PERMANENT NUMBERS BY CHRISTY OR ACCEPTED EQUAL.

2.10 IRRIGATION HEADS

A. ALL IRRIGATION HEADS SHALL CONFORM TO TYPE, SIZE, PRECIPITATION RATE, GALLONS PER MINUTE DISCHARGE, PRESSURE AND THROW RADIUS AS SHOWN ON THE PLANS, UNLESS OTHERWISE ACCEPTED IN WRITING.

B. IN ALL AVAILABLE MODELS, ALL IRRIGATION HEADS SHALL HAVE STAINLESS STEEL RISERS, UNLESS OTHERWISE APPROVED IN WRITING.

C. IRRIGATION HEADS SHALL HAVE BUILT-IN PRESSURE REGULATION FOR POP UP SPRAYS AND/OR WATER-EFFICIENT HEADS.

2.11 THRUST BLOCKS

A. ALL THRUST BLOCKS SHALL BE CONCRETE. THE SIZE OF THE BLOCKS SHALL BE DETERMINED BY THE AVERAGE SAFE SOIL-BEARING LOAD OF 700 LBS. PER SQUARE FOOT.

B. POLYETHYLENE FOR THRUST BLOCKS SHALL BE 6MIL.

2.12 QUICK COUPLER VALVES

A. FOR POTABLE WATER, QUICK COUPLING VALVES SHALL BE RAINBIRD #44LRC OR ACCEPTED EQUAL. ALL QUICK COUPLING VALVES SHALL BE:

A.1. BRASS OR BRONZE WITH ONE (1) IPS FEMALE PIPE CONNECTION,

A.2. TWO PIECE BODY WITH A REMOVABLE UPPER PORTION (FOR REPLACEMENT), AND

A.3. DURABLE YELLOW COVERS FOR POTABLE AND PURPLE FOR RECYCLED.

B. VALVE KEYS SHALL BE BRASS OR BRONZE AND SHALL BE OF THE SAME MANUFACTURER AND SIZE AS THE VALVE.

C. VALVE BOX SHALL BE RIGID PLASTIC, A MINIMUM OF TEN INCHES (10") IN DIAMETER WITH LOCKABLE COVER BY CARSON INDUSTRIES, LLC OR ACCEPTED EQUAL. VALVE BOX SHALL BE COLORED GREEN IN TURF AREAS, TAN IN NATURAL PLANTER AREAS, AND PURPLE FOR RECYCLED WATER APPLICATIONS.

2.13 MANUAL VALVES

A. FOR PIPE FOUR INCHES (4") AND LARGER GATE VALVES SHALL BE:

A.1. LOCATED WHERE SHOWN ON THE PLANS,

A.2. FLANGED WITH CLASS 125 CAST IRON BODY,

A.3. BRONZE TRIMMED WITH A NON-RISING STEM,

A.4. SQUARE OPERATING NUT,

A.5. ABLE TO WITHSTAND A COLD WATER PRESSURE OF 150 POUNDS PER SQUARE INCH, AND

A.6. SIZED TO MATCH THE PIPELINE WHICH THE VALVES SERVE, UNLESS OTHERWISE SHOWN ON THE PLANS.

B. FOR PIPE THREE INCHES (3") OR SMALLER AND ON PIPES WHICH FEED DIRECTLY INTO A REMOTE CONTROL VALVE, BALL VALVES SHALL BE INSTALLED AND SHALL:

B.1. ALLOW FOR MANUAL OPERATIONS,

B.2. RAPID ON/OFF , DRIP-TIGHT SHUT-OFF CONTROL,

B.3. BE CONSTRUCTED OF BRONZE OR BRASS WITH HEAVY-DUTY HANDLE,

B.4. OPERATE UP TO 22 GALLONS PER MINUTE,

B.5. OPERATE BETWEEN 15 AND 150 POUNDS PER SQUARE INCH, AND

B.6. BE SIZED TO MATCH THE PIPELINE WHICH THE VALVES SERVE, UNLESS OTHERWISE SHOWN ON THE PLANS.

C. VALVE BOX SHALL BE RIGID PLASTIC, A MINIMUM OF TEN INCHES (10") IN DIAMETER WITH EXTENSIONS AND LOCKABLE COVER BY CARSON INDUSTRIES, LLC, AS SHOWN ON THE PLANS OR ACCEPTED EQUAL. VALVE BOX SHALL BE COLORED GREEN IN TURF AREAS AND COLORED TAN IN NATURAL PLANTER AREAS.

2.14 AUTOMATIC IRRIGATION CONTROLLER

A. AUTOMATIC CONTROLLERS SHALL BE CALSENSE ET2000E OR ACCEPTED EQUAL, AS DISTRIBUTED BY CALSENSE. EACH CONTROLLER SHALL INCLUDE:

A.1. LR - CALSENSE LOCAL RADIO,

A.2. RRE - RADIO RECEIVER BOARD,

A.3. FMB - FLOW METER (BRASS),

A.4. RRE-TRAN - RADIO REMOTE TRANSMITTER

A.5. SSE-R OR SSE-D-R - STAINLESS STEEL ENCLOSURE WITH:

A.5.1. TP-1 - TRANSIENT PROTECTION

A.5.2. TP-110 - AC LINE PROTECTION,

A.5.3. LR-DOME-RRE - ANTENNAE W/ 2FT CABLE

A.5.4. GFI ELECTRICAL OUTLET INSIDE ENCLOSURE.

WHEN MULTIPLE CONTROLLERS ARE USED, INCLUDE:

A.6. FL - FLOWSENSE SOFTWARE (FOR MULTIPLE CONTROLLERS SHARING POC)

WHEN MULTIPLE FLOW SENSORS ARE USED, INCLUDE:

A.7. F - ADDITIONAL FLOW METER INTERFACE.

B. COMMUNICATION WIRE BETWEEN CONTROLLERS SHALL BE PAIGE CABLE P7171D OR ACCEPTED EQUAL.

2.15 CONTROL WIRES

A. DIRECT BURIAL SOLID COPPER WIRE AWG-U.F. 600 VOLT.

B. COMMON WIRE SHALL BE MINIMUM #12-GAUGE.

C. PILOT WIRES SHALL BE RED.

D. SPLICES:

D.1. WIRE CONNECTIONS AT REMOTE CONTROL VALVES ONLY SHALL UTILIZE 3M DIRECT BURY SPLICE KIT MODEL #DBY (YELLOW) OR MODEL #DBR (RED).

D.2. ALL OTHER SPLICES, INCLUDING LINE SPLICES, CONNECTIONS TO FLOW METERS AND OTHER SENSORS, SHALL UTILIZE 3M SCOTCHCAST 3570G CONNECTOR SEALING PACKS, OR ACCEPTED EQUAL.

E. WIRING COLORS SHALL BE:

USE	COLOR
FLOW	YELLOW
MASTER	BLUE
PUMP	BLACK
VALVES	RED
COMMON	WHITE
SPARE	ORANGE
TRACER	GREEN

2.16 SLEEVES

A. SCHEDULE 40 PVC 1120-1220 AND TWO TIMES THE DIAMETER OF THE LARGEST PIPE TO BE ACCOMMODATED BY THE SLEEVE, ONE (1) FOR CONTROL WIRES AND ONE (1) FOR MAIN LINE, AND ONE (1) FOR LATERAL LINES.

B. MAXIMUM ONE (1) LINE PER SLEEVE.

C. ADD ONE (1) SPARE, SAME SIZE AS LARGEST.

2.17 TRACER WIRE

A. INSULATED SOLID COPPER WIRE, MINIMUM #12 GAUGE. COLOR SHALL BE GREEN.

PART 3 - EXECUTION

3.1 SITE CONDITIONS

A. PRIOR TO START OF IRRIGATION WORK, REVIEW THE SITE CONDITIONS TO VERIFY THAT STUB-OUTS, POINTS OF CONNECTIONS, SIZES OF THE POINTS OF CONNECTIONS, WATER PRESSURE AND OTHER ESSENTIAL ITEMS NECESSARY FOR IRRIGATION WORK TO COMMENCE ARE AS SHOWN ON THE PLANS AND AS INDICATED IN THE SPECIFICATIONS.

B. NOTIFY THE INSPECTOR IMMEDIATELY OF ANY EXISTING CONDITIONS WHICH ARE UNACCEPTABLE FOR THE COMMENCEMENT OF IRRIGATION WORK.

3.2 COORDINATION OF WORK

A. COORDINATE ALL WORK WITH OTHER TRADES.

B. THE IRRIGATION PLAN IS DIAGRAMMATIC. WHENEVER POSSIBLE, LOCATE ALL PIPES IN PLANTED OR TURF AREAS. DO NOT SCALE OFF OF THE PLANS. WHERE FIELD CONDITIONS HAVE CHANGED, NOTIFY THE INSPECTOR IMMEDIATELY.

3.3 EXCAVATION AND TRENCHING

A. TRENCHES SHALL BE DUG STRAIGHT AND IN SUCH A MANNER AS TO COMPLETELY SUPPORT THE PIPE CONTINUOUSLY ALONG THE BOTTOM OF THE TRENCH. IN ROCKY CONDITIONS, OVER-EXCAVATION AND PLACEMENT OF CLEAN BEDDING MATERIAL MAY BE REQUIRED TO ENSURE PROTRUDING ROCKS DO NOT PLACE UNDUE STRESS ON PIPES. TRENCH LAYOUT SHALL FOLLOW THAT SHOWN ON THE PLANS, EXCEPT WHERE ACCEPTED BY THE CITY.

B. THE FOLLOWING MINIMUM COVER SHALL BE PROVIDED FOR PIPE:

PIPE TYPE	MINIMUM COVER
PRESSURIZED MAINLINES	24"
NON- PRESSURIZED LATERAL LINES	18"
DOMESTIC WATER LINES	24"
CONTROL WIRES	24"
PVC SLEEVES UNDER PAVING	18"
PVC SLEEVES UNDER AUTO XINGS	24"

C. INSTALL DETECTION WIRE, LOOPED IN AND OUT OF VALVE BOXES AND ATTACHED TO ALL IRRIGATION MAINLINES.

D. HIGH VOLTAGE WIRES SHALL NOT BE INSTALLED IN THE SAME IRRIGATION WATER LINE TRENCH.

3.4 TESTING AND FLUSHING

A. TESTING SHALL OCCUR ONLY WHEN THE FOLLOWING CONDITIONS CAN BE FULFILLED:

ITEM DESCRIPTION	CONDITION
QUICK COUPLER VALVES	INSTALLED AND CAPPED, WITHOUT SWING JOINT
ELECTRIC REMOTE CONTROL VALVES	INSTALLED
FLOW VALVE	INSTALLED AND OPEN
BALL/GATE VALVE	INSTALLED AND OPEN
LATERAL LINES	DISCONNECTED
WELDED PVC JOINTS	CURED AT LEAST 24 HOURS
PIPE	CENTER LOADED WITH BACKFILL
COUPLINGS AND FITTINGS	EXPOSED
DETECTION WIRE	INSTALLED

B. CONTINUOUS PRESSURE SHALL BE APPLIED AT A RATE OF 125 PSI FOR ALL MAINLINES IN ACCORDANCE WITH THE CALTRANS STANDARD SPECIFICATIONS, SECTION 20-5.03H, EXCEPT WHEN THERE IS A MAXIMUM DROP OF 5 PSI. THE PRESSURE SHALL REMAIN STABLE FOR A MINIMUM OF ONE HOUR BEFORE THE TEST WILL BE ACCEPTED.

C. PRESSURE GAUGES SHALL BE INSTALLED AT EACH END OF THE LINE AND SHALL RUN A MINIMUM OF FOUR HOURS. UPON COMPLETION OF THE TEST, A COMPLETE EXAMINATION OF THE LINE SHALL BE CONDUCTED BY THE CITY. LEAKS RESULTING FROM THE TEST SHALL BE REPAIRED AND THE LINE SHALL BE RE-TESTED. THIS PROCESS SHALL BE REPEATED UNTIL THE LINE PASSES THE LEAKAGE TEST.

D. ALL LINES AND RISERS SHALL BE FLUSHED PRIOR TO FINAL INSTALLATION OF IRRIGATION HEADS. ALL CONTROL VALVES SHALL BE LEFT OPEN DURING THE FLUSHING PROCESS

3.5 BACKFILLING AND COMPACTING

A. BACKFILLING OF TRENCHES SHALL NOT OCCUR UNTIL ALL TESTS AND REVIEWS HAVE BEEN PERFORMED. SEE INSPECTION RECORD CONTAINED IN THE PARKS CONSTRUCTION STANDARDS, LATEST EDITION. ANY TRENCH THAT IS PREMATURELY BACKFILLED MAY BE REQUIRED TO BE RE-DUG FOR REVIEW.

B. COMPACTION OF THE TRENCHED AREAS SHALL MEET THE FOLLOWING COMPACTION RATES OF 95% IN AREAS TO RECEIVE PAVING AND 85% IN AREAS TO BE PLANTED.

C. DO NOT FLOOD TRENCHES UNLESS OTHERWISE ACCEPTED BY THE CITY.

D. SUNKEN TRENCHES SHALL BE RE-FINISHED FLUSH WITH THE ADJACENT GRADES.

3.6 BACKFLOW PREVENTION DEVICE AND ENCLOSURE

A. INSTALL PER LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS.

B. WHEN THE FLOW METER IS INSTALLED ABOVE GRADE, INSTALL A BACKFLOW PREVENTION DEVICE ENCLOSURE WITH LOCKABLE GATE.

3.7 FLOW METER INSTALLATION

A. INSTALL PER LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS.

B. ALL FLOW METERS SHALL BE INSTALLED IN GROUND.

C. INSTALL 3/4" CONDUIT FROM IRRIGATION CONTROLLER TO FLOW METER VALVE BOX. INSTALL A PULL BOX EVERY 100'.

D. VALVE BOX LIDS SHALL BE PERMANENTLY MARKED IDENTIFYING FM FOR FLOW METER AND MV FOR MASTER VALVE AND GR FOR GROUNDING ROD WITH HEAT BRANDING USING STENCILS IN A UNIFORM LOCATION ON ALL BOXES THROUGHOUT.

3.8 PIPE INSTALLATION

A. INSTALL IRRIGATION PIPE IN PLANTED AREAS WHENEVER POSSIBLE.

B. ALL PIPE AND FITTINGS SHALL BE CLEANED AND FREE FROM DIRT, DUST AND MOISTURE.

C. PIPE MAY BE ASSEMBLED ALONG THE TRENCH AT GRADE TO AVOID UNDUE STRAIN ON THE PIPE OR THE FITTINGS. ALL SOLVENT WELD CONNECTIONS SHALL BE PRIMED BEFORE APPLYING GLUE. SNAKE THE PIPE WITHIN THE TRENCH TO COMPENSATE FOR EXPANSION AND CONTRACTION.

D. ALL PVC PIPE AND METAL VALVE CONNECTIONS SHALL BE MADE WITH THREADED FITTINGS CONSISTENT WITH DRAWINGS PK-15 AND PK-16 OF THE CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS.

E. ALL PVC-TO-PVC THREADED CONNECTIONS SHALL BE MADE WITH TEFLON TAPE.

F. INSTALL CONCRETE THRUST BLOCKS IN LOCATIONS WHERE RUBBER GASKETED IRRIGATION MAINLINES CHANGE DIRECTIONS, E.G. ELLS, TEES; AS REQUIRED ON OTHER LINES AND FITTINGS; AND AT THE TERMINATION POINT OF THE MAINLINE. DO NOT CONDUCT A PRESSURE TEST WITHIN 48 HOURS OF THE THRUST BLOCK POURS. THE SIZE OF THE THRUST BLOCKS SHALL BE PER MANUFACTURER'S INSTRUCTIONS AND SHALL BE ADEQUATE IN SIZE TO ABSORB THRUSTS UP TO THE MAXIMUM INTERNAL WATER PRESSURE.

G. CONCRETE OR THRUST BLOCKS SHALL NOT BE POURED ON VALVE WIRES.

H. USE GLUED FITTINGS FOR ALL CONNECTIONS INSIDE OF A SLEEVE AND WITHIN 20' OF A SLEEVE.

3.9 ELECTRIC REMOTE CONTROL VALVES

A. INSTALL PER LOCAL CODES, MANUFACTURER'S INSTRUCTIONS, CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS AND AS SHOWN ON THE PLANS.

B. INSTALL ONE (1) ELECTRIC REMOTE CONTROL VALVE PER BOX AND WHENEVER POSSIBLE, GROUP VALVE BOXES TOGETHER. ALIGN BOXES IN A STRAIGHT AND NEAT ROW AND FLUSH TO FINISH GRADE. PROVIDE A MINIMUM OF SIX (6) INCHES BETWEEN BOXES.

C. ALL VALVES SHALL BE TAGGED FOR EASY IDENTIFICATION OF VALVE NUMBER. VALVE BOX LIDS SHALL BE PERMANENTLY MARKED IDENTIFYING VALVE NUMBER AND CONTROLLER LETTER WITH HEAT BRANDING USING STENCILS IN A UNIFORM LOCATION ON ALL BOXES THROUGHOUT.

D. EACH VALVE SHALL BE SEPARATELY SADDLE TAPPED. MANIFOLDED VALVES SHALL BE REJECTED.

E. LOCATE VALVE BOXES OUTSIDE OF TURF AREAS, ADJACENT TO PAVING, I.E. SIDEWALKS, HARDSCAPE, ETC. EXCEPT WHERE SHOWN ON THE PLANS.

F. PROVIDE A MINIMUM OF EIGHTEEN (18) INCHES OF A COMPLETE SET OF SPARE CONTROL WIRES, LOOPED, WITHIN ALL CONTROL VALVE BOXES.

3.10 IRRIGATION HEADS

A. INSTALL ALL HEADS WHERE SHOWN ON THE PLANS AND AS SPECIFIED HEREIN.

B. SPACING OF HEADS IN TURF SHALL NOT EXCEED 45 FEET ON CENTER.

C. ROTARY POP-UP HEADS SHALL BE INSTALLED FLUSH WITH THE TOP OF FINISH GRADES OF PLANTING AREAS.

D. SPRINKLER HEAD RISER NIPPLES SIZES SHALL MATCH OR BE THE SAME AS THE RISER OPENING OF THE SPRINKLER BODY.

E. INSTALL SPRINKLER HEADS WITH INTERNAL CHECK VALVES WHERE HEADS ARE LOCATED IN LOW DRAINAGE AREAS, I.E. BOTTOM OF BERMS, BOTTOM OF DRAINAGE SWALES, TOE OF SLOPES, ETC.

F. INSTALL ALL HEADS PERPENDICULAR TO GROUND SURFACE WITH AN OFFSET FROM THE EDGE OF PAVEMENT AS INDICATED IN THE DETAILS.

3.11 QUICK COUPLER AND GATE VALVES

A. INSTALL PER LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS.

B. LOCATE VALVE BOXES FLUSH WITH FINISH GRADE, TWELVE (12) INCHES FROM WALKWAYS, CURBS, HEADER BOARDS, ETC., AND WITHIN PLANTED AREA WHENEVER POSSIBLE.

C. INSTALL ONE (1) VALVE PER BOX.

D. FOR QUICK COUPLER VALVES, INSTALL AT 100 FEET ON CENTER TO THE EXTENT POSSIBLE. PROVIDE A 24" STEEL SUPPORT STAKED ADJACENT TO THE RISER USING TWO (2) STAINLESS STEEL CLAMPS.

E. FOR GATE VALVES, INSTALL AT LOCATIONS INDICATED ON THE PLANS.

F. FOR VALVE BOXES INSTALLED BELOW GRADE, PROVIDE 3M BALL MARKERS.

G. VALVE BOX LIDS SHALL BE PERMANENTLY MARKED IDENTIFYING GV FOR GATE VALVE AND QC FOR QUICK COUPLERS, AND SB FOR SPLICE BOXES WITH HEAT BRANDING USING STENCILS IN A UNIFORM LOCATION ON ALL BOXES THROUGHOUT.

3.12 AUTOMATIC CONTROLLER

A. INSTALL PER LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS WITHIN THE SPECIFIED ENCLOSURE.

B. PROVIDE SINGLE PAIGE CABLE P-7171D INSTALLED IN CONDUIT BETWEEN ALL CONTROLLERS.

C. PROVIDE ALL NECESSARY WIRING FOR A COMPLETE INSTALLATION BETWEEN THE CONTROLLER AND THE VALVES.

D. ABOVE GRADE WIRING SHALL BE INSTALLED IN METAL CONDUIT, UNLESS OTHERWISE ACCEPTED. SECURELY MOUNT CONDUIT ONTO ENCLOSURE OR WALL AND PAINT TO MATCH THE ADJACENT SURFACE.

E. PROVIDE A GROUNDING ROD AND BONDING FOR EACH ENCLOSURE AS REQUIRED FOR LIGHTNING PROTECTION. GROUNDING ROD SHALL BE CONSISTENT WITH DRAWING PK-1 OF THE CITY OF ROSEVILLE PARKS CONSTRUCTION STANDARDS. INSTALL SEPARATE GROUNDING RODS FOR EACH ENCLOSURE WHERE BONDING IS IMPRACTICAL.

F. LABEL EACH CONTROLLER, USING PERMANENT MARKINGS, WITH THE LETTER IDENTIFICATION INDICATED ON THE PLANS. AFFIX LABEL ON THE INSIDE OF THE CONTROLLER CABINET DOOR.

G. INSTALL 110V OUTLET (GFIC) INSIDE CONTROLLER ENCLOSURE.

H. PROVIDE TWO (2) REDUCED AS-BUILT IRRIGATION DIAGRAMS, LAMINATED AND COLOR- CODED INDICATING CONTROLLER LETTER, VALVE/STATION NUMBERS, VALVE SIZE, OPERATING PRESSURE, GALLONS PER MINUTE AND TYPE OF PLANTING FOR EACH VALVE. SEE SECTION 01 10 00: SUMMARY OF WORK 1.15B.

I. GROUND TEST TO BE CONDUCTED AFTER INSTALLATION. TEST RESULTS SHALL NOT EXCEED 25 OHMS.

3.13 CONTROL WIRES

A. WHEREVER POSSIBLE, INSTALL CONTROL WIRES IN COMMON TRENCHES WITH MAINLINE OR LATERAL SPRINKLER LINES. THE WIRES SHALL BE TAPED IN BUNDLES AT TEN (10) FEET ON CENTER AND LAID TO THE SIDE OF THE PIPE. PROVIDE SLACK BETWEEN TIES TO ALLOW FOR CONTRACTION.

B. WIRE VALVE TO CONTROLLER AS SHOWN ON THE PLANS.

C. WHERE RUNS ARE LONG, PROVIDE AN EXTRA THREE (3) FEET OF EXTRA GROUND AND CONTROL WIRES LOOPED AT 200' INTERVALS. SNAKE WIRES WITHIN TRENCHES TO ALLOW FOR CONTRACTION.

D. LINE SPLICES SHALL OCCUR IN VALVE BOXES AT GRADE, LABEL AND ALLOWED ONLY ON LENGTHS GREATER THAN 2500'. SHOW LOCATIONS ON AS-BUILT PLANS.

E. DO NOT WRAP WIRE AROUND PIPE OR ALLOW ANY WIRING TO BE PLACED IN CONCRETE OR CONCRETE THRUST BLOCKS.

F. INSTALL TWO (2) SPARE WIRES STARTING FROM THE CONTROLLER, LOOPED TO EACH VALVE BOX TO THE FURTHEST VALVE BOX, WITHOUT SPLICES.

3.14 TRACER WIRE

A. INSTALL TRACER WIRE ON TOP OF THE MAINLINE.

B. PROVIDE A TWELVE-INCH (12") LOOP IN AND OUT OF EACH VALVE BOX. SOLDER ALL SPLICES.

C. WHERE POTABLE WATER LINES ARE PLACED IN A SEPARATE TRENCH, INSTALL A TRACER WIRE ON TOP OF THE POTABLE WATER LINE.

D. TRACER WIRE SHALL BE TESTED DURING REVIEW AND PRESSURE TEST OF THE MAINLINE.

3.15 SLEEVES

A. INSTALL SLEEVES UNDER ALL PAVEMENT AND AS SHOWN ON THE PLANS. B.

B. INSTALL SLEEVES AT THE DEPTHS INDICATED IN SECTION 3.03B ABOVE.

C. EXTEND SLEEVES A MINIMUM OF TWELVE (12) INCHES BEYOND THE EDGE OF PAVEMENT.

D. AT EVERY SLEEVE INSTALLED, PROVIDE A SPARE THREE (3) INCH PVC SLEEVE CAPPED AT EACH END AND MARKED WITH A 3M BALL MARKER.

3.16 THRUST BLOCKS

A. INSTALL POLYETHYLENE BETWEEN MAINLINE AND CONCRETE.

B. THRUST BLOCKS SHALL BE FORMED AGAINST A SOLID TRENCH WALL. THE THRUST BLOCK CAVITY SHALL BE IN UNDISTURBED SOIL OR PREVIOUSLY PLACED COMPACTED BACKFILL THAT YIELDS AN ACCEPTABLE ALLOWABLE BEARING PRESSURE.

3.17 COVERAGE TEST

A. PRIOR TO THE WATER AUDIT, THE CONTRACTOR SHALL PERFORM A COVERAGE TEST TO CONFIRM THAT WATER COVERAGE IS COMPLETE AND ADEQUATE. THE COVERAGE TEST SHALL BE PERFORMED ON THE ENTIRE IRRIGATION SYSTEM AND SHALL BE PERFORMED IN THE PRESENCE OF THE PARKS INSPECTOR.

3.18 WATER AUDIT

A. A WATER AUDIT SHALL BE PERFORMED AFTER SUCCESSFUL COMPLETION OF THE COVERAGE TEST AND PRIOR TO PLANTING. THE IRRIGATION SYSTEM MUST BE 100% COMPLETE, INCLUDING FUNCTIONALITY OF THE IRRIGATION CONTROLLER AND BOOSTER PUMP, IF PRESENT.

B. THE WATER AUDIT SHALL BE PERFORMED BY A CERTIFIED LANDSCAPE IRRIGATION AUDITOR (CLIA), AS ISSUED BY THE IRRIGATION ASSOCIATION, AND SHALL CONFORM TO THE SPECIFIC WATER AUDIT REQUIREMENTS OF THE CITY OF ROSEVILLE PARKS, RECREATION & LIBRARIES DEPARTMENT. DUE TO EVER-CHANGING WATER REGULATIONS, A CURRENT VERSION OF THE IRRIGATION WATER AUDIT WILL BE PROVIDED AT PROJECT COMMENCEMENT TO ENSURE THE MOST UP-TO-DATE INFORMATION IS AVAILABLE.

3.19 CLEAN UP

A. EACH PHASE OF WORK SHALL BE IMMEDIATELY CLEANED UP. EXCESS EQUIPMENT, MATERIAL, ETC., SHALL BE LEGALLY DISPOSED OF AND REMOVED FROM SITE. ALL CONCRETE, ASPHALT AND/OR DECOMPOSED GRANITE PAVING SHALL BE KEPT FREE OF SOIL. DAMAGE TO SUCH SURFACES SHALL BE IMMEDIATELY REPAIRED TO THE SATISFACTION OF THE CITY.

PART 4 - GUARANTEE

4.1 GENERAL

A. CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE COVERING ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FURNISHED BY HIM TO BE FREE OF ALL DEFECTS AFTER INSTALLATION IS ACCEPTED, INCLUDING ALL DEFECTIVE PARTS THAT MAY HAVE BEEN FOUND.

B. ALL PAVED AREAS SHALL BE SWEPT CLEAN AND PLANTED AREAS SHALL BE WEED-FREE.

C. ALL IRRIGATION HEADS SHALL BE PROPERLY ADJUSTED. DEBRIS AND REFUSE SHALL BE REMOVED FROM SITE PRIOR TO INSPECTION.

4.2 PRE-FINAL (PUNCH LIST) REVIEW

A. SEE SECTION 01 10 00 1.16 - SUMMARY OF WORK FOR NOTIFICATION PROCESS.

4.3 ESTABLISHMENT

A. FULL AUTOMATED UTILIZATION OF THE IRRIGATION SYSTEM SHALL BE INCLUDED AS PART OF THE MAINTENANCE OF THE PROJECT. SEE SECTION 329000: PLANTING FOR ADDITIONAL INFORMATION.

B. PROGRAM AND UTILIZE THE ESTABLISHMENT SCHEDULE AS SUBMITTED WITH THE TURN-IN ITEMS.

C. CONTRACTOR TO RUN THE SYSTEM IN "QUANTITY" MODE OR "TIME PLUS FLOW" FOR A MINIMUM OF ONE (1) WEEK.

D. CHECK THE IRRIGATION SYSTEM WEEKLY TO ENSURE PROPER OPERATIONS. MAKE ALL NECESSARY ADJUSTMENTS, INCLUDING WATERING SCHEDULE TO ENSURE PROPER AND HEALTHY PLANT GROWTH. AT NO TIME SHALL POOLS OF WATER BE PRESENT WITHIN ANY PART OF THE PROJECT. CONVERSELY, AT NO POINT SHALL DRY OR UNDER-WATERED SPOTS BE VISIBLE UPON INSPECTION.

4.4 FINAL REVIEW

A. THE CONTRACTOR SHALL DEMONSTRATE TO THE CITY, VALVE BY VALVE, THE ENTIRE IRRIGATION SYSTEM TO BE OPERABLE. ALL HEADS SHALL BE ADJUSTED/FLUSHED AND ALL DRIP ZONES SHALL BE FLUSHED PR

PLANTING SPECIFICATIONS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

A. THE REQUIREMENTS SET FORTH IN THE GENERAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

B. THE REQUIREMENTS SET FORTH IN THE SUPPLEMENTAL CONDITIONS SHALL BE IN ADDITION TO THE STANDARDS PROVIDED HEREIN.

1.2 DESCRIPTION

A. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF LANDSCAPE ITEMS, INCLUDING ALL TREES, SHRUBS, GROUNDCOVERS AND TURF; MAINTENANCE FOR THE ESTABLISHMENT OF NEW PLANT MATERIALS; AND ALL NECESSARY APPURTENANCES FOR PROPER PLANTING, NOTED OR IMPLIED, AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN.

1.3 RELATED WORK

B. SECTION 31 20 00: EARTHWORK

C. SECTION 32 84 00: IRRIGATION SYSTEM

1.4 QUALITY ASSURANCE

A. PROVIDE AN EXPERIENCED FOREMAN WHO SHALL DIRECTLY SUPERVISE THE WORK FORCE DURING ALL WORK TO BE PERFORMED UNDER THIS CONTRACT. THE FOREMAN SHALL BE PRESENT DURING THE TIME WHEN WORK IS TO BE PERFORMED.

B. PLANT MATERIAL SHALL CONFORM TO CURRENT "AMERICAN STANDARDS FOR NURSERY STOCK" AND THE STATE OF CALIFORNIA GRADING CODE OF NURSERY STOCK, NO. 1 GRADE. USE ONLY NURSERY-GROWN STOCK.

C. ALL PLANT MATERIAL SHALL BE CERTIFIED FREE OF PLANT DISEASES AND INSECT INFESTATIONS FROM THE COUNTY AGRICULTURAL COMMISSIONER AS REQUIRED BY LAW. EACH SHIPMENT OF PLANT MATERIAL SHALL BE REQUIRED TO HAVE CLEARANCE CERTIFICATES.

D. PRIOR TO PLANTING, A SOILS FERTILITY TEST/ANALYSIS SHALL BE CONDUCTED BY AN ACCEPTED AND QUALIFIED TESTING LABORATORY. TEST RESULTS SHALL CONTAIN EXISTING NUTRIENT LEVELS, SOIL TEXTURE, CATION EXCHANGE CAPACITY, SOLUBLE SALTS, PH LEVELS, INFILTRATION RATES AND RECOMMENDED SOIL AMENDMENTS/FERTILIZERS TO ENSURE PROPER GROWTH OF THE SPECIFIED PLANTINGS.

1.05 SUBMITTALS

A. SUBMITTALS FOR SPECIFIED ITEMS ARE NOT REQUIRED; HOWEVER, SUBMITTALS ARE REQUIRED FOR ANY PROPOSED SUBSTITUTIONS OR DEVIATIONS FROM THE PLANS OR SPECIFICATIONS. ADDITIONALLY, SUBMITTALS ARE REQUIRED FOR THE SPECIFIC ITEMS LISTED BELOW. THE CONTRACTOR SHALL SUBMIT A MATERIALS SUMMARY SHEET INDICATING WHICH ITEMS WILL BE INSTALLED AS SPECIFIED AND WHICH ITEMS ARE PROPOSED FOR SUBSTITUTIONS. THE CONTRACTOR SHALL SUBMIT PROOF OF ORDER WITHIN TEN (10) WORKING DAYS OF THE NOTICE TO PROCEED, INDICATING ALL SPECIFIED MATERIALS HAVE BEEN ORDERED, NOTING "AS SPECIFIED" OR "SUBSTITUTION PROPOSED". SUBMITTALS ARE REQUIRED ON THE FOLLOWING ITEMS:

A.1. ROCK MULCH MATERIAL,

A.2. CERTIFICATES OF COMPLIANCE FOR SOIL AMENDMENTS, FERTILIZERS

A.3. SOILS TEST-WITH SOIL AMENDMENT RECOMMENDATIONS.

B. SUBMIT ALL REQUESTS FOR SUBSTITUTIONS OF PLANT SPECIES, OR SIZE TO THE OWNER'S REPRESENTATIVE, FOR APPROVAL, PRIOR TO PURCHASING THE PROPOSED SUBSTITUTION. REQUEST FOR SUBSTITUTION SHALL BE ACCOMPANIED WITH A LIST OF NURSERIES CONTACTED IN THE SEARCH FOR THE REQUIRED PLANT AND A RECORD OF OTHER ATTEMPTS TO LOCATE THE REQUIRED MATERIAL. REQUESTS SHALL ALSO INCLUDE SOURCES OF PLANTS FOUND THAT MAY BE OF A SMALLER OR LARGER SIZE, OR A DIFFERENT SHAPE OR HABIT THAN SPECIFIED, OR PLANTS OF THE SAME GENUS AND SPECIES BUT DIFFERENT CULTIVAR ORIGIN, OR WHICH MAY OTHERWISE NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS, BUT WHICH MAY BE AVAILABLE FOR SUBSTITUTION.

1.6 SOIL TESTING

A. NATIVE SOIL AND IN-PLACE TOPSOIL SHALL BE TESTED FOR AMENDMENT DETERMINATION. SOIL TESTS SHALL INCLUDE SOIL TEXTURE, MACRO NUTRIENTS, MICRO NUTRIENTS, LIME, BASE SATURATION, PH, SODIUM, BORON, SALINITY, CATION EXCHANGE CAPACITY (CEC), AND ORGANIC CONTENT.

B. SUBMIT SOILS REPORT FOR REVIEW AND APPROVAL. SOIL TESTING SHALL BE PERFORMED BY AN AGRICULTURE-BASED LAB, WITH DETAILED, WRITTEN RECOMMENDATIONS FOR SOIL AMENDMENTS AND FERTILIZERS SPECIFIC TO ORNAMENTAL LANDSCAPE PLANTS AND TURF.

1.7 PRODUCT DELIVERY, HANDLING AND STORAGE

A. ALL MATERIALS SHALL BE DELIVERED BEARING NURSERY LABEL WITH BOTANICAL, COMMON NAMES, INCLUDING CULTIVARS.

B. CAREFULLY HANDLE PLANT MATERIAL TO ENSURE THAT LIMBS ARE NOT BROKEN DURING THE PLANTING OR STORAGE OF THE MATERIAL.

C. STORE PLANT MATERIAL IN A COVERED AREA ON-SITE, PROTECTED FROM INCLEMENT OR HOT WEATHER ON-SITE. KEEP ROOT BALLS MOIST BY FREQUENT WATERING (DURING HOT WEATHER) OF ALL ACCEPTED STOCK UNTIL SUCH TIME AS PLANTING OCCURS.

1.8 INSPECTION OF PLANT MATERIAL

A. NOTIFY THE PROJECT MANAGER A MINIMUM OF 48 HOURS PRIOR TO DATE OF DELIVERY. ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AT THE TIME OF DELIVERY. A SAMPLE NUMBER OF PLANTS WILL BE INSPECTED FOR THE FOLLOWING ITEMS:

IF THE SAMPLE....	THEN THE PLANT SHALL BE...
IS HEALTHY, SHAPELY AND WELL ROOTED	ACCEPTED.
BEARS A STRONG CENTRAL LEADER	ACCEPTED.
IS WILTED, WIND-BLOWN OR SUNBURNED	REJECTED.
IS ROOT-BOUND, RESTRICTED OR DEFORMED	REJECTED.
DOES NOT BEAR A STRONG CENTRAL LEADER OR HAS BEEN SEVERELY PRUNED BACK	REJECTED.

B. STOCK TO BE CONSISTENT WITH CALFIRE NURSERY/TREE QUALITY CUE CARD AND ROOT MANAGEMENT CUE CARD.

C. BASED ON THE SAMPLE INSPECTION, THE PROJECT MANAGER OR INSPECTOR RESERVES THE RIGHT TO REJECT ANY OR ALL OF THE PLANT MATERIAL DELIVERED. ALL REJECTED PLANT MATERIAL SHALL BE IMMEDIATELY DISPOSED OF OFF-SITE.

1.9 RECORD DRAWINGS

A. THE CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF THE AS-BUILT CONDITIONS OF THE LANDSCAPING. THESE RECORDS SHALL BE UPDATED DAILY AND KEPT AT THE CONSTRUCTION SITE. AT ANY TIME, THE INSPECTOR MAY EXAMINE THE CONDITIONS OF THE "AS-BUILTS" TO ENSURE COMPLIANCE OF THE ABOVE.

PART 2 - PRODUCTS

2.01 PLANTS

A. THE MATERIAL TO BE PLANTED SHALL CONFORM TO THAT INDICATED ON THE PLANS, UNLESS OTHERWISE ACCEPTED. THE QUANTITY SHOWN ON THE PLANS IS APPROXIMATE AND IS FURNISHED FOR CONVENIENCE ONLY. VERIFY ALL QUANTITIES PRIOR TO ORDERING PLANT MATERIAL.

2.2 SOIL AMENDMENT

A. AS RECOMMENDED BY SOILS TEST.

2.3 MULCH

A. REGULAR "WALK-ON" FIR BARK AS MANUFACTURED BY REDI-GRO CORPORATION, SACRAMENTO, CA (916) 381-6063, MALLARD CREEK, INC, ROCKLIN, CA (916) 645-1681, MY BARK COMPANY, INC., LINDEN, CA (209) 649-4250 OR ACCEPTED EQUAL.

B. 1" BELMONT GOLD GRAVEL BY EARTH STONE ROCK. VISALIA MATERIALS YARD. 30617 HIGHWAY 99, VISALIA, CA. (800) 215-7372 OR ACCEPTED EQUAL.

2.4 TOPSOIL

A. STOCKPILED, ON-SITE MATERIAL.

B. IMPORTED TOPSOIL SHALL BE NATURAL, FRIABLE, WELL-DRAINING, FREE FROM ADMIXTURE OF SUBSOIL AND FOREIGN OBJECTS LARGER THAN ONE INCH (1") IN DIAMETER, FREE FROM TOXINS OR ANY OTHER HARMFUL SUBSTANCE WHICH MAY DETER HEALTHY PLANT GROWTH.

C. PERFORM A SOILS TEST FOR ALL IMPORTED SOIL. SOIL TEST SHALL COMPLY WITH SECTION 1.06. SUBMIT SOILS REPORT FOR REVIEW AND APPROVAL PRIOR TO IMPORT ACTIVITIES.

2.5 PRE- AND POST- EMERGENT HERBICIDE

A. CLEAN, AND NON-STAINING. CONSULT WITH A PESTICIDE SPECIALIST.

PART 3 - EXECUTION

3.1 SITE PREPARATIONS

A. PRIOR TO START OF LANDSCAPING WORK, REVIEW THE SITE CONDITIONS TO VERIFY THAT FINAL GRADES HAVE BEEN ESTABLISHED, PLANT/TURF BEDS ARE WEED FREE, AND THE IRRIGATION SYSTEM IS OPERATIONAL AS SHOWN ON THE PLANS AND AS INDICATED IN THE SPECIFICATIONS.

B. FOR LANDSCAPING WITHIN ALL STREET RIGHT-OF-WAYS, CONDUCT A SOILS ANALYSIS TEST OF THE EXISTING SOILS AND REMOVE ALL LIME-TREATED SOILS, AGGREGATE BASE OR OTHER NON-ORGANIC MATERIAL TO A MINIMUM DEPTH OF TWO FEET BEFORE PLANTING OR IRRIGATION INSTALLATION. IMPORT TOPSOIL TO BRING THE FINISH GRADE TO SPECIFIED GRADES. SUBMIT THE SOILS ANALYSIS TEST RESULTS OF THE IMPORTED MATERIAL PRIOR TO IMPORT.

C. NOTIFY THE INSPECTOR IMMEDIATELY OF ANY EXISTING CONDITIONS WHICH ARE UNACCEPTABLE FOR THE COMMENCEMENT OF LANDSCAPING WORK.

3.2 COORDINATION OF WORK

A. COORDINATE ALL WORK WITH OTHER TRADES.

3.3 PREPARATION OF PLANTING AREAS

A. UPON COMPLETION OF GRADING AND UNDERGROUND ACTIVITY, CONTRACTOR SHALL OBTAIN A SOILS TEST AS OUTLINED IN 1.06.

B. PLACE STOCKPILED TOPSOIL IN ALL AREAS TO RECEIVE PLANTING OR TURF TO A MINIMUM DEPTH OF TWELVE INCHES (12").

C. RIP TOPSOIL SURFACE IN TWO DIRECTIONS TO A MINIMUM DEPTH OF TWELVE INCHES (12").

D. SPREAD SOIL AMENDMENTS AT THE RATES INDICATED IN THE SOILS REPORT.

E. ROTOTILL AMENDMENTS TO RECOMMENDED DEPTHS. TILL AMENDMENTS TO A DEPTH OF 6" OR AS RECOMMENDED BY SOILS REPORT.

F. REMOVE ALL ROCK AND DEBRIS WHICH ARE GREATER THAN ½ INCH IN AREAS TO BE TURFED AND ONE INCH (1") IN AREAS TO BE PLANTED.

G. ALL PLANTED AND TURF AREAS TO BE SMOOTH AND UNIFORM IN GRADE AS SHOWN ON THE PLANS.

H. PLANTING AREAS TO BE SLOPED TO DRAIN AS SHOWN ON THE PLANS.

3.4 STORAGE OF PLANTS

A. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND STORAGE. ADEQUATELY PROTECT PLANTS FROM DRYING OUT, EXPOSURE OF ROOTS TO SUN, WIND OR EXTREMES OF HEAT AND COLD TEMPERATURES. IF PLANTING IS DELAYED MORE THAN 24 HOURS AFTER DELIVERY, SET PLANTS IN A LOCATION PROTECTED FROM SUN AND WIND. PROVIDE ADEQUATE WATER TO THE ROOT BALL PACKAGE DURING THE SHIPPING AND STORAGE PERIOD, INCLUDING WEEKENDS AND HOLIDAYS.

B. SOIL MOISTURE SHALL BE MAINTAINED ABOVE WILTING POINT AND BELOW FIELD CAPACITY FOR THE ROOT BALL SUBSTRATE OR SOIL.

C. ALL PLANT MATERIALS MUST BE AVAILABLE FOR OBSERVATION PRIOR TO PLANTING. ANY PLANTS DETERMINED TO DAMAGED OR DISTRESSED DUE TO IMPROPER WATERING MAY BE REJECTED BY INSPECTOR AND SHALL BE REPLACED AT NO COST TO CITY.

3.5 PLANT INSTALLATION

A. SHRUB PLANTING

A.1. REMOVE ONLY THOSE PLANTS WHICH WILL BE PLANTED THE SAME DAY. PLACE SUCH PLANTS IN THE PROPOSED LOCATIONS FOR REVIEW AND ACCEPTED BY THE CITY PRIOR TO ACTUAL PLANTING. NOTIFY THE INSPECTOR A MINIMUM OF 48 HOURS PRIOR TO DAY OF PLANTING.

A.2. DIG PLANTING PITS AS SHOWN ON THE PLANS AND AS SHOWN IN THE PARKS CONSTRUCTION STANDARDS. SCARIFY THE SIDES AND BOTTOM OF PIT TO PREVENT GLAZING. FILL PIT COMPLETELY WITH WATER AND ALLOW THE WATER TO COMPLETELY DRAIN FROM THE PIT PRIOR TO ACTUAL PLANTING.

A.3. RELOCATE ANY PLANTINGS TALLER THAN 6" IN HEIGHT THAT FALL IN FRONT OF ANY IRRIGATION HEAD IN ORDER TO ENSURE PROPER COVERAGE OF THE IRRIGATION SYSTEM.

A.4. FOR PITS THAT RETAIN WATER, COMPLETELY PENETRATE THE HARDPAN LAYER AT THE BOTTOM OF THE PIT AND BACKFILL WITH TOPSOIL. FILL PIT WITH WATER TO TEST AND ENSURE PROPER DRAINAGE.

A.5. PLANTS SHALL BE REMOVED FROM THEIR CONTAINERS ONLY AT THE TIME OF PLACEMENT WITHIN THE PLANT PIT. PERFORM ROOT PRUNING ON ALL FOUR SIDES OF THE ROOT BALL BY SHAVING AND CUTTING AWAY THE ROOT BALL PERIPHERY TO REDUCE THE AMOUNT OF CIRCLING ROOTS. STARTING FROM THE TOP AND THEN CUTTING/SLICING DOWN TO THE BOTTOM OF THE ROOT BALL. ON A 15 GAL CONTAINER AT LEAST 1-1.5 INCHES OF THE ROOT BALL'S PERIPHERY NEEDS TO BE REMOVED BY SLICING OR SHAVING. A SHARP HAND PRUNING SAW NEEDS TO BE USED FOR THE SLICING OR SHAVING OF THE ROOT BALL. REFER TO THE CALFIRE "ROOT MANAGEMENT" CUE CARD CONTAINED IN SECTION 5 OF THESE STANDARDS. THIS PROCESS WILL REMOVE MANY GIRDLING AND CIRCLING ROOTS DEFLECTED BY THE CONTAINER WALL AND ALLOWS FOR ROOT PENETRATION WITHIN THE PLANTING BASIN. SPREAD ALL ROOTS TO THE SIDE TO ALLOW PROPER ROOT DEVELOPMENT. ADD NATIVE BACKFILL AND AMENDMENTS AS SHOWN IN THE PARKS CONSTRUCTION STANDARDS AND AS RECOMMENDED BY THE SOILS TESTING LABORATORY.

A.6. CAREFULLY PLACE PLANT INTO THE PLANT PIT WITHOUT DAMAGING THE ROOT BALL. WATER THE BACKFILL UNTIL SATURATED.

B. GROUNDCOVER PLANTING

B.1. PLACE GROUNDCOVER PLANTS IN NEAT, STRAIGHT, AND PARALLEL ROWS, TRIANGULARLY SPACED AS SHOWN ON THE PLANS AND AS INDICATED HEREIN.

B.2. START THE FIRST ROW OF PLANTING ONE-HALF THE DISTANCE REQUIRED PER PLAN FROM THE EDGE OF THE ADJACENT HARDSCAPE, MOWBAND OR HEADER BOARD.

B.3. GROUNDCOVER SHALL BE INSTALLED TO THE OUTSIDE EDGE OF THE WATER BASINS OF TREES OR SHRUBS.

3.6 MULCH

A. PRIOR TO PLACING MULCH, APPLY POST-EMERGENT HERBICIDE TO ANY WEEDS PRESENT, PER LABEL DIRECTIONS.

B. PRIOR TO PLACING MULCH, APPLY PRE-EMERGENT HERBICIDE IN ALL PLANTING AREAS, PER LABEL DIRECTIONS.

C. APPLY THREE INCHES (3") OF MULCH IN ALL LANDSCAPE PLANTER AREAS.

D. KEEP MULCH A MINIMUM OF THREE INCHES (3") AWAY FROM THE TRUNKS OF ALL WOODY SHRUBS. TAPER MULCH PROFILE AWAY FROM THIS POINT TO PREVENT SUBSEQUENT COLLECTION OF MULCH AGAINST TRUNKS.

3.7 WATERING

E. UPON COMPLETION OF EACH PLANTING OR TURF AREA, IRRIGATE APPROPRIATELY TO ENSURE PROPER HEALTH AND GROWTH.

F. CONTINUALLY ADJUST THE IRRIGATION FOR PLANT NEEDS REGARDLESS OF AIR TEMPERATURE.

3.8 CLEAN-UP

A. UPON COMPLETION OF PLANTING OPERATIONS, COLLECT AND REMOVE FROM SITE ALL EMPTY PLANT CONTAINERS, DEBRIS, RUBBISH AND OTHER TRASH.

B. SWEEP CLEAN AND WASH ALL HARDSCAPE AREAS.

C. CLEAN UP SHALL OCCUR, AT MINIMUM OF ONCE A WEEK, AT THE END OF THE WORK WEEK.

D. MAINTAIN THE ENTIRE SITE IN A CLEAN CONDITION TO THE SATISFACTION OF THE CITY.

3.9 PRE-FINAL (PUNCH LIST) REVIEW

A. SEE SECTION 011000 1.16 OF THE SUMMARY OF WORK FOR NOTIFICATION PROCESS.

3.10 ESTABLISHMENT PERIOD

A. THE ESTABLISHMENT PERIOD SHALL NOT COMMENCE UNTIL:

A.1. FOR STREETSCAPES:

A.1.1. SHALL BE A MINIMUM OF THIRTY (30) CALENDAR DAYS OR UNTIL FINAL ACCEPTANCE OF ALL RELATED STREET IMPROVEMENTS SUBJECT TO APPROVAL OF A CERTIFICATE OF COMPLETION BY THE CITY COUNCIL

B. PRIOR TO THE START OF THE FINAL THIRTY (30) DAYS OF ESTABLISHMENT:

B.1. ALL PUNCH LIST ITEMS AND PLANT REPLACEMENTS SHALL BE COMPLETED.

B.2. ALL CERTIFICATIONS AND TESTING SHALL BE COMPLETED.

B.3. ALL PLANTINGS SHALL BE THRIVING AND IN A HEALTHY CONDITION.

B.4. THE LACK OF ACTIVE MAINTENANCE PRIOR TO THE FINAL THIRTY (30) DAYS MAY CONSTITUTE A DELAY IN THE START OF THE FINAL THIRTY (30) DAYS OF THE ESTABLISHMENT PERIOD.

B.5. ALL AREAS WITHIN THE PROJECT SITE SHALL BE PROTECTED AGAINST DAMAGE INCLUDING VANDALISM, EROSION, TRESPASS, RODENTS AND OTHER ACTS. IMMEDIATELY REPAIR ALL DAMAGED AREAS.

B.6. ALL WALKWAYS AND PAVED AREAS SHALL BE KEPT CLEAN AND ALL DEBRIS WITHIN PLANTING AND TURF AREAS SHALL BE IMMEDIATELY REMOVED.

B.7. IMMEDIATELY REPLACE ALL DEAD PLANTS.

B.8. RE-SEED ALL BARE AREAS WITHIN THE TURF AS SOON AS EVIDENT.

B.9. AS NECESSARY, RAISE ALL TREES AND SHRUBS WHICH HAVE SUNK WITHIN THE PLANT PIT BEYOND THE LEVELS INDICATED IN THE STANDARD DETAILS.

B.10. KEEP ALL AREAS FREE OF WEEDS.

B.11. FOR TREES LOCATED IN TURF AREAS, MAINTAIN A CIRCLE FREE OF TURF AT A DISTANCE DESCRIBED IN THE STANDARD DETAILS

3.11 FINAL REVIEW

C. THE INSPECTOR SHALL REVIEW THE SITE FOR COMPLETION OF ITEMS NOTED, BUT NOT LIMITED TO, "B" BELOW. ALL CORRECTIVE ACTION IS REQUIRED TO ENTER INTO THE FINAL THIRTY (30) DAYS OF ESTABLISHMENT.

D. THE SITE SHALL BE PREPARED FOR REVIEW, BY ENSURING THAT:

D.1. ALL SPRAY HEADS HAVE BEEN PROPERLY ADJUSTED,

D.2. DEAD PLANTS HAVE BEEN REPLACED,

D.3. PLANTING AREAS HAVE BEEN WEEDED,

D.4. WALKWAYS AND PAVED AREAS HAVE BEEN SWEPT AND WASHED, AND

E. FAILURE TO COMPLETE ANY ONE OR ALL OF THE ABOVE ITEMS MAY CONSTITUTE NON-PERFORMANCE OF THE FINAL REVIEW AND WILL REQUIRE RE-SCHEDULING. IN THIS CASE, THE COST OF THE EXTENDED ESTABLISHMENT PERIOD SHALL BE AT NO ADDITIONAL COST TO THE CITY

PART 4 - GUARANTEE

4.1 GENERAL

A. CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE COVERING ALL PLANT MATERIALS (TREES & SHRUBS) FURNISHED BY HIM TO BE FREE OF ALL DEFECTS OR DISEASE AND THAT ALL PLANTS ARE IN A HEALTHY AND THRIVING CONDITION AT THE COMPLETION OF THE CONTRACT. DECIDUOUS PLANT MATERIAL SHALL BE WARRANTED BEYOND THE TIME OF CONTRACT COMPLETION UNTIL SUCH TIME AS GROWTH BECOMES EVIDENT.

FOR ALL STREETSCAPES, STREET LANDSCAPE FRONTAGE, STREET MEDIANS AND LIGHTING & LANDSCAPE DISTRICT PROJECTS.

B. ALL PLANTS, EXCEPT THOSE PROVIDED BY THE CITY, SHALL BE WARRANTED FOR A PERIOD OF NINE (9) MONTHS, MINIMUM, COMMENCING ON THE DATE OF FINAL ACCEPTANCE. WARRANTEE RESPONSIBILITIES EXPIRE UPON ACCEPTANCE AND APPROVAL OF THE "CERTIFICATE OF COMPLETION" FOR THE OVERALL DEVELOPMENT PROJECT. THE WARRANTEE SHALL BE AS OUTLINED IN SECTION 011000: SUMMARY OF WORK, PARAGRAPH 1.19.

-END OF SECTION-

A.P.N. 017-162-005

BENCHMARK NO.: CITY OF ROSEVILLE BM 135 ELEV.: 124.455

3-1/4" BRASS DISK STAMPED SEPTEMBER 2004 LS 7321 LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD APPROXIMATELY 1300 FEET EAST OF THE CENTERLINE OF FIDDYMENT RD., 4 FEET SOUTH OF THE CENTERLINE OF THE BUS TURNOUR IN FRONT OF THE BUS SHELTER PAD.

City of Roseville Approval

REVISION			AGENCY APPROVAL		
NO.	DATE		BY	DATE	

HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: N/A
JOB NO. 19-106

DRAWN BY: LD, CB, MJ
CHECKED BY: JJ
PLOT DATE: 11/3/2020

SCHMIDT DESIGN GROUP
1310 Rosecrans St., Suite G, San Diego, CA 92106
619.236.0442
LIC. CA 2138 | NV 799 | AZ 34189
cpsantos@sdgla.com

IMPROVEMENT PLANS FOR:
ROSEVILLE FIDDYMENT SUBSTATION
6821 FIDDYMENT ROAD
ROSEVILLE, CA 95747

PLANTING SPECIFICATIONS

SHEET NO.
LS-3.3

Sunland Analytical

11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

Date Reported 07/22/2020
Date Submitted 07/16/2020

To: Lindsay DeCeault
Schmidt Design Group
1310 Rosecrans St. Suite G
San Diego, CA 92106

From: Gene Oliphant, Ph.D. \ Randy Horney
General Manager \ Lab Manager

The reported analysis was requested for the following:
Location : FIDDYMENT SUBTATION Site ID : STREET FRONTAGE.
Thank you for your business.

* For future reference to this analysis please use SUN # 82569-172448.

SOIL ANALYSIS

Saturation Percent (SP)	52		Soil Texture Clay Loam
pH	6.19		
E.C.	0.42	mmho/cm	
Tot.Dissolved Salts	268.8	ppm	
Infiltration Rate (0% Slope)	0.25	in/hr	
% Organic Matter	7.1		
C.E.C.	18.9	meq/100g	
Sodium Absorption Ratio (SAR)	1.7		
Exchangable Sodium Percent (ESP)	1.2		
Gypsum Req. (CaSO4*2H2O)	None Required		
est. Nitrogen Release	2.2	#/1000 sq.ft.	

Nitrate	17.85	ppm	*********
Phosphorus	14.88	ppm	**********
Potassium	87.86	ppm	**********
Sulfur	19.47	ppm	**********
Chloride	8.02	ppm	********
Carbonates	66.20	ppm	**********
Sodium	53.17	ppm	
Calcium	2816.40	ppm	**********
Magnesium	533.94	ppm	**********
Boron	0.26	ppm	*******
Copper	1.86	ppm	**********
Iron	182.35	ppm	**********
Manganese	37.34	ppm	**********
Zinc	5.75	ppm	**********

Very Low	Low	Adequate	Excessive

Sunland Analytical
11419 Sunrise Gold Circle, #10
Rancho Cordova, CA 95742
(916) 852-8557

DATE 07/22/2020
SUN NUMBER 172448

Information requested by:
Lindsay DeCeault
Schmidt Design Group

Information for:
FIDDYMENT SUBTATION
Sample ID: STREET FRONTAGE

SOIL RECOMMENDATIONS FOR LANDSCAPE GARDENING

SOIL pH (Acidity and Alkalinity)

The pH of this sample indicates the soil is moderately acid and should be modified for non acid-tolerant plants. Apply 25 pounds of Lime per 1000 sq.ft. and work into ground before planting.

DISSOLVED SALTS (Indicated by E.C. & TDS)

These conditions are in the normal range for plant growth.

SOIL TEXTURE AND RATE OF WATER INFILTRATION

The infiltration rate for all soil textures decreases with increasing ground slope. At 0 to 4%, 5 to 8%, 9 to 12%, 13 to 16% and above 16% the infiltration rate of this sample decreases from 0.25 to 0.20, 0.15, 0.10, 0.06, respectively. Infiltration rate also decreases with percent of ground cover and by compaction.

WATER PENETRATION OF SOIL DUE TO CHEMICAL CHARACTERISTICS

When exchangable Sodium increases in the soil, water penetration decreases. Based on SAR and ESP values this sample has no penetration problem due to soil Sodium. No Gypsum required.

ORGANIC MATTER

Organic matter provides a slow nitrogen release and aids water retention. This sample has a moderate Organic Matter content.
To maintain moisture and provide sustained nitrogen release a level of 10% organic matter is recommended. This can be accomplished by adding 1 yards per 1000 sq.ft. of ground fir bark that is approximately 75% organic matter (i.e. typically found in ground fir bark which also has naturally low salt and boron concentrations). In California, the MWELO ordenance requires a fixed application of four yards of COMPOST if the soil organic matter is less than 6%. However, of significant concern when applying COMPOST is the potential for the compost to have high salt, high boron content, high C to N ratio and having a higly variable pH (very high to very low). All of these COMPOST characteristics can have very negative affect on plant growth. Take care by having the compost analyzed or by seeing a recent analysis of the compost to be used.

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SOIL RECOMMENDATIONS FOR LANDSCAPE GARDENING

SOIL BORON

Boron concenrations are in a range allowing normal plant growth.

SOIL MICRONUTRIENTS

Micronutrients, Copper, Iron, Manganese and Zinc, in soil are present in small amounts. However, they play a necessary role in plant metabolism. Without appropriate amounts plants will not thrive. Soil has adequate amounts - no application needed.

SOIL MACRONUTRIENTS : NITROGEN-PHOSPHORUS-POTASSIUM (N-P-K)

GENERAL N-P-K RECOMMENDATION

Use ONE of these NPK preparations for the first fertilizer application.

Standard NPK Fertilizer Preparations	6-20-20	5-20-10	16-16-16	0-10-10	28-3-4	21-0-0	Customer Choice None
#/1000 sq.ft.	8	9	N/A	N/A	N/A	N/A	**

GRASS OR SOD PREPARATION

Till in organic matter, N,P,K and micro nutrients in addition to any lime gypsum or sulfur as directed above. Smooth soil surface and follow seed or sod producers direction for moisture and product application.

TREES AND SHRUBS

Excavate holes for planting shrubs and trees to at least twice the volume of the container. Prepare backfill for tree and shrub planting holes by mixing three parts of native soil (or imported top soil) with one part organic amendment (preferably nitrogen and iron fortified) and 2.5 pounds of 6-20-20 per yard of mix. For extended fertilization, place slow release fertilizer tablets in each hole per manufacturer's instructions. If 6-20-20 was not directly added to backfill mix, during backfill apply uniformly 1/2 oz of 6-20-20 per gallon containers, 2.5 oz per 5 gallons, 6 oz per 24 inch boxes.

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Information for:
FIDDYMENT SUBTATION
Sample ID: STREET FRONTAGE

SOIL RECOMMENDATIONS FOR LANDSCAPE GARDENING

Summary and Suggested Sequence of Soil Improvements (#/1000 Sq.Ft.)

Lime	25	#
Organic Amendment	1	Yd./1000 Sq.Ft. Bulk organic amendment (nitrified). or in Calif. if Org.Mat. less than 6% use 4 yd compost.
N-P-K Fertilizer	See above chart	

Maintenance Fertilization

Apply 5 pounds of Ammonium sulfate (21-0-0) per 1000 sq.ft.every month until plants become established. After established, apply 28-3-4 (or similar preparation) to provide desired growth rate and color.

SUNLAND ANALYTICAL LAB
11419 Sunrise Gold Cr., Ste.10
Rancho Cordova, CA 95742
(916)852-8557

INVOICE

Inv.No. 102569

Schmidt Design Group
1310 Rosecrans St. Suite G
San Diego, CA 92106

ATTENTION ACCOUNTS PAYABLE

Date 07/22/2020
Terms: NET 30, 30+ 15%
Customer P.O.#
Requestor: DeCeault
* Please indicate Invo.# on remittance

SUN NOS.	SAMPLE LOCATION	ANALYSIS	PRICE
172448	FIDDYMENT SUBTATION STREET FRONTAGE	LTP.4	102.00
	********* Total *********		102.00

Erosivity Waiver – Erosion and Sediment Control Plan

Fiddyment Substation Landscaping

Small Construction Rainfall Erosivity Waiver

WDID#: TBD

Property Address: 6821 Fiddyment Road, Roseville, California

Estimated Construction Project Dates:

Start of Construction	June 1, 2021
Completion of Construction	October 30, 2021

Qualified SWPPP Practitioner (QSP)

Jacob Callahan, Project Manager, and QSP# 26718
Jacobson James & Associates
(530) 305-1457

Construction Project Manager:
Chris Porter
(916) 774-5615

Prepared for

Roseville Electric
311 Vernon Street
Roseville, California 95678

Prepared by

Michael Clegg, Senior Engineer, QSD# 26094

9083 Foothills Boulevard, Suite 370
Roseville, California 95747
Tel: (916) 367-5111 ext. 149

Date: April 8, 2021

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Appendices

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Appendix B: **Applicable Permit Registration Documents (PRDs)**

Notice of Intent (NOI)

WDID Receipt Letter

Risk Determination Documentation

Appendix C: **Amendment Certifications**

Appendix D: **Construction Activities, Materials Used, and Associated Pollutants**

Appendix E: **Example Forms**

Inspection Form and BMP Checklist

Training Form

Appendix F: **Contractors and Subcontractors**

Appendix G: **BMP Fact Sheets**

Appendix H: **Training Documentation**

Appendix I: **Completed Forms**

Qualified Small Construction Rainfall Erosivity Waiver Developer Certification

Approval and Certification of the Waiver Site Specific Erosion Control Plan

Project Name: **Fiddyment Substation Landscaping**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

	04/05/2021
QSD Signature	Date
Michael Clegg	26094
QSD Name	QSD Certificate Number
Senior Engineer	(916) 202-6699
Title and Affiliation	Telephone Number
mclegg@jacobsonjames.com	
Email Address	

Amendment Log

Project Name: **Fiddyment Substation Landscaping**

Amendment No.	Date	Amendment Description

Section 1 Waiver Requirements

1.1 Introduction

The Fiddyment Substation Landscaping (Project) is located at 6821 Fiddyment Road, Roseville, California. The property involved is publicly owned. The construction activities are being undertaken by Roseville Electric to landscape surrounding grounds adjacent to substation.

This Small Construction Rainfall Erosivity Waiver project is designed to address the following objectives:

- The period of construction activity begins at initial earth disturbance and ends with final stabilization. Where vegetation will be used for final stabilization, the date of installation of a practice that provides interim non-vegetative stabilization can be used for the end of the construction period.
- Control all pollutants and their sources, including sources of sediment associated with construction, construction site erosion and all other activities associated with construction activity;
- Identify and control, eliminate, or treat all non-stormwater discharges where not otherwise required to be under a Regional Water Quality Control Board (Regional Water Board) permit; and
- Site BMPs are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity to the Best Available Technology Economically Achievable/Best Conventional Pollutant Control Technology (BAT/BCT) standard.

1.2 Permit Registration Documents

This project meets the criteria for a CGP Small Construction Erosivity Waiver and in accordance with the Construction General Permit Coverage, an electronic Notice of Intent (NOI) and Sediment Risk form shall be prepared and submitted through the State Water Board's SMARTS system, certifying that the construction activity will take place during a period when the value of the erosivity is less than five (5).

This Small Construction Rainfall Erosivity Waiver was prepared in general accordance with permit requirements. Required Permit Registration Documents (PRDs) will be prepared in accordance with Small Construction Rainfall Erosivity Waiver. The project-specific Waiver PRDs include:

- Notice of Intent (NOI);
- Erosivity Factor Assessment;
- Site Maps; and
- Signed Certification Statement.

Site Maps are located in Appendix A. A copy of the applicable PRDs, including the NOI, Erosivity Factor Assessment Documentation, and Waste Discharge Identification (WDID) Receipt Letter are available in Appendix B.

1.3 Small Construction Rainfall Erosivity WaiverSmall Construction Rainfall Erosivity Waiver Availability and Implementation

The Small Construction Rainfall Erosivity Waiver shall be available at the construction site during working hours while construction is occurring and shall be made available upon request by a State or Municipal inspector. When the Small Construction Rainfall Erosivity Waiver is retained by a crewmember and is not currently at the construction site, current copies of the BMPs and map/drawing will be left with the field crew and the Small Construction Rainfall Erosivity Waiver shall be made available via a request by radio/telephone.

The Small Construction Rainfall Erosivity Waiver shall be implemented concurrently with the start of ground disturbing activities.

1.4 Small Construction Rainfall Erosivity Waiver Amendments

The Small Construction Rainfall Erosivity Waiver should be revised when:

- There is an increase in total disturbed acreage greater than five (five) acres;
- BMPs do not meet the objectives of reducing or eliminating pollutants in stormwater discharges;
- There is a change in construction or operations which may affect the discharge of pollutants to surface waters, groundwater(s), or municipal separate storm sewer system (MS4);
- There is a change in the project duration; or
- Deemed necessary by the QSD.

Each amendment must include the date, a description of the change(s) and the QSD's signature. Amendments shall be recorded in the Amendment Log near the front of the Small Construction Rainfall Erosivity Waiver. The Small Construction Rainfall Erosivity Waiver text and/or figures shall be revised, replaced, inserted, and/or hand annotated as necessary to properly convey the amendment. Small Construction Rainfall Erosivity Waiver amendments must be made by or at the direction of a QSD. The QSP, LRP, Contractor, or appropriate field personnel shall notify the QSD when an amendment or revision is needed.

1.5 Annual Report

Because this is project meets the criteria for a Small Construction Rainfall Erosivity Waiver under the CGP, an annual report is not required.

1.6 Changes to Permit Coverage

The General Permit provides the option for projects with total acreage greater than one (>1) and less than five (<5) acres to obtain coverage under the Small Construction Rainfall Erosivity Waiver

when the rainfall erosivity factor (R) is less than five (5). Should the project duration extend beyond the projected completion date, the rainfall erosivity factor (R) for the new project duration shall be recalculated. If the new R factor is below five (5), the SMARTs inputs will be updated and retained with the Small Construction Rainfall Erosivity Waiver onsite. The new waiver certification shall be submitted 30 days prior to the projected completion date listed in the original waiver. If the new R factor is five (5) or above, a new application for permit coverage will be prepared and submitted through SMARTS. As a condition of the waiver eligibility, the discharge must periodically inspect and properly maintain the disturbed area until the criteria for final stabilization as defined in the CGP have been met.

If a change in disturbed area increases to or above five (5) acres, a new application for permit coverage shall be prepared and submitted through SMARTS within 30 days of the increase. In addition, the Small Construction Rainfall Erosivity Waiver will be modified to conform to CGP SWPPP requirements.

1.7 Notice of Termination

Small Construction Rainfall Erosivity Waiver Projects are exempt from most elements of the CGP provided the final stabilization criteria are met.

1.8 Required Non-Compliance Reporting

If a General Permit discharge violation occurs (including un-authorized non-stormwater discharges) or if the project receives a written Notice of Violation (NOV) or order from a regulatory agency, the contractor will immediately notify the QSP, Project Manager and the Legally Responsible Person (LRP). The contractor will provide a written report to the QSP (Section 6.1) within 24 hours. The QSP will then prepare a written report within 7 days of occurrence, or as specified.

If a Notice of Non-Compliance is necessary, it will be submitted by the LRP. If planned changes in construction activity will result in non-compliance with the CGP, the discharger is required to give advance notice to the (Regional Water Quality Control Board (RWQCB) and local storm water management agency.

The written report will contain the following items:

- The date, time, location, nature of operation, and type of unauthorized discharge, including the cause or nature of the notice or order;
- The control measures (BMPs) deployed before the discharge event, or prior to receiving the notice or order;
- The date of deployment and type of control measures (BMPs) deployed after the discharge event, or after receiving the notice or order, including additional measures installed or planned to reduce or prevent re-occurrence; and
- An implementation and maintenance schedule for any affected BMPs.

Section 2 Project Information

2.1 Project and Site Description

2.1.1 Site Description

The Project comprises approximately 1.95 acres, including 1.95 acres of ground disturbance, and is located in Roseville, in Placer County, California. The project consists of a publicly-owned parcel of land used for landscape adjacent to a substation. The site is bounded by Fiddyment Road to the west, Westhills Drive to the south, Fiddyment Substation to the east and open land with transmission towers to the north.

The project is located at latitude 38.76280, longitude -121.35822 and is identified on the Site Maps in Appendix A. Access to the project site is provided by exiting highway 65 traveling west on Pleasant Grove, then turn south on Fiddyment Road where the substation entrance is approximately 1,500 feet on the left. The nearest water body is 1,900 feet to the southwest Curry Creek, located approximately 1,900 feet to the southwest.

2.1.2 Existing Conditions

As of the initial preparation date of the Small Construction Rainfall Erosivity Waiver, the current ground condition consists of soil and bark coverage. There are no historic sources of contamination listed in the California State GeoTracker database in the vicinity of the project.

2.1.3 Existing Drainage

The area in the vicinity of the Project is fairly flat that slopes south. The elevation of the project ranges from 130 feet to 121 feet above mean sea level (msl). Surface drainage in the vicinity of the substation discharges to the City storm drainage system and eventually outfalls to a Curry Creek tributary and ultimately to the Sacramento River. Stormwater discharges, from the Project, are not considered direct discharges, as defined by the State Water Board. Existing site topography, drainage patterns, and stormwater conveyance systems are shown in Appendix A.

The project discharges to Curry Creek, which in not listed for water quality impairments on the most recent 303(d) list. The Sacramento River has beneficial uses of COLD, SPAWN, and MIGRATORY.

2.1.4 Geology, Groundwater, and Rainfall

The site is underlain primarily by Cometa–Fiddyment complex. The typical profile for this soil type is as follows: well drained, sandy loam from 0 to 18 inches, clay from 18 to 29 inches, and sandy loam from 29 to 60 inches, slopes are typically 1 to 5 percent. Groundwater is expected to be encountered at approximately 80 inches below ground surface and the annual average precipitation at the project site is 25.20 inches. Ponding and flooding is not expected to occur at the project site and the available water capacity of the soil is moderate.

Based on Isopluvial Maps, the 5-year, 24-hour event for the project is 2.86 inches. This information should be considered during the selection and design of related BMPs.

2.1.5 Project Description

The scope includes new landscape and irrigation for the frontage of the Fiddyment Substation along Fiddyment Road.

2.1.6 Developed Condition

Post construction surface drainage will be unchanged from existing conditions. No modification to existing surface drainage features will occur.

Drainage patterns and/or conveyance systems are presented in Appendix A and a summary of drainage information is located in the following table.

Construction Site Estimates

Percent Impervious Before Construction	1.5 %
Runoff Coefficient Before Construction	0.32
Percent Impervious After Construction	1.5 %
Runoff Coefficient After Construction	0.32

Final stabilization will be achieved on the project by meeting the 70% final cover method. Stabilization is expected to be achieved within 30 days of completion of construction activities by matching existing conditions including replacing asphalt, restoring vegetation (if needed), and re-gravelling, as needed.

2.2 Stormwater Run-On from Offsite Areas

There is no anticipated offsite run-on to this construction site because the adjacent roads and residential developments utilize curbs, gutters, and storm drain inlets to capture and possible run-on.

Temporary BMPs are required to be implemented to direct offsite run-on away from all disturbed areas through the use of runoff controls or runoff shall collectively be in compliance with effluent limitations in the General Permit. Although not anticipated, BMPs may be implemented if run-on is observed during a rain event.

Off-site drainage areas, associated stormwater conveyance facilities, and/or run-on control BMPs are shown in Appendix A.

2.3 Construction Site Sediment and Receiving Water Risk Determination

The project meets the criteria for a Small Construction Rainfall Erosivity Waiver. Using the Construction Rainfall Erosivity Factor Calculator the R value is 4.98.

2.4 Construction Schedule

The site erosivity factor shall be determined based on construction taking place between the dates listed on the cover of this Small Construction Rainfall Erosivity Waiver. Modification or extension of the schedule may affect risk determination and permit requirements and therefore project personnel shall contact the QSD regarding any schedule changes.

2.5 Potential Construction Activity and Pollutant Sources

A list of construction activities and associated materials that are anticipated to be used onsite are included in Appendix D. The activities and associated materials will or could potentially contribute pollutants, other than sediment, to stormwater runoff.

The anticipated activities and associated pollutants were used in Section 3 to select the BMPs for the project. The location of pollutants and/or associated BMPs are shown on the Site Map(s) in Appendix A.

Sampling requirements for non-visible pollutants are described in a subsequent section. Additional pollutants and/or more specific products may be onsite. Refer to the Safety Data Sheets (SDS), which shall be retained onsite, likely at the construction trailer.

2.6 Identification of Non-Stormwater Discharges

Non-stormwater discharges consist of discharges which do not originate from precipitation events. The General Permit provides allowance for specified non-stormwater discharges that do not cause erosion or carry other pollutants. Authorized non-stormwater discharges will be managed with the stormwater and non-stormwater BMPs described in Section 3 and/or shown in Appendix A and will be minimized to the extent feasible.

Non-stormwater discharges that may be authorized from this project site include de-chlorinated potable water sources such as:

- Water to Control Dust
- Pipe Flushing and Testing

Non-stormwater discharges into storm drainage systems or waterways, which are not authorized under the General Permit or authorized under a separate NPDES permit, are prohibited. If an unauthorized non-stormwater discharge situation is observed, the QSP will initiate actions, including the implementation of appropriate BMPs, to ensure that unauthorized discharges are eliminated, controlled, disposed, or treated on-site.

Activities at the site that may result in unauthorized non-stormwater discharges include:

- Improper Dumping
- Spills
- Leaks from Tanks, Containers, or Equipment
- Improper Cleaning of Vehicles, Equipment, Impervious Surfaces, etc.
- Improper Use or Application of Construction or Landscape Related Materials

- Inadequate Containment of Potential Pollutants

Discharges of construction materials and wastes, such as fuel or paint, resulting from dumping, spills, or direct contact with rainwater or stormwater runoff, are also prohibited.

2.7 Required Site Map Information

The construction project Site Map(s) showing the project location, surface water boundaries, geographic features, construction site perimeter, general topography, and/or other map requirements are located in Appendix A.

Section 3 Best Management Practices

3.1 Schedule for BMP Implementation

BMPs must be implemented, modified, and maintained to reflect the phase of construction and the weather conditions. In order to be effective, some BMPs must be installed before the site is disturbed and other may require multiple applications or installations. The schedule for deployment of BMPs in identified in Section 3.6.

The following BMP selection tables indicate the BMPs that should be implemented on the construction site; alternate methods may be implemented if effective and approved by the QSP. Fact Sheets/Cut Sheets for BMPs which describe the purpose, application, limitations, implementation, inspection, and maintenance are provided in Appendix G. The QSD shall be contacted in the event of a conflict between the Small Construction Rainfall Erosivity Waiver, the Site Map(s), Fact Sheets or other documents.

3.2 Erosion and Sediment Control

Erosion and sediment controls are required to provide effective reduction or elimination of sediment related pollutants in stormwater discharges and authorized non-stormwater discharges from the site. Applicable BMPs are identified in this section for erosion control, sediment control, tracking, and wind erosion control.

3.2.1 Erosion Control

Erosion control, also referred to as soil stabilization, consists of source control measures that are designed to prevent soil particles from detaching and becoming transported in stormwater runoff. Erosion control BMPs protect the soil surface by covering, binding soil particles, and/or strengthening the subsurface.

This construction project will implement the following practices to provide effective temporary and/or final erosion control during construction:

1. Preserve existing vegetation where required and when feasible.
2. Control the area of soil disturbing operations shall be such that the Contractor is able to implement erosion control BMPs quickly and effectively.
3. Provide effective soil cover for inactive areas. Inactive is defined as areas of construction activity that have been disturbed and are not scheduled to be re-disturbed for at least 14 days.
4. Implement BMPs to prevent the off-site tracking of loose construction and landscape materials.
5. Control erosion in concentrated flow paths by applying erosion control blankets, check dams, erosion control seeding, or alternate effective methods.

6. Apply permanent erosion control to remaining disturbed soil areas prior to the completion construction.
7. Maintain sufficient erosion control materials onsite to allow implementation in conformance with this Small Construction Rainfall Erosivity Waiver and the General Permit.
8. Limit the use of plastic materials when more sustainable, environmentally friendly alternatives exist.

Erosion Control BMPs

Fact Sheet	BMP Name	Project Specific Notes/Instructions
EC-1	Scheduling	Entire project, at all times, limit or stop soil disturbance activities and pollutant use during precipitation.
EC-2	Preservation of Existing Vegetation	Do not disturb vegetation outside the project boundary.
EC-3	Hydraulic Mulch	As needed
EC-5	Soil Binders	As needed
EC-6	Straw Mulch	As needed
EC-7	Geotextiles and Mats	Implement to reduce erosion, stabilize soil, and/or retain moisture for plant growth. Install over prepared surface per manufacturer's recommendations.
EC-15	Soil Preparation/Roughening	During grading
EC-16	Non-Vegetative Stabilization	As needed
WE-1	Wind Erosion Control	Entire site, at all times.

3.2.2 Sediment Controls

Sediment controls are measures that are intended to complement the selected erosion control measures and reduce sediment discharges from active construction areas. Sediment controls are typically temporary but permanent measures also exist. Sediment controls are designed to intercept, filter, and/or settle out soil particles that have been detached and are transported by the force of water.

This construction project will implement the following practices to provide effective sediment control during construction:

1. Establish and maintain effective perimeter controls.
2. Stabilize all construction entrances and exits and ensure that construction traffic to and from the project is limited to the entrances and exits.
3. Ensure that all storm drain inlets and perimeter controls, runoff controls, and pollutant controls are maintained and effective.

Sediment Control BMPs

Fact Sheet	BMP Name	Project Specific Notes/Instructions
SE-4	Check Dams	Upgradient of storm drain along gutter.
SE-5	Fiber Rolls	Around site perimeter where shown on Drawings. Around small stockpiles.
SE-7	Street Sweeping and Vacuuming	All paved surface, as often as necessary to remove accumulated sediment from paved surfaces.
SE-10	Storm Drain Inlet Protection	Storm drain at southern end of project. Prior to construction or immediately after installation

3.3 Non-Stormwater Controls and Waste and Materials Management

3.3.1 Non-Stormwater Controls

Non-stormwater discharges into storm drain systems or waterways, which are not authorized, are prohibited. The selection of non-stormwater BMPs is based on the list of construction activities with a potential for non-stormwater discharges identified in Appendix D.

This construction project will implement the following practices to provide effective non-stormwater management during construction:

1. Prevent oil, grease, or fuel to leak into the ground, storm drains, or surface waters. Clean leaks immediately and dispose of leaked materials properly.
2. Place all equipment or vehicles which are to be fueled, maintained, and stored in a designated area, fitted with appropriate BMPs.
3. Clean streets in such a manner as to prevent unauthorized non-storm water discharges.

Non-Stormwater BMPs

Fact Sheet	BMP Name	Project Specific Notes/Instructions
NS-1	Water Conservation Practices	Entire project at all times.
NS-3	Paving and Grinding Operations	Implement while paving and sawcutting
NS-6	Illicit Connection/Discharge	Illegal dumping is possible on all construction sites
NS-7	Potable Water/Irrigation	Dust control and irrigation
NS-9	Vehicle and Equipment Fueling	Equipment refueling may be performed within laydown yard.
NS-10	Vehicle and Equipment Maintenance	Minor repairs and maintenance may be performed within laydown yard.

3.3.2 Material Management and Waste Management

Material management control practices consist of implementing procedural and structural BMPs for handling, storing, and using construction materials to prevent the release of those materials into stormwater discharges.

Waste management consists of implementing procedural and structural BMPs for handling, storing, and ensuring proper disposal of waste to prevent the release of those wastes into stormwater

discharges. If applicable to the project site, waste management should be conducted in accordance with the Project's Construction Waste Management Plan.

Material and waste management pollution control BMPs shall be implemented to minimize stormwater contact with construction material, waste, and service areas; and to prevent materials and wastes from being discharged off-site. This construction project will implement the following practices to provide effective waste and materials management during construction:

1. Inventory products.
2. Cover and berm loose stockpiled construction materials that are not actively being used. Contain and securely protect stockpiled waste material from wind and rain at all times unless actively being used. Contain stockpiled landscape materials such as mulches and topsoil when they are not actively being used.
3. Store chemicals in watertight containers in appropriate secondary containment to prevent any spillage or leakage or in a completely enclosed storage shed.
4. Minimize exposure of construction material to precipitation.
5. Ensure the containment of concrete washout areas and other washout areas that may contain additional pollutants so that there is no discharge into the underlying soil and onto surrounding areas.
6. Prevent disposal of any rinse or wash waters or materials on impervious or pervious site surface or into the storm drain system.
7. Ensure the containment of sanitation facilities, clean or replace regularly, and inspect for leaks and spills.
8. Cover waste disposal containers at the end of every business day and during a rain event. Prevent discharges from waste disposal containers.
9. Contain fertilizer and other landscape materials when they are not actively being used.
10. Discontinue the application of any erodible landscape material within 2 days before a forecast rain event or during periods of precipitation.
11. Stack erodible landscape material on pallets and cover or store such materials when not being used or applied.
12. Control the air deposition of site materials and from site operations.

Waste and Material Management BMPs

Fact Sheet	BMP Name	Project Specific Notes/Instructions
WM-1	Material Delivery and Storage	Entire project at all times.
WM-2	Material Use	Entire project at all times.
WM-3	Stockpile Management	All Stockpiles
WM-4	Spill Prevention and Control	Entire project at all times.
WM-5	Solid Waste Management	Staging area, at all times
WM-6	Hazardous Waste Management	Staging area, at all times
WM-9	Sanitary-Septic Waste Management	Entire project, at all times, in the laydown yard.
WM-10	Liquid Waste Management	Staging area, at all times

3.3.3 Spill Response and Implementation

Prevention and control of spills minimizes or eliminates the discharge of hazardous and non-hazardous material and waste to the storm drain system or surface waters. All material storage and handling should be located away from natural water courses and storm drains, and should be stored in areas not susceptible to rain if possible.

Employees, contractors, subcontractors, and any other site personnel shall use Good Housekeeping practices at all times and implement other containment controls as a secondary line of defense. Personnel handling any hazardous materials shall be knowledgeable about such materials and shall take proper steps in notifying the appropriate personnel immediately if a spill occurs.

This construction project will implement the following practices to provide effective spill prevention and management during construction:

1. Equipment and materials for cleanup of spills shall be available on site.
2. Spills and leaks shall be cleaned up immediately and disposed properly.
3. Appropriate spill response personnel are to be assigned and trained.
4. If a spill occurs, notify the QSP and other appropriate personnel.

3.4 Post Construction Stormwater Management Measures

Post construction BMPs are permanent measures designed to reduce or eliminate pollutant discharges from the site after construction is complete and are installed during construction. LUPs are not subject to post-construction water balance requirements due to the nature of their construction to return project sites to pre-construction conditions, however, permanent BMPs listed in the following table are anticipated to remain after construction is complete.

Seeded areas are expected to be maintained until final stabilization is achieved. The following post construction BMPs have been identified for this site:

BMP Name	Project Specific Notes/Instructions
Fiber Rolls	Must be biodegradable, not photodegradable
Landscaping	To include grass, shrubs, and trees
Non-Vegetative Stabilization	As required

3.5 BMP Installation Schedule

BMPs shall be installed and maintained during specific phases and timing. The tables below illustrate the schedule for the installation and maintenance schedule for specific BMPs. BMP's shall be installed, maintained, repaired, and/or replaced as necessary during the phase in which they are to be used. Unless BMPs are used for multiple phases or post construction, BMPs shall be removed and properly discarded following the intended phase(s).

Erosion Control BMPs							
BMP No.	**BMP**	**Prior to Land Disturbance**	**Grading and Land Development**	**Streets and Utilities**	**Vertical Construction**	**Landscaping and Site Stabilization**	**Post Construction**
EC-1	Scheduling	✳		✳		✳	✳
EC-2	Preservation of Existing Vegetation	✳		✳			
EC-3	Hydraulic Mulch						
EC-5	Soil Binders						
EC-6	Straw Mulch						
EC-15	Soil Preparation/Roughening						
EC-16	Non-Vegetation Stabilization					✳	✳

Wind Erosion Control BMPs							
BMP No.	**BMP**	**Prior to Land Disturbance**	**Grading and Land Development**	**Streets and Utilities**	**Vertical Construction**	**Landscaping and Site Stabilization**	**Post Construction**
WE-1	Wind Erosion Control		✳	✳	✳	✳	

Sediment Control BMPs							
BMP No.	**BMP**	**Prior to Land Disturbance**	**Grading and Land Development**	**Streets and Utilities**	**Vertical Construction**	**Landscaping and Site Stabilization**	**Post Construction**
SE-4	Check Dams	✳	✳	✳	✳	✳	
SE-5	Fiber Rolls	✳	✳	✳	✳	✳	
SE-7	Street Sweeping and Vacuuming		✳	✳	✳	✳	
SE-10	Storm Drain Inlet Protection	✳	✳	✳	✳	✳	

Tracking Control BMPs							
BMP No.	**BMP**	**Prior to Land Disturbance**	**Grading and Land Development**	**Streets and Utilities**	**Vertical Construction**	**Landscaping and Site Stabilization**	**Post Construction**
TC-1	Stabilized Construction Entrance/Exit		✳	✳	✳	✳	

Non-Stormwater Management BMPs							
BMP No.	**BMP**	**Prior to Land Disturbance**	**Grading and Land Development**	**Streets and Utilities**	**Vertical Construction**	**Landscaping and Site Stabilization**	**Post Construction**
NS-1	Water Conservation Practices		✳	✳	✳	✳	
NS-3	Paving and Grinding Operations		✳	✳	✳	✳	
NS-6	Illicit Connection/Discharge		✳	✳	✳	✳	
NS-7	Potable Water/Irrigation		✳	✳	✳	✳	
NS-9	Vehicle and Equipment Fueling		✳	✳	✳	✳	
NS-10	Vehicle and Equipment Maintenance		✳	✳	✳	✳	

Waste Management and Materials Pollution Control BMPs							
BMP No.	**BMP**	**Prior to Land Disturbance**	**Grading and Land Development**	**Streets and Utilities**	**Vertical Construction**	**Landscaping and Site Stabilization**	**Post Construction**
WM-1	Material Delivery and Storage		✳	✳	✳	✳	
WM-2	Material Use		✳	✳	✳	✳	
WM-3	Stockpile Management		✳	✳	✳	✳	
WM-4	Spill Prevention and Control		✳	✳	✳	✳	
WM-5	Solid Waste Management		✳	✳	✳	✳	
WM-6	Hazardous Waste Management		✳	✳	✳	✳	
WM-9	Sanitary/Septic Waste Management		✳	✳	✳	✳	
WM-10	Liquid Waste Management		✳	✳	✳	✳	

Section 4 BMP Inspection and Maintenance

4.1 BMP Inspection and Maintenance

A BMP inspection form must be completed for each recorded inspection and maintained on-site with the Small Construction Rainfall Erosivity Waiver. A blank inspection checklist can be found in Appendix E. Completed checklists shall be kept in Appendix I or in an accompanying binder.

BMPs shall be maintained regularly to ensure proper and effective functionality. Work to address corrective actions shall begin within 72 hours of identified deficiencies, and be completed as soon as possible. Any associated amendments to the Small Construction Rainfall Erosivity Waiver shall be prepared by a QSD.

Details for maintenance, inspection, and repair of construction site BMPs are located in the BMP Fact Sheets in Appendix G.

Section 5 Training

All persons responsible for implementing requirements of the General Permit shall be appropriately trained. Training should be both formal and informal, occur on an ongoing basis, and should include training offered by recognized governmental agencies or professional organizations. To promote stormwater management awareness specific for this project, periodic training of job site personnel should be included as part of routine project meetings (e.g. daily/weekly tailgate safety meetings), or task specific trainings as needed. The QSP and Contractor can provide stormwater training information at the meetings, and subsequently complete a training log as provided in Appendix E.

The QSP may delegate activities to personnel trained to do the task(s) appropriately but shall ensure adequate performance. The QSP is responsible for ensuring that all persons working on construction related activities on-site have Small Construction Rainfall Erosivity Waiver training. A copy of the training record sign in sheet is filed with the on-site Small Construction Rainfall Erosivity Waiver immediately after the training. In cases where the initial training does not reach all members of the crew, the QSP must ensure additional training is provided. Additional training may be delegated; however, the initial training must be conducted by the QSP. The QSP is also expected to be available to train and assist those individuals conducting daily inspections. The primary and secondary daily unrecorded inspectors must be trained at the same time to ensure that the secondary contact is able to immediately step in, should the primary contact be unavailable.

Retain formal and informal training documentation, including copies of QSD and QSP certificates for designated personnel, in Appendix H.

Section 6 Responsible Parties and Operators

6.1 Responsible Parties

6.1.1 Legally Responsible Person

The Legally Responsible Person (LRP) is the person, company, agency, or other entity that possess a real property interest in the land upon which the construction or land disturbance activities will occur for the regulated site. The LRP's information is listed below.

LRP Name:	Julie Manfredi
Title:	Electric Compliance Analyst
Company:	City of Roseville/Roseville Electric Utility
Address:	2090 Hilltop Circle, Roseville, CA 95747
Phone:	(916) 774-5674

6.1.2 Qualified SWPPP Practitioner

The QSP is the individual assigned responsibility for non-stormwater and stormwater visual observations and responsibility to ensure compliance with the General Permit, implementation of all elements of the Small Construction Rainfall Erosivity Waiver, and elimination of unauthorized discharges. The QSP has primary responsibility and significant authority for General Permit compliance and may delegate activities to appropriately trained personnel for whom he/she ensures adequate performance. The QSP is expected to regularly communicate with their delegated Inspector(s) and all documented inspections performed by a delegate must be reviewed by the QSP. The QSP and Designated Inspector's (if applicable) information is listed below.

QSP Name:	Jacob Callahan
Title:	Project Manager
Company:	Jacobson James & Associates, Inc.
Address:	9083 Foothills Boulevard, Suite 370, Roseville, California 95747
Phone:	(530) 305-1457

Designated Inspector:	Keith Kitts
Title:	City of Roseville QSP (#25954)
Company:	City of Roseville/Roseville Electric Utility
Address:	2090 Hilltop Circle, Roseville, CA 95747
Phone:	(916) 774-5675

6.1.3 Qualified SWPPP Developer

The QSD is the individual who is authorized to develop and revise the Small Construction Rainfall Erosivity Waiver. The QSD should be contacted regarding questions or concerns with this document. The QSD's information is listed below.

QSD Name:	Michael Clegg
Title:	Senior Engineer
Company:	Jacobson James & Associates, Inc.
Address:	9083 Foothills Boulevard, Suite 370, Roseville, California 95747
Phone:	916-202-6699

6.1.4 Other Significant Responsible Parties

Project Role	**Name**	**Company**	**Phone**
Project Manager	Chris Porter	Roseville Electric	(916) 774-5615

6.2 Contractor and Subcontractors

All contractors, subcontractors, and individuals who will be directed by the QSP shall be listed in Appendix F. Contractor and Subcontractor information shall include telephone numbers, work addresses, areas of responsibility, and emergency contact numbers. The list shall be updated as contractors, subcontractors, and individuals change.

Section 7 Monitoring and Reporting Program

7.1 Purpose

This Monitoring and Reporting Program (M&RP) was developed to address the following objectives:

- Implement the M&RP at the start of construction.
- Implement the M&RP at the appropriate level to protect water quality at all times throughout the life of the project.

7.2 Weather and Storm Event Tracking

Visual monitoring and inspection requirements are triggered by any amount of rainfall. A minimum of 48 hours of dry weather will be used to distinguish between separate storm events.

7.2.1 Weather Tracking

The QSP should consult the National Oceanographic and Atmospheric Administration (NOAA) for the weather forecasts. NOAA forecasts can be obtained at http://www.srh.noaa.gov/. NOAA weather reports are expected to be checked daily.

7.2.2 Rain Gauges

The QSP should install a rain gauge on the project site if the closest NOAA weather station is in a location that is uncharacteristic of the project site. Locate the gauge in an open area away from obstructions such as trees, tall grass, or overhangs, around the currently open segment or staging area. Ensure that the top of the gauge is level and the gauge is not in an area where rainwater can indirectly splash from sheds, equipment, trailers, etc. If the rain gauge is vandalized, the event must be documented and corrected as soon as feasible.

If an on-site rain gauge is utilized, the gauge must have the ability to operate remotely and is shown on the Site Maps in Appendix A.

7.3 Safety and Monitoring Exemptions

Safety practices will be in accordance with the Contractor's Health and Safety Plan for the project. A summary of the safety concerns that apply to the project are provided below.

- Trip and Fall Hazards
- Active Construction Equipment
- Wet or Muddy Surfaces
- Open Trenches
- Traffic
- Wild Animals, Domestic Dogs, Snakes, Bees, Ticks, etc.

This project is not required to collect samples or conduct visual observations (inspections) under the following conditions:

- During dangerous weather conditions such as flooding and electrical storms.
- Outside of scheduled site business hours.

If monitoring of the site is unsafe because of the dangerous conditions noted above or other dangerous situations that may arise, the QSP or designated inspector shall document the conditions for why an exception to performing the monitoring was necessary. The exemption documentation shall be filed in Appendix I.

7.4 Visual Monitoring

Visual monitoring includes observations and inspections. Inspections of BMPs are required to identify and record BMPs that need maintenance to operate effectively, that have failed, or that could fail to operate as intended. Visual observations of the site are required to observe storm water drainage areas to identify any spills, leaks, or uncontrolled pollutant sources. The frequency of visual observations and inspections is identified in the table below.

Summary of Visual Monitoring and Inspections

Type of Inspection	Frequency
Routine Inspections	
QSP Inspection	Monthly
Storm Event Triggered Inspections	
During Storm Inspection	During each Storm Event

7.4.1 Routine Observations and Inspections

Routine site inspections and visual monitoring are necessary to ensure that the project is in compliance with the requirements of the General Permit and are conducted regardless of time of year or storm events. Regardless of who installs BMPs, the QSP or their delegate is expected to verify and correct installation through routine inspections. When a delegated inspector is assigned, the QSP is expected to conduct at least one inspection per month (every 30 days). This monthly inspection may not be delegated.

BMP inspections are conducted to identify and/or record:

- BMPs that are properly installed;
- BMPs that need maintenance to operate effectively;
- BMPs that failed; or
- BMPs that could fail to operate as intended.

A BMP is defined as deficient when it is not doing what it was designed to do or when it is not performing to the manufacturer's specifications.

Visual inspections along active construction zones are conducted to verify that:

- Appropriate BMPs for stormwater and non-stormwater are being implemented in areas where active construction is occurring;
- Project excavations are closed, with properly protected spoils and that road surfaces are cleaned of excavated material and construction materials such as chemicals by either removing or storing the material in protective storage containers at the end of every construction day; and
- Land areas disturbed during construction are returned to pre-construction condition or an equivalent protection is used at the end of each workday to eliminate or minimize erosion and the possible discharge of sediment or other pollutants during a storm event.

Non-Stormwater Discharge Observations are conducted to inspect each drainage area for the presence of or indications of prior or current unauthorized and authorized non-stormwater discharges.

- Presence or evidence of any non-stormwater discharge (authorized or unauthorized);
- Pollutant characteristics (floating and suspended material, sheen, discoloration, turbidity, odor, etc.); and
- Source of the discharge(s).

Inspections are expected to continue until final stabilization has been achieved.

7.4.3 Visual Monitoring Procedures, Locations, Following-Up, and Reporting

Visual monitoring shall be conducted by the QSP or delegated personnel as identified in Section 6. Stormwater observations and BMP inspections shall be documented on the Inspection Form/Checklist provided in Appendix E. Any photographs used to document observations will be referenced on the inspection report and maintained with the Completed Forms in Appendix I.

Inspections and observations will be conducted at the following locations:

- BMP locations;
- Drainage area(s);
- Discharge location(s);
- Stormwater storage or containment area(s);

If failures or shortcomings are identified during visual monitoring, repairs or design changes to BMPs shall begin within 72 hours of identification and be completed as soon as possible. If a BMP deficiency is observed during a documented inspection, it must be noted on the inspection form and include the inspection date, repair start date, corrective action, individual assigned to the action, and action complete date. This shall occur even if the deficiency is remedied immediately. The QSP is expected to use the inspection form to verify that corrective actions are being implemented. It is the Contractor's responsibility to initial and date the "date addressed" column provided in the Deficiency/Corrective Action table of the Inspection Form.

7.5 Non-Visible Pollutant Sampling and Analysis

This project is not subject to non-visible pollutant sampling and analysis requirements.

7.6 pH and Turbidity Sampling and Analysis

Routine sampling and analysis of runoff for pH and turbidity is not required on this project.

7.7 Receiving Water Sampling and Analysis

This project is not subject to Receiving Water Monitoring.

7.8 Non-Stormwater Sampling and Analysis

This project is not subject to non-stormwater sampling and analysis requirements.

7.9 Sampling and Analysis for Other Pollutants Required by the Regional Water Board

The Regional Water Board has not specified monitoring for additional pollutants for this project.

7.10 Training of Sampling Personnel

This project is not subject to training of sampling personnel requirements.

7.11 Sample Collection and Handling

This project is not subject to sample collection and handling requirements.

7.12 Sample Handling

This project is not subject to sample handling requirements.

7.13 Sample Documentation Procedures

This project is not subject to sample documentation requirements.

7.14 Active Treatment System Monitoring

This project does not require a project specific sampling and analysis plan for an ATS because deployment of an ATS is not anticipated for this project.

7.15 Bioassessment Monitoring

This project is not subject to bioassessment monitoring.

7.16 Watershed Monitoring Option

This project is not participating in a watershed monitoring program.

7.17 Quality Assurance and Quality Control

This project is not subject to additional Quality Assurance and Quality Control (QA/QC) requirements.

7.18 Data Verification

This project is not subject to data verification requirements.

7.19 Records Retention

The project is not subject to CGP records retention requirements.

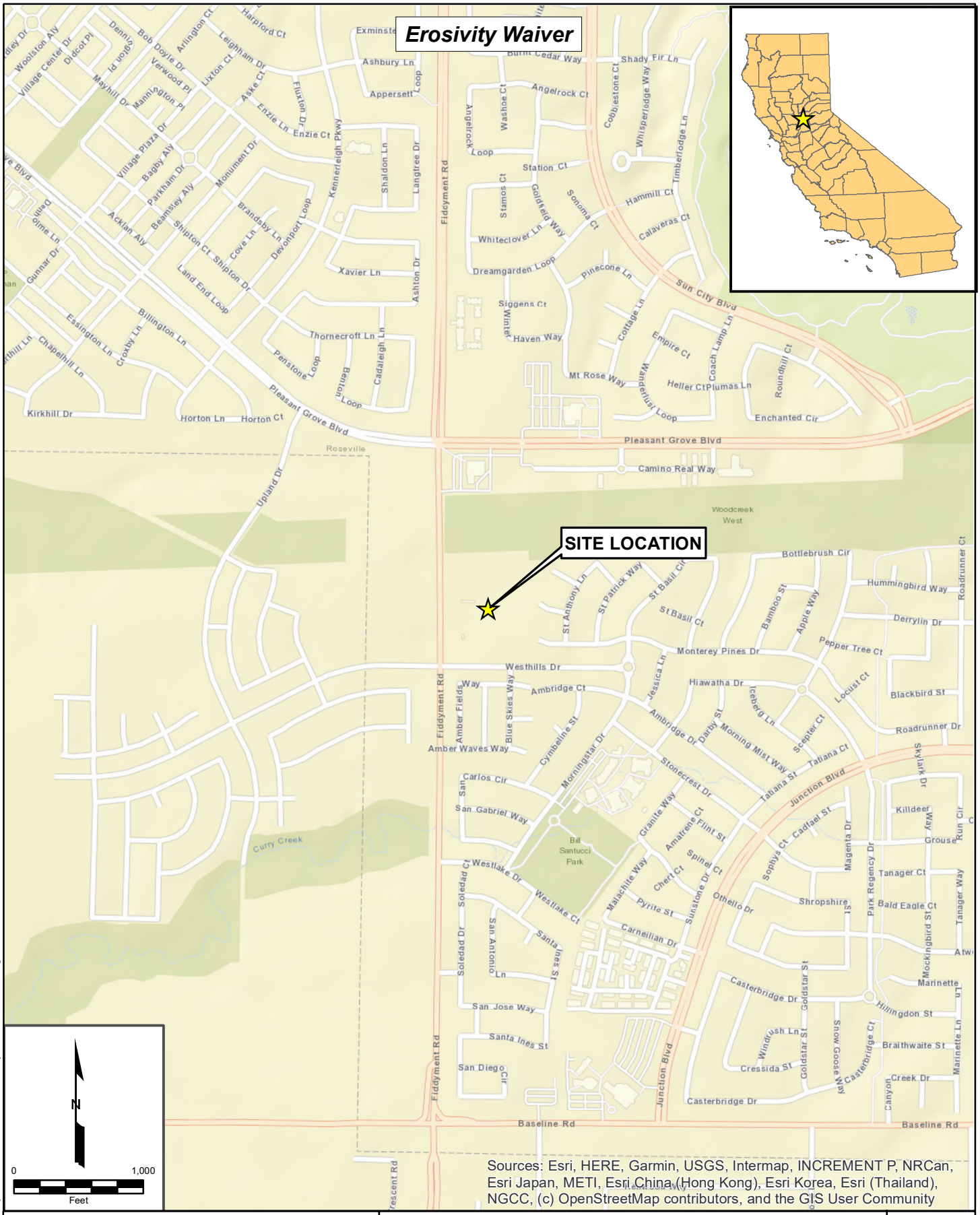
Section 8 References

The following plans, specifications, permits, and/or other documents are included in this Small Construction Rainfall Erosivity Waiver by reference.

- Project Construction Plans dated November 13, 2020, prepared by Schmidt Design Group on behalf of City of Roseville, Roseville Electric.
- The State Water Resources Control Board, Surface Water Ambient Monitoring Program, Quality Assurance Program Plan, Version 1.0 date September 1, 2008.
- Standard Methods for the Examination of Water and Wastewater, American Public Health Association.
- CASQA 2019, Stormwater BMP Handbook Portal: Construction, December 2019

Appendix A

Vicinity Map and Site Maps



Path: J:\GIS\City of Roseville\Fiddyment Substation\SWPP\Fiddyment Substation Fig A-1 SiteLoc.mxd

JJ&A	TITLE: **SITE LOCATION MAP**	DATE: 4/8/21
	LOCATION: *CITY OF ROSEVILLE ELECTRIC UTILITIES FIDDYMENT SUBSTATION LANDSCAPING ROSEVILLE, PLACER COUNTY, CALIFORNIA*	FIGURE: **A-1**

Erosivity Waiver

BMP SHEET NOTES

1) FIBER ROLLS (SE-5) SHALL BE USED AS PERIMETER PROTECTION AND AROUND TEMPORARY STOCKPILES.

2) CONTRACTOR SHALL IMPLEMENT WIND EROSION CONTROL MEASURE BMPS (WE-1) FOR STOCKPILES CREATED AND LEFT LONGER THAN ONE WORK DAY (OVERNIGHT) IF WINDY CONDITIONS ARE FORECASTED.

3) ROADWAYS, DRIVEWAYS, AND PARKING AREAS SHALL BE INSPECTED PERIODICALLY DURING WORK HOURS TO ENSURE THAT STREET SWEEPING AND VACUUMING (SE-7) IS PERFORMED AS NEEDED TO REMOVE ACCUMULATED SEDIMENT.

4) STABILIZED CONSTRUCTION ENTRANCE/EXIT (TC-1) SHALL BE USED AT ENTRANCE/EXIT POINTS FROM PAVED ACCESS ROAD TO WORK AREAS.

5) DRAIN INLET PROTECTION (SE-10) SHALL BE USED AT ALL DRAIN INLETS SHOWN IN FIGURES. FOR DRAIN INLETS THAT ARE IN PAVED AREAS, UTILIZE DI PROTECTION TYPE 5 (TEMPORARY GEOTEXTILE INSERT) IN CONJUNCTION WITH UPSTREAM GRAVEL BAG CHECK DAMS (SE-4) WHERE APPROPRIATE.

6) DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED WITH STRAW MULCH (EC-6), GEOTEXTILES/MATS (EC-7), TEMPORARY HYDRAULIC MULCH (EC-3), OR SOIL BINDERS (EC-5) PRIOR TO FORECASTED PRECIPITATION OR IF ANTICIPATED TO BE INACTIVE GREATER THAN 14 DAYS.

GENERAL BMP NOTES

A) CONSTRUCTION ACTIVITIES SHOULD BE LIMITED TO PERIODS OF DRY WEATHER. (EC-1)

B) EQUIPMENT REFUELING SHALL BE LIMITED TO THE LAYDOWN YARD OR VEHICLE AND EQUIPMENT FUELING WILL CONFORM TO NS-9.

C) LAYDOWN/STAGING AREA SHALL HAVE A SPILL RESPONSE KIT IN THE EVENT OF SPILLS DUE TO EQUIPMENT REFUELING/MINOR REPAIRS/ON-SITE MAINTENANCE.

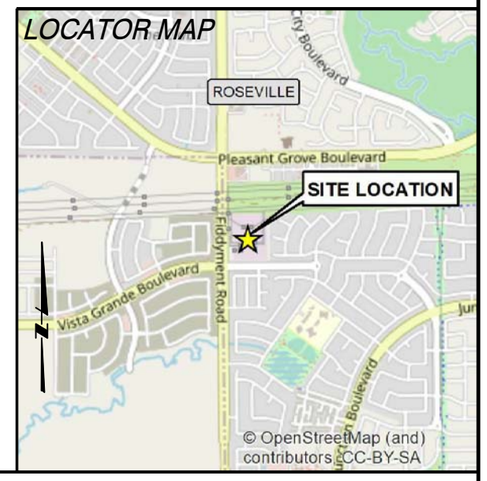
D) ALL HEAVY EQUIPMENT SHALL HAVE A SPILL RESPONSE KIT ON BOARD CONSISTING OF ABSORBENT PADS TO ALLOW IMMEDIATE RESPONSE TO HYDRAULIC LEAKS OR FUEL/OIL/COOLANT LEAKS.

E) CONTRACTOR SHALL FOLLOW BMP WM-4 (SPILL PREVENTION AND CONTROL) MEASURES WHEN HANDLING, STORING, OR USING HAZARDOUS MATERIALS.

F) CONTRACTOR SHALL CONDUCT ONLY ROUTINE MAINTENANCE AND MINOR REPAIR OF EQUIPMENT OR VEHICLES ON THIS PROJECT. ALL ROUTINE AND MINOR REPAIR WORK SHALL BE IN ACCORDANCE WITH NS-10 AND BE PERFORMED AT THE LAYDOWN YARD.

G) CONTRACTOR WILL CENTRALIZE STORAGE OF CONSTRUCTION MATERIALS TO THE EXTENT PRACTICABLE. ALL MATERIALS STORAGE AREAS MUST BE MANAGED IN ACCORDANCE WITH WASTE MANAGEMENT BMP WM-1 (MATERIAL DELIVERY AND STORAGE).

H) PORTABLE SANITARY FACILITIES FOR CONSTRUCTION PERSONNEL SHALL BE MANAGED IN ACCORDANCE WITH BMP WM-9 (SANITARY-SEPTIC WASTE MANAGEMENT). PORTABLE SANITARY FACILITIES SHALL BE DOUBLE CONTAINED AND SECURED FROM TIPPING.



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JJ&A
QSD: Mike Clegg (916) 202-6699

Prepared for
City of Roseville
PM: Chris Porter (916) 774-5615
Environmental Sup.: Julie Manfredi (916) 774-5674

Fiddyment Substation Landscaping
Roseville, Placer County, California

TITLE: SITE BMP NOTES

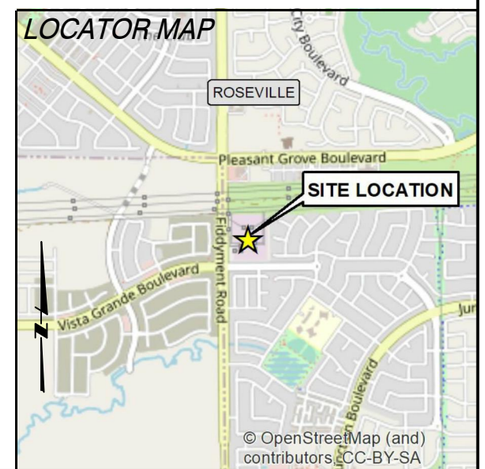
DRAWN BY	APPROVED BY	DATE	FIGURE
ML	MC	4/14/21	A-2

LEGEND

- LANDSCAPED AREA
- STORM DRAIN INLET PROTECTION (BMP SE–10)
- STABILIZED CONSTRUCTION ENTRANCE/EXIT (BMP TC–1)
- STORM WATER FLOW DIRECTION (SHEET FLOW)
- STORM WATER FLOW DIRECTION (CHANNEL FLOW)
- FIBER ROLL (SE–5)
- STREET SWEEPING (SE–7)
- TEMPORARY STOCKPILE (WM–3)
- WASTE MANAGEMENT (WM–5)
- PORTABLE TOILETS (WM–9)
- MATERIAL STORAGE AREA (WM–1)
- SPILL RESPONSE KIT (WM–4)
- VEHICLE EQUIPMENT FUELING (NS–9)
- GRAVEL CHECK DAM (BMP SE–4)

0 FEET 100
SCALE

LOCATOR MAP



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Fiddyment Substation Landscaping
Roseville, Placer County, California

TITLE: SITE BMP LAYOUT

DRAWN BY	APPROVED BY	DATE	FIGURE
ML	MC	4/8/21	A-3

Appendix B

Permit Registration Documents (PRDs)

Notice of Intent (NOI)

WDID Receipt Letter

Risk Determination

State Water Resources Control Board

EROSIVITY WAIVER

GENERAL PERMIT TO DISCHARGE STORM WATER
ASSOCIATED WITH CONSTRUCTION ACTIVITY
(WQ ORDER No. 2009-0009-DWQ)

Waiver ID:

Property Owner Information

Type:

Name: Roseville City
Address: 316 Vernon St Suite 400
Address 2:
City/State/Zip: Roseville CA 95678
Contact Name: Chris Porter
Title: Power Manager
Phone Number: 916-774-5615
Email Address: CPorter@roseville.ca.us

Contractor/Developer Information

Name: Roseville City
Address: 316 Vernon St Suite 400
Address 2:
City/State/Zip: Roseville CA 95678
Contact Name: Chris Porter
Title: Power Manager
Phone Number: 916-774-5615
Email Address: CPorter@roseville.ca.us

Construction Site Information

Contact Name: Chris Porter
Title: Power Manager
Site Name: Fiddyment Substation
Address: 6821 Fiddyment Road
City/State/Zip: Roseville CA 95747
Site Phone #: 916-774-5615
County: Placer
Email Address: CPorter@roseville.ca.us
Latitude: 38.7628
Longitude: -121.35822
Construction Start: June 01, 2021
Total Size of Construction Area: 1.95 Acres
Complete Grading: October 30, 2021
Total Area to be Disturbed: 1.95 Acres
Final Stabilization: October 30, 2021

Risk Values

R: 4.98
K: 0.43
LS: 0.29
Beneficial Uses/303(d): No

Type of Construction: *Commercial
Receiving Water:
Qualified SWPPP Developer: Michael Clegg

RWQCB Jurisdiction: Region 5S - Sacramento
Phone: 916-464-3291
Email: r5s_stormwater@waterboards.ca.gov

Certification

Certification #: 26094

Name:
Date:
Title:

National Pollutant Discharge Elimination System (NPDES)

Rainfall Erosivity Factor Calculator for Small Construction Sites

EPA's stormwater regulations allow NPDES permitting authorities to waive NPDES permitting requirements for stormwater discharges from small construction sites if:

- the construction site disturbs less than five acres, and
- the rainfall erosivity factor ("R" in the revised universal soil loss equation, or RUSLE) value is less than five during the period of construction activity.

If your small construction project is located in an area where EPA is the permitting authority and your R factor is less than five, you qualify for a low erosivity waiver (LEW) from NPDES stormwater permitting. If your small construction project does not qualify for a waiver, then NPDES stormwater permit coverage is required. Follow the steps below to calculate your R-Factor.

LEW certifications are submitted through the NPDES eReporting Tool or "CGP-NeT". Several states that are authorized to implement the NPDES permitting program also accept LEWs. Check with your state NPDES permitting authority for more information.

- Submit your LEW through EPA's eReporting Tool
- List of states, Indian country, and territories where EPA is the permitting authority
- Construction Rainfall Erosivity Waiver Fact Sheet
- Appendix C of the 2017 CGP – Small Construction Waivers and Instructions

The R-factor calculation can also be integrated directly into custom applications using the R-Factor web service.

For questions or comments, email EPA's CGP staff at cgp@epa.gov.

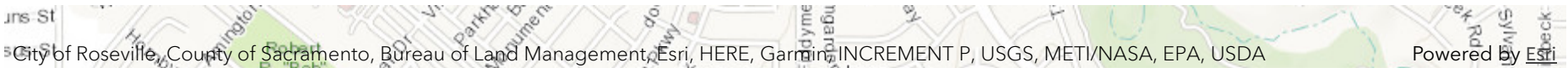
● Select the estimated start and end dates of construction by clicking the boxes and using the dropdown calendar.

The period of construction activity begins at initial earth disturbance and ends with final stabilization.

Start Date: 06/01/2021 **End Date:** 10/29/2021

● Locate your small construction project using the search box below or by clicking on the map.

Location: 6821 fiddyment, roseville ca **Search**



Click the "Calculate R Factor" button below to calculate an R Factor for your small construction project.

Calculate R Factor

Facility Information

Start Date: 06/01/2021	**Latitude:** 38.7629
End Date: 10/29/2021	**Longitude:** -121.3578

Calculation Results

Rainfall erosivity factor (R Factor) = **4.98**

A rainfall erosivity factor of less than 5.0 has been calculated for your site and period of construction. If you are located in an area where EPA is the permitting authority, you can submit a LEW through EPA's NPDES eReporting Tool (NeT). Otherwise, contact your state permitting authority to determine if you are eligible for a waiver from NPDES permitting requirements.

If you submitted a LEW through EPA's NeT and your construction activity ultimately extends past the project completion date you specified above, you must recalculate the R factor using the original start date and a new project completion date. If the recalculated R factor is still less than 5.0, you must submit a modification to your LEW through NeT before the end of the original construction period. If the new R factor is 5.0 or greater, you must submit a Notice of Intent (NOI) instead to be covered by the Construction General Permit (CGP) before the original project completion date.

Water Boards Storm Water Multiple Application & Report Tracking System

Help Logout

You are logged-in as: **Justin Quiggle**
If this account does not belong to you, please log out.

Navigate To:

Owner Information

The application is organized into different tabs. Please complete all applicable tabs before submitting the form. If you want to complete the application at a later time, please click on "Save & Exit".

WDID/App ID:	- 535329	**Owner:**	Roseville City	**Certified Date:**	
Status:	Not Submitted		316 Vernon St Suite 400 Roseville CA 95678	**Processed Date:**	
Order No:	2009-0009-DWQ	**Site:**	Fiddyment Substation	**NOT Effective Date:**	
Permit Type:	Construction - Waiver		6821 Fiddyment Road Roseville CA 95747	**Previous ID:**	-

Owner Info | Developer Info | Site Info | Risk | Addl. Site Info | Attachments | Certification | Reports | Inspections | Print | Status History | Linked Users | COIs

Property Owner Information **Populate Contact Info:** LEGAL_RESPONSIBLE_PERSON - Dion Louthan

Owner Name:	Roseville City * ?	**Contact First Name:**	Chris *		
Street Address:	316 Vernon St Suite 400 * ?	**Contact Last Name:**	Porter *		
Address Line 2:	?	**Title:**	Power Manager		
City/State/Zip::	Roseville CA 95678 * ?	**Phone:**	916-774-5615 * **Ext:**	**(999-999-9999)**	
Type:	City/Town Agency ? * ?	**E-mail:**	CPorter@roseville.ca.us *	**(abc@xyz.com)**	
Federal Tax ID:	?				

Save & Exit | Save & Continue

Fields marked with * are mandatory fields.

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Water Boards Storm Water Multiple Application & Report Tracking System

Help Logout

You are logged-in as: **Justin Quiggle**
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Navigate To:

Developer Information

The application is organized into different tabs. Please complete all applicable tabs before submitting the form. If you want to complete the application at a later time, please click on "Save & Exit".

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Status:	Not Submitted		316 Vernon St Suite 400 Roseville CA 95678	**Processed Date:**	
Order No:	2009-0009-DWQ	**Site:**	Fiddyment Substation	**NOT Effective Date:**	
Permit Type:	Construction - Waiver		6821 Fiddyment Road Roseville CA 95747	**Previous ID:**	-

Owner Info | Developer Info | Site Info | Risk | Addl. Site Info | Attachments | Certification | Reports | Inspections | Print | Status History | Linked Users | COIs

Developer Information | Same as Owner Info | Clear Developer Information

Developer Name:	Roseville City *	**Contact First Name:**	Chris *		
Street Address:	316 Vernon St Suite 400 *	**Contact Last Name:**	Porter *		
Address Line 2:		**Title:**	Power Manager		
City/State/Zip::	Roseville CA 95678 *	**Phone:**	916-774-5615 * **Ext:**		**(999-999-9999)**
		E-mail:	CPorter@roseville.ca.us *		**(abc@xyz.com)**

Save & Exit | Save & Continue

Fields marked with * are mandatory fields.

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Site Information

The application is organized into different tabs. Please complete all applicable tabs before submitting the form. If you want to complete the application at a later time, please click on "Save & Exit".

WDID/App ID:	- 535329	**Owner:**	Roseville City	**Certified Date:**	
Status:	Not Submitted		316 Vernon St Suite 400 Roseville CA 95678	**Processed Date:**	
Order No:	2009-0009-DWQ	**Site:**	Fiddyment Substation	**NOT Effective Date:**	
Permit Type:	Construction - Waiver		6821 Fiddyment Road Roseville CA 95747	**Previous ID:**	-

Site Information | Same as Owner Info | Same As Developer Info | Clear Info | If different, enter below

Site Name:	Fiddyment Substation *	**Contact First Name:**	Chris *
Street Address:	6821 Fiddyment Road *	**Contact Last Name:**	Porter *
Address Line 2:		**Title:**	Power Manager
Latitude:	38.76280 **Longitude:** -121.35822 *Lookup Map (Decimal degrees only, minimum 5 significant digits Ex: 99.99999)	**Phone:**	916-774-5615 **Ext:** (999-999-9999)
City:	Roseville *	**Emergency Phone:**	Ext: (999-999-9999)
County:	Placer *	**E-mail:**	CPorter@roseville.ca.us *(abc@xyz.com)
Regional Board:	Region 5S - Sacramento *		
State/Zip:	CA 95747 *	**Total Site Size:**	1.95 * Acres Sqft

Additional Information (Construction Specific)

Total Area to be Disturbed:	1.95 Acres *	**Percent of Total Disturbed:**	100 %
Imperviousness Before Construction:	100 % *	**Imperviousness After Construction:**	100 % *
Tract Number(s):			
Mile Post Marker:			
Is the construction site part of larger common plan of development?	Yes No *		
Name of plan or development:			
Construction Commencement Date:	06/01/2021 *(mm/dd/yyyy)		
Complete Grading Date:	10/30/2021 (mm/dd/yyyy)	**Complete Project Date:**	10/30/2021 *(mm/dd/yyyy)

Type of Construction

Construction

Residential Commercial Industrial Reconstruction Transportation Utility:

Other: *

Linear Utility Project

Above Ground Below Ground Gas Line Water/Sewer Line Communication Line Cable Line Electrical

Other: *

Save & Exit | Save & Continue

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Risk

The application is organized into different tabs. Please complete all applicable tabs before submitting the form. If you want to complete the application at a later time, please click on "Save & Exit".

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Status:	Not Submitted		316 Vernon St Suite 400 Roseville CA 95678	**Processed Date:**	
Order No:	2009-0009-DWQ	**Site:**	Fiddyment Substation	**NOT Effective Date:**	
Permit Type:	Construction - Waiver		6821 Fiddyment Road Roseville CA 95747	**Previous ID:**	-

SEDIMENT RISK FACTOR WORKSHEET
Instructions: Enter R,K and LS factor values. System will calculate watershed erosion estimates and site sediment risk factor
A. Sediment Risk

A) R Factor Value: (What's this?)	4.98 * Erosivity Calculator
The site is eligible for Erosivity Waiver. Do you want to apply for Erosivity Waiver? Yes No	
B) K Factor Value (weighted average, by area, for all site soils) (What's this?) ***If not using the SWRCB map(Populate K Factor) upload your analysis on the Attachment Tab prior to submitting to the SWRCB.	0.43 * Populate K Factor
C) LS Factor (weighted average, by area, for all slopes) (What's this?) ***If not using the SWRCB map(Populate LS Factor) upload your analysis on the Attachment Tab prior to submitting to the SWRCB.	0.29 * Populate LS Factor
Watershed Erosion Estimate (=R*K*LS) in tons/acre	0.63
Site Sediment Risk Factor Low Sediment Risk: < 15 tons/acre Medium Sediment Risk: >/= 15 and <75 tons/acre High Sediment Risk: >/= 75 tons/acre	Low

RECEIVING WATER (RW) RISK FACTOR WORKSHEET
A. Watershed Characteristics

A.1.(a) Does the disturbed area discharge directly or indirectly to a 303(d) listed waterbody impaired by sediment? OR A.1.(b) Is the disturbed area located within a sub-watershed draining to a 303(d) listed waterbody impaired by sediment? OR A.2. Is the disturbed area located within a planning watershed draining to a waterbody with designated beneficial uses of COLD, SPAWN AND MIGRATORY?	Populate Receiving Water Risk No * Yes = High, No = Low Statewide Map of High Receiving Water Risk Watersheds	Low

C. Combined Risk Level Matrix

		Sediment Risk: Low	Sediment Risk: Medium	Sediment Risk: High
Receiving Water Risk	**Low**	Level1	Level2	
	High		Level2	Level3

Project Sediment Risk:	Low
Project Receiving Water Risk:	Low
Project Combined Risk:	Level1

Save & Exit | Save & Continue

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Additional Site Information

The application is organized into different tabs. Please complete all applicable tabs before submitting the form. If you want to complete the application at a later time, please click on "Save & Exit".

WDID/App ID:	- 535329	**Owner:**	Roseville City	**Certified Date:**	
Status:	Not Submitted		316 Vernon St Suite 400 Roseville CA 95678	**Processed Date:**	
Order No:	2009-0009-DWQ	**Site:**	Fiddyment Substation	**NOT Effective Date:**	
Permit Type:	Construction - Waiver		6821 Fiddyment Road Roseville CA 95747	**Previous ID:**	-

Owner Info | Developer Info | Site Info | Risk | Addl. Site Info | Attachments | Certification | Reports | Inspections | Print | Status History | Linked Users | COIs

Regulatory Status

If applicable, has the local agency reviewed/approved a required erosion/sediment control plan?	○ Yes ○ No ◉ N/A
Does the erosion/sediment control plan address construction activities such as infrastructure and structures?	○ Yes ○ No ◉ N/A
Name of Local Agency:	
Phone:	**(999-999-9999)**
Is this project or any part thereof, subject to conditions imposed under a CWA Section 404 Water Quality Certification?	○ Yes ◉ No
If yes, provide details:	

Receiving Water Information

Name of receiving water: (river, lake, creek, stream, bay, ocean)	
Does the storm water runoff from the construction site discharge to (check all that apply):	☐ **Indirectly to waters of the US** ☐ **Storm drain system - Enter owner's name:** ☐ **Directly to waters of the US (e.g, river, lake, creek, stream, bay, ocean, etc)**

Qualified SWPPP Developer (QSD)

First Name:	Michael *	
Last Name:	Clegg *	Lookup QSD
QSD Certification No:	26094 *	

Save & Exit | Save & Continue

Fields marked with * are mandatory fields.

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Appendix C

Amendment Certifications

Amendment Certification

General Information	
Project/Site Name:	**Fiddyment Substation**
Project Location:	**Roseville, CA**
Amendment Number:	

QSD Certification of the SWPPP Amendment

By signing below, the QSD certifies the following statement, "I certify under penalty of law that this amendment and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." Additionally, the QSD certifies that, "I am a Qualified SWPPP Developer in good standing as of the date signed below."

QSD Signature	Date
QSD Name	QSD Certification Number
Title and Affiliation	Telephone Number
Address	Email Address

Appendix D

Construction Activities, Materials Used, and Associated Pollutants

Activities, Materials, and Pollutants

Category	Construction Site Material	Visually Observable?	Pollutant Indicators[2]	Suggested Analyses Field [3]	Laboratory
Portland Concrete Cement & Masonry Products	Portland Cement (PCC)	Yes - Milky Liquid	Visually Observable - No Testing Required		
	Masonry products	No	**pH**	pH Meter Alkalinity or Acidity Test Kit	EPA 150.1 (pH)
			Alkalinity		SM 2320 (Alkalinity)
	Sealant (Methyl Methacrylate - MMA)	No	**Methyl Methacrylate**	None	EPA 625 (SVOC)
			Cobalt		EPA 200.8 (Metal)
			Zinc		
	Incinerator Bottom Ash Bottom Ash Steel Slag Foundry Sand Fly Ash Municipal Solid Waste	No	**Aluminum** **Calcium** **Vanadium** **Zinc**	Calcium Test	EPA 200.8 (Metal) EPA 200.7 (Calcium)
	Mortar	Yes - Milky Liquid	Visually Observable - No Testing Required		
	Concrete Rinse Water	Yes - Milky Liquid	Visually Observable - No Testing Required		
	Non-Pigmented Curing Compounds	No	Acidity	pH Meter Alkalinity or Acidity Test Kit	SM 2310B (Acidity)
			Alkalinity		SM 2320 (Alkalinity)
			pH		EPA 150.1 (pH)
			VOC		EPA 601/602 or EPA 624 (VOC)
			SVOC		EPA 625 (SVOC)

Category	Construction Site Material	Visually Observable?	Pollutant Indicators[2]	Suggested Analyses Field [3]	Laboratory
Landscaping and Other Products	Aluminum Sulfate	No	Aluminum	TDS Meter Sulfate	EPA 200.8 (Metal)
			TDS		EPA 160.1 (TDS)
			Sulfate		EPA 300.0 (Sulfate)
	Sulfur-Elemental	No	**Sulfate**	Sulfate	EPA 300.0 (Sulfate)
	Fertilizers-Inorganic [4]	No	**Nitrate**	Nitrate	EPA 300.0 (Nitrate)
			Phosphate	Phosphate	EPA 365.3 (Phosphate)
			Organic Nitrogen	None	EPA 351.3 (TKN)
			Potassium	None	EPA 200.8 (Metal)
	Fertilizers-Organic	No	TOC	Nitrate	EPA 415.1 (TOC)
			Nitrate		EPA 300.0 (Nitrate)
			Organic Nitrogen		EPA 351.3 (TKN)
			COD		EPA 410.4 (COD)
	Natural Earth (Sand, Gravel, and Topsoil)	Yes - Cloudiness and turbidity	Visually Observable - No Testing Required		
	Herbicide	No	**Herbicide**	None	Check lab for specific herbicide or pesticide
	Pesticide		**Pesticide**		
	Lime		Alkalinity	pH Meter Alkalinity or Acidity Test Kit	SM 2320 (Alkalinity)
			pH		EPA 150.1 (pH)
Portable Toilet Waste Products	Portable Toilet Waste	Yes	Visually Observable - No Testing Required		

Category	Construction Site Material	Visually Observable?	Pollutant Indicators[2]	Suggested Analyses Field [3]	Laboratory
Vehicle	Antifreeze and Other Vehicle Fluids	Yes - Colored Liquid	Visually Observable - No Testing Required		
	Batteries	No	Sulfuric Acid	None	EPA 300.0 (Sulfate)
			Lead	None	EPA 200.8 (Metal)
			pH	pH Meter Alkalinity or Acidity Test Kit	EPA 150.1 (pH)
	Fuels, Oils, Lubricants	Yes - Rainbow Surface Sheen and Odor	Visually Observable - No Testing Required		
Soil Amendment/Stabilization Products	Polymer/Copolymer [6, 7]	No	**Organic Nitrogen**	None	EPA 351.3 (TKN)
			BOD	None	EPA 405.1 (BOD)
			COD	None	EPA 410.4 (COD)
			DOC	None	EPA 415.1 (DOC)
			Nitrate	Nitrate	EPA 300.0 (Nitrate)
			Sulfate	Sulfate	EPA 300.0 (Sulfate)
			Nickel	None	EPA 200.8 (Metal)
	Straw/Mulch	Yes - Solids	Visually Observable - No Testing Required		
	Lignin Sulfonate	No	Alkalinity	Alkalinity	SM 2320 (Alkalinity)
			TDS	TDS Meter	EPA 160.1 (TDS)
	Psyllium	No	COD	None	EPA 410.4 (COD)
			TOC		EPA 415.1 (TOC)
	Guar/Plant Gums	No	COD	None	EPA 410.4 (COD)
			TOC		EPA 415.1 (TOC)
			Nickel		EPA 200.8 (Metal)
	Gypsum	No	pH	pH Meter Alkalinity or Acidity Test Kit	EPA 150.1 (pH)
			Calcium	Calcium	EPA 200.7 (Calcium)

Category	Construction Site Material	Visually Observable?	Pollutant Indicators[2]	Suggested Analyses Field [3]	Laboratory
			Sulfate	Sulfate	EPA 300.0 (Sulfate)
			Aluminum	None	EPA 200.8 (Metal)
			Barium		
			Manganese		
			Vanadium		

Notes:

1. If specific pollutant is known, analyze only for that specific pollutant. See Material SDS to verify.
2. For each construction material, test for one of the pollutant indicators. Bolded pollutant indicates lowest analysis cost or best indicator. However, the composition of the specific construction material, if known, is the first criterion for selecting which analysis to use.
3. See www.hach.com, www.lamotte.com, www.ysi.com and www.chemetrics.com for some of the test kits.
4. If the type of inorganic fertilizer is unknown, analyze for all pollutant indicators listed.
5. Only if special handling requirements are required in the Caltrans Standard Special Provisions for aerially deposited lead (ADL)
6. If used with a dye or fiber matrix, it is considered visually observable and no testing is required.
7. Based upon research conducted by Caltrans, the following copolymers/polymers do not discharge pollutants and water quality sampling and analysis is not required: Super Tak™, M-Binder™, Fish Stik™, Pro40dc™, Fisch-Bond™, and Soil Master WR™.

Acronyms:

- BOD – Biochemical Oxygen Demand
- COD – Chemical Oxygen Demand
- DOC – Dissolved Organic Carbon
- EPA – Environmental Protection Agency
- HACH – Worldwide company that provides advanced analytical systems and technical support for water quality testing.
- SM – Standard Method
- SVOC – Semi-Volatile Organic Compounds
- TDS – Total Dissolved Solids
- TKN – Total Kjeldahl Nitrogen
- TOC – Total Organic Carbon
- TSP – Tri-Sodium Phosphate
- VOC - Volatile Organic Compounds

References:

- Construction Storm Water Sampling and Analysis Guidance Document, California Stormwater Quality Task Force, October 2001.
- Environmental Impact of Construction and Repair Materials on Surface and Ground Waters, Report 448, National Cooperative Highway Research Program, 2001
- Soil Stabilization for Temporary Slopes, Environmental Programs, California Department of Transportation, October 1, 1999.
- Statewide Storm Water Management Plan, Division of Environmental Analysis, California Department of Transportation, April 2002.
- Statewide Storm Water Quality Practice Guidelines, Environmental Program, California Department of Transportation, August 2000.
- Soil Stabilization for Temporary Slopes and District 7 Erosion Control Pilot Study, June 2000.
- Stormwater Monitoring Protocols, Guidance Manual, California Department of Transportation, May 2000.

Appendix E

Example Forms

Inspection Form and BMP Checklist
Training Form

CONSTRUCTION SITE STORMWATER INSPECTION REPORT

Inspection Type:	**Weekly**	**Pre Storm**	**During**	**Post Storm**
Weather Conditions:	**Sunny**	**Cloudy**	**Rain**	**Other**

Project Information		
WDID #:	**Inspection Date:**	**Time:**
Construction Site Name:		
Site PM:	**Site QSP:**	**QSP ID#:**
Construction Stage:		

Observations		
Date rain forecast to occur:	**Forecast % chance of rain:**	
Storm beginning: (date/time)	**Storm duration: (days/hrs)**	**Rain gauge reading: (inches)**
Time lapsed since last storm event: (days or hours)		**Area of site exposed:**

Best Management Practices (BMPs) Inspection Checklist

SWPPP	**YES**	**NO**	**N/A**	**Comments/ Action Required**
Is the SWPPP on site and accessible?				
Does the SWPPP reflect current site conditions?				
Does the SWPPP include a current site map accurately indicating BMPs installed at the site?				
Are amendments to the SWPPP documented and dated?				
Required site BMP inspection reports on file?				
Have all personnel onsite received SWPPP training?				
Are BMP materials stockpiled and available for use?				
Erosion Control	**YES**	**NO**	**N/A**	**Comments/ Action Required**
Erosion Control BMPs in place, effective and maintained?				
Is the site impacted by Run-on?				
Run-on BMPs installed effectively?				
BMPs implemented on inactive disturbed areas?				
Implemented BMPs effectively stabilizing soil?				
Channeling, rilling or active erosion observed?				
Sediment Control	**YES**	**NO**	**N/A**	**Comments/ Action Required**
Sediment control BMPs in place and maintained?				
All operational storm drain inlets protected from sediment inflow?				
Current BMPs adequately controlling sediment?				
Evidence of sediment or sediment laden runoff leaving the site?				
Risk/ Type 2 & 3- Sediment controls installed on slopes?				
Tracking Controls	**YES**	**NO**	**N/A**	**Comments/ Action Required**
Stabilized construction entrance/exits used at site?				
Public roads/intersections free of sediment?				
Tracking of sediment from construction areas?				
Current BMPs effectively preventing tracking of sediment?				

CONSTRUCTION SITE STORMWATER INSPECTION REPORT

Wind Erosion Control	YES	NO	N/A	Comments/ Action Required
Dust Control BMPs in place?				
Current BMPs adequately preventing wind erosion?				
Good Housekeeping	**YES**	**NO**	**N/A**	**Comments/ Action Required**
Waste/debris/washout containers covered during rain event & after hrs?				
Designated concrete washout properly installed and maintained?				
Portable toilets located 50 ft. from drain inlets or surface water?				
Portable toilets secured and placed behind sidewalks?				
Stockpiles covered/bermed when not in use (inactive)?				
Landscape materials covered/bermed?				
Landscape activities ceased 48 hrs prior to rain event?				
Evidence of spills or leaks?				
Evidence of waste laden runoff leaving the site?				
Current waste management BMPs adequate?				
Vehicle/Construction Materials	**YES**	**NO**	**N/A**	**Comments/ Action Required**
Construction materials not intended for outdoor use covered and protected from weather?				
Construction materials stored away from inlets?				
Hazardous wastes placed in secondary containment/covered and bermed?				
Non-Stormwater Management	**YES**	**NO**	**N/A**	**Comments/ Action Required**
BMPs for non-stormwater discharges properly implemented?				
BMPs adequate for managing non-stormwater discharges?				
Evidence of non-stormwater discharges?				
Non-visible pollutant sampling required?				
If applicable, sampling locations noted in SWPPP?				
Spill kit available on site?				

Additional Comments

Acknowledgement of Site Inspection	
Inspector Name:	**Inspector Title:**
Signature:	**Date:**

Appendix F

Contractors and Subcontractors

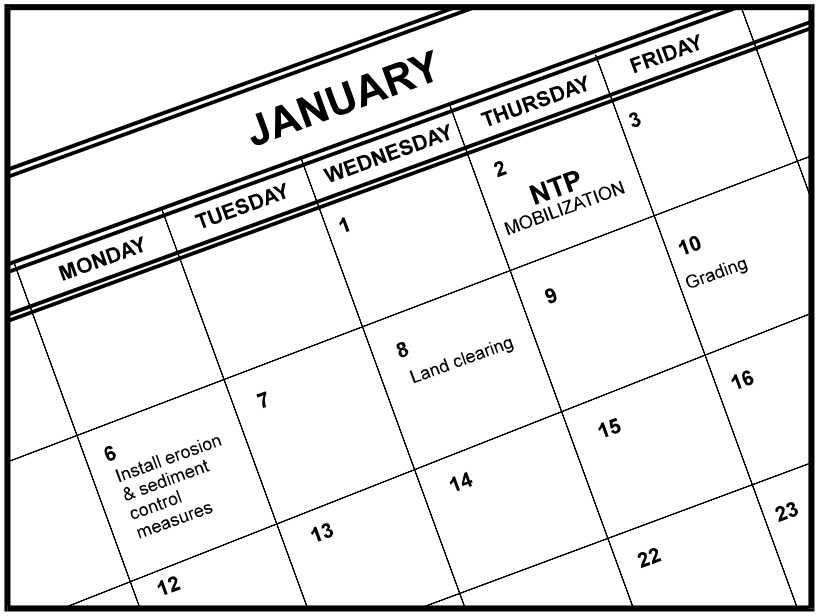
Contractors and Subcontractors

Contact Name	Company Name	Work Address	Telephone Number	Emergency Contact Number	Area of Responsibility

Appendix G

BMP Fact Sheets

Scheduling EC-1



Description and Purpose

Scheduling is the development of a written plan that includes sequencing of construction activities and the implementation of BMPs such as erosion control and sediment control while taking local climate (rainfall, wind, etc.) into consideration. The purpose is to reduce the amount and duration of soil exposed to erosion by wind, rain, runoff, and vehicle tracking, and to perform the construction activities and control practices in accordance with the planned schedule.

Suitable Applications

Proper sequencing of construction activities to reduce erosion potential should be incorporated into the schedule of every construction project especially during rainy season. Use of other, more costly yet less effective, erosion and sediment control BMPs may often be reduced through proper construction sequencing.

Limitations

- Environmental constraints such as nesting season prohibitions reduce the full capabilities of this BMP.

Implementation

- Avoid rainy periods. Schedule major grading operations during dry months when practical. Allow enough time before rainfall begins to stabilize the soil with vegetation or physical means or to install sediment trapping devices.
- Plan the project and develop a schedule showing each phase of construction. Clearly show how the rainy season relates

Categories

EC	Erosion Control	☑
SE	Sediment Control	☒
TC	Tracking Control	☒
WE	Wind Erosion Control	☒
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

None

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to soil disturbing and re-stabilization activities. Incorporate the construction schedule into the SWPPP.

- Include on the schedule, details on the rainy season implementation and deployment of:
  - Erosion control BMPs
  - Sediment control BMPs
  - Tracking control BMPs
  - Wind erosion control BMPs
  - Non-stormwater BMPs
  - Waste management and materials pollution control BMPs
- Include dates for activities that may require non-stormwater discharges such as dewatering, sawcutting, grinding, drilling, boring, crushing, blasting, painting, hydro-demolition, mortar mixing, pavement cleaning, etc.
- Work out the sequencing and timetable for the start and completion of each item such as site clearing and grubbing, grading, excavation, paving, foundation pouring utilities installation, etc., to minimize the active construction area during the rainy season.
  - Sequence trenching activities so that most open portions are closed before new trenching begins.
  - Incorporate staged seeding and re-vegetation of graded slopes as work progresses.
  - Schedule establishment of permanent vegetation during appropriate planting time for specified vegetation.
- Non-active areas should be stabilized as soon as practical after the cessation of soil disturbing activities or one day prior to the onset of precipitation.
- Monitor the weather forecast for rainfall.
- When rainfall is predicted, adjust the construction schedule to allow the implementation of soil stabilization and sediment treatment controls on all disturbed areas prior to the onset of rain.
- Be prepared year-round to deploy erosion control and sediment control BMPs. Erosion may be caused during dry seasons by un-seasonal rainfall, wind, and vehicle tracking. Keep the site stabilized year-round and retain and maintain rainy season sediment trapping devices in operational condition.
- Apply permanent erosion control to areas deemed substantially complete during the project's defined seeding window.
- Avoid soil disturbance during periods with high wind velocities.

Costs

Construction scheduling to reduce erosion may increase other construction costs due to reduced economies of scale in performing site grading. The cost effectiveness of scheduling techniques

should be compared with the other less effective erosion and sedimentation controls to achieve a cost-effective balance.

Inspection and Maintenance

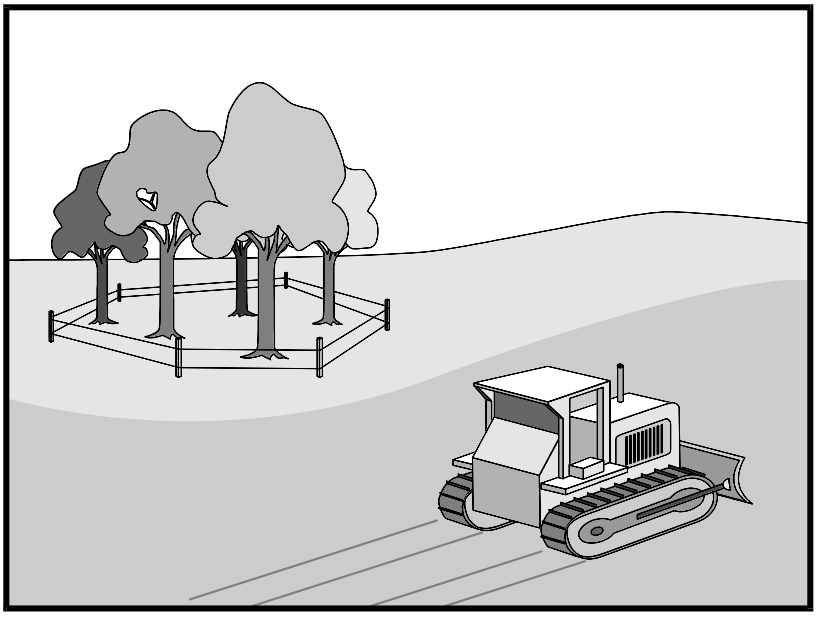
- Verify that work is progressing in accordance with the schedule. If progress deviates, take corrective actions.
- Amend the schedule when changes are warranted.
- Amend the schedule prior to the rainy season to show updated information on the deployment and implementation of construction site BMPs.

References

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Stormwater Management for Construction Activities Developing Pollution Prevention Plans and Best Management Practices (EPA 832-R-92-005), U.S. Environmental Protection Agency, Office of Water, September 1992.

Preservation of Existing Vegetation EC-2



Description and Purpose

Carefully planned preservation of existing vegetation minimizes the potential of removing or injuring existing trees, vines, shrubs, and grasses that protect soil from erosion.

Suitable Applications

Preservation of existing vegetation is suitable for use on most projects. Large project sites often provide the greatest opportunity for use of this BMP. Suitable applications include the following:

- Areas within the site where no construction activity occurs or occurs at a later date. This BMP is especially suitable to multi year projects where grading can be phased.
- Areas where natural vegetation exists and is designated for preservation. Such areas often include steep slopes, watercourse, and building sites in wooded areas.
- Areas where local, state, and federal government require preservation, such as vernal pools, wetlands, marshes, certain oak trees, etc. These areas are usually designated on the plans, or in the specifications, permits, or environmental documents.
- Where vegetation designated for ultimate removal can be temporarily preserved and be utilized for erosion control and sediment control.
- Protecting existing vegetation buffers and swales.

Categories

EC	Erosion Control	☑
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

None

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Limitations

- Requires forward planning by the owner/developer, contractor, and design staff.
- Limited opportunities for use when project plans do not incorporate existing vegetation into the site design.
- For sites with diverse topography, it is often difficult and expensive to save existing trees while grading the site satisfactory for the planned development.

Implementation

The best way to prevent erosion is to not disturb the land. In order to reduce the impacts of new development and redevelopment, projects may be designed to avoid disturbing land in sensitive areas of the site (e.g., natural watercourses, steep slopes), and to incorporate unique or desirable existing vegetation into the site's landscaping plan. Clearly marking and leaving a buffer area around these unique areas during construction will help to preserve these areas as well as take advantage of natural erosion prevention and sediment trapping.

Existing vegetation to be preserved on the site must be protected from mechanical and other injury while the land is being developed. The purpose of protecting existing vegetation is to ensure the survival of desirable vegetation for shade, beautification, and erosion control. Mature vegetation has extensive root systems that help to hold soil in place, thus reducing erosion. In addition, vegetation helps keep soil from drying rapidly and becoming susceptible to erosion. To effectively save existing vegetation, no disturbances of any kind should be allowed within a defined area around the vegetation. For trees, no construction activity should occur within the drip line of the tree.

Timing

- Provide for preservation of existing vegetation prior to the commencement of clearing and grubbing operations or other soil disturbing activities in areas where no construction activity is planned or will occur at a later date.

Design and Layout

- Mark areas to be preserved with temporary fencing. Include sufficient setback to protect roots.
  - Orange colored plastic mesh fencing works well.
  - Use appropriate fence posts and adequate post spacing and depth to completely support the fence in an upright position.
- Locate temporary roadways, stockpiles, and layout areas to avoid stands of trees, shrubs, and grass.
- Consider the impact of grade changes to existing vegetation and the root zone.
- Maintain existing irrigation systems where feasible. Temporary irrigation may be required.
- Instruct employees and subcontractors to honor protective devices. Prohibit heavy equipment, vehicular traffic, or storage of construction materials within the protected area.

- Consider pruning or mowing vegetation instead of removing it to allow for regrowth.
- If possible, retain vegetation buffer around the site and adjacent waterways.

Costs

There is little cost associated with preserving existing vegetation if properly planned during the project design, and these costs may be offset by aesthetic benefits that enhance property values. During construction, the cost for preserving existing vegetation will likely be less than the cost of applying erosion and sediment controls to the disturbed area. Replacing vegetation inadvertently destroyed during construction can be extremely expensive, sometimes in excess of $10,000 per tree.

Inspection and Maintenance

During construction, the limits of disturbance should remain clearly marked at all times. Irrigation or maintenance of existing vegetation should be described in the landscaping plan. If damage to protected trees still occurs, maintenance guidelines described below should be followed:

- Verify that protective measures remain in place. Restore damaged protection measures immediately.
- Serious tree injuries shall be attended to by an arborist.
- Damage to the crown, trunk, or root system of a retained tree shall be repaired immediately.
- Trench as far from tree trunks as possible, usually outside of the tree drip line or canopy. Curve trenches around trees to avoid large roots or root concentrations. If roots are encountered, consider tunneling under them. When trenching or tunneling near or under trees to be retained, place tunnels at least 18 in. below the ground surface, and not below the tree center to minimize impact on the roots.
- Do not leave tree roots exposed to air. Cover exposed roots with soil as soon as possible. If soil covering is not practical, protect exposed roots with wet burlap or peat moss until the tunnel or trench is ready for backfill.
- Cleanly remove the ends of damaged roots with a smooth cut.
- Fill trenches and tunnels as soon as possible. Careful filling and tamping will eliminate air spaces in the soil, which can damage roots.
- If bark damage occurs, cut back all loosened bark into the undamaged area, with the cut tapered at the top and bottom and drainage provided at the base of the wood. Limit cutting the undamaged area as much as possible.
- Aerate soil that has been compacted over a trees root zone by punching holes 12 in. deep with an iron bar and moving the bar back and forth until the soil is loosened. Place holes 18 in. apart throughout the area of compacted soil under the tree crown.
- Fertilization:

- Fertilize trees in the late fall or early spring. Although to note, many native species do not require fertilization.

- Apply fertilizer to the soil over the feeder roots and in accordance with label instructions, but never closer than 3 ft to the trunk. Increase the fertilized area by one-fourth of the crown area for conifers that have extended root systems.

- Retain protective measures until all other construction activity is complete to avoid damage during site cleanup and stabilization.

References

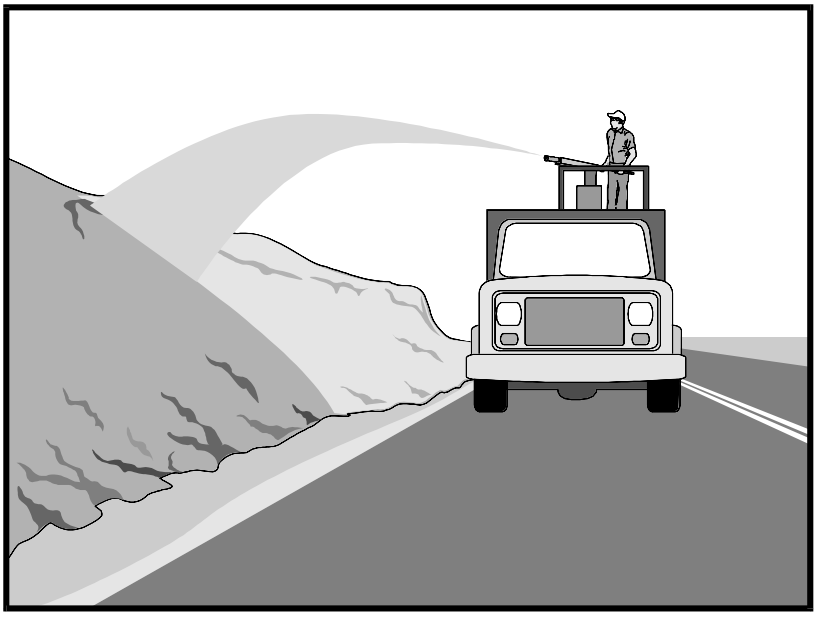
County of Sacramento Tree Preservation Ordinance, September 1981.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

Water Quality Management Plan for The Lake Tahoe Region, Volume II, Handbook of Management Practices, Tahoe Regional Planning Agency, November 1988.

Hydraulic Mulch EC-3



Categories		
EC	Erosion Control	☑
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	☒
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ **Primary Category**
☒ **Secondary Category**

Description and Purpose

Hydraulic Mulch consists of various types of fibrous materials mixed with water and sprayed onto the soil surface in slurry form to provide a layer of temporary protection from wind and water erosion.

Suitable Applications

Hydraulic mulch as a temporary, stand alone, erosion control BMP is suitable for disturbed areas that require temporary protection from wind and water erosion until permanent soil stabilization activities commence. Examples include:

- Rough-graded areas that will remain inactive for longer than permit-required thresholds (e.g., 14 days) or otherwise require stabilization to minimize erosion or prevent sediment discharges.
- Soil stockpiles.
- Slopes with exposed soil between existing vegetation such as trees or shrubs.
- Slopes planted with live, container-grown vegetation or plugs.
- Slopes burned by wildfire.
- To stabilize earthen berms
- Areas seeded by broadcasting or drilling

Targeted Constituents	
Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives
EC-4 Hydroseeding
EC-5 Soil Binders
EC-6 Straw Mulch
EC-7 Geotextiles and Mats
EC-8 Wood Mulching
EC-14 Compost Blanket
EC-16 Non-Vegetative Stabilization

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- Temporary stabilization during high wind conditions

Hydraulic mulch can also be applied to augment other erosion control BMPs such as:

- In conjunction with straw mulch (see EC-6 Straw Mulch) where the rate of hydraulic mulch is reduced to 100-500 lbs per acre and the slurry is applied over the straw as a tackifying agent to hold the straw in place.
- Supplemental application of soil amendments, such as fertilizer, lime, gypsum, soil bio-stimulants or compost.

Limitations

In general, hydraulic mulch is not limited by slope length, gradient or soil type. However, the following limitations typically apply:

- Most hydraulic mulch applications, particularly bonded fiber matrices (BFMs), require at least 24 hours to dry before rainfall occurs.
- Temporary applications (i.e., without a vegetative component) may require a second application in order to remain effective for an entire rainy season.
- Treatment areas must be accessible to hydraulic mulching equipment.
- Availability of water sources in remote areas for mixing and application.
- As a stand-alone temporary BMP, hydraulic mulches may need to be re-applied to maintain their erosion control effectiveness, typically after 6-12 months depending on the type of mulch used.
- Availability of hydraulic mulching equipment may be limited just prior to the rainy season and prior to storms due to high demand.
- Cellulose fiber mulches alone may not perform well on steep slopes or in course soils.
- This BMP consists of a mixture of several constituents (e.g., fibers/mulches, compost, tackifiers, and other chemical constituents), some of which may be proprietary and may come pre-mixed by the manufacturer. The water quality impacts of these constituents are relatively unknown, and some may have water quality impacts due to their chemical makeup. Refer to specific chemical properties identified in the product Safety Data Sheet (may not include ecological information); products should be evaluated for project-specific implementation by the SWPPP Preparer. Refer to factsheet EC-05 for further guidance on selecting soil binders.
- A water supply is needed to refill hydro mulch equipment tank.
- Cannot be disturbed by walking or driving on the surface after application.
- Recommend using in conjunction with other BMPs (i.e., fiber rolls, etc.).

Implementation

- Where feasible, it is preferable to prepare soil surfaces prior to application by roughening embankments and fill areas with a crimping or punching type roller or by track walking.
- The majority of hydraulic mulch applications do not necessarily require surface/soil preparation (See EC-15 Soil Preparation) although in almost every case where re-vegetation is included as part of the practice, soil preparation can be beneficial. One of the advantages of hydraulic mulch over other erosion control methods is that it can be applied in areas where soil preparation is precluded by site conditions, such as steep slopes, rocky soils, or inaccessibility.
- Avoid mulch over spray onto roads, sidewalks, drainage channels, existing vegetation, etc.
- Hydraulic mulching is generally performed utilizing specialized machines that have a large water-holding/mixing tank and some form of mechanical agitation or other recirculation method to keep water, mulch and soil amendments in suspension. The mixed hydraulic slurry can be applied from a tower sprayer on top of the machine or by extending a hose to areas remote from the machine.
- Where possible apply hydraulic mulch from multiple directions to adequately cover the soil. Application from a single direction can result in shadowing, uneven coverage and failure of the BMP.
- Hydraulic mulch can also include a vegetative component, such as seed, rhizomes, or stolons (see EC-4 Hydraulic Seed).
- Typical hydraulic mulch application rates range from 2,000 pounds per acre for standard mulches (SMs) to 3,500 lbs. per acre for BFMs. However, the required amount of hydraulic mulch to provide adequate coverage of exposed topsoil may appear to exceed the standard rates when the roughness of the soil surface is changed due to soil preparation methods (see EC-15 Soil Preparation) or by slope gradient.
- Other factors such as existing soil moisture and soil texture can have a profound effect on the amount of hydraulic mulch required (i.e. application rate) applied to achieve an erosion-resistant covering.
- Avoid use of mulch without a tackifier component, especially on slopes.
- Mulches used in the hydraulic mulch slurry can include:
  - Cellulose fiber (paper- or corn-based)
  - Wood fibers
  - Cotton
  - Synthetics
  - Compost (see EC-14, Compost Blanket)
  - Straw

- Additional guidance on the comparison and selection of temporary slope stabilization methods is provided in Appendix F of the Handbook.

Categories of Hydraulic Mulches

Standard Hydraulic Mulch (SM)

Standard hydraulic mulches are generally applied at a rate of 2,000 lbs. per acre and are manufactured containing around 5% tackifier (i.e. soil binder), usually a plant-derived guar or psyllium type. Most standard mulches are green in color derived from food-color based dyes.

Hydraulic Matrices (HM) and Stabilized Fiber Matrices (SFM)

Hydraulic matrices and stabilized fiber matrices are slurries which contain increased levels of tackifiers/soil binders; usually 10% or more by weight. HMs and SFMs have improved performance compared to a standard hydraulic mulch (SM) because of the additional percentage of tackifier and because of their higher application rates, typically 2,500 – 4,000 lbs. per acre. Hydraulic matrices can include a mixture of fibers, for example, a 50/50 blend of paper and wood fiber. In the case of an SFM, the tackifier/soil binder is specified as a polyacrylamide (PAM).

Bonded Fiber Matrix (BFM)

Bonded fiber matrices (BFMs) are hydraulically-applied systems of fibers, adhesives (typically guar- or polymer-based) and chemical cross-links. Upon drying, the slurry forms an erosion-resistant blanket that prevents soil erosion and promotes vegetation establishment. The cross-linked adhesive in the BFM should be biodegradable and should not dissolve or disperse upon re-wetting. BFMs are typically applied at rates from 3,000 to 4,000 lbs. per acre based on the manufacturer's recommendation. BFMs should not be applied immediately before, during or immediately after rainfall or if the soil is saturated. Depending on the product, BFMs typically require 12 to 24 hours to dry and become effective.

Hydraulic Compost Matrix (HCM)

Hydraulic compost matrix (HCM) is a field-derived practice whereby finely graded or sifted compost is introduced into the hydraulic mulch slurry. A guar-type tackifier can be added for steeper slope applications as well as any specified seed mixtures. An HCM can help to accelerate seed germination and growth. HCMs are particularly useful as an in-fill for three-dimensional re-vegetation geocomposites, such as turf reinforcement mats (TRM) (see EC-7 Geotextiles and Mats).

Costs

Average installed costs for hydraulic mulch categories are is provided in Table 1, below.

Table
HYDRAULIC MULCH BMPs
INSTALLED COSTS

BMP	Installed Cost/Acre
Standard Hydraulic Mulching (SM)	$2,100 - $4,700 per acre
Hydraulic Matrices (HM) and Stabilized Fiber Matrices	
Guar-based	$2,600 - $5,200 per acre
PAM-based	$3,200 - $7,200 per acre
Bonded Fiber Matrix (BFM)	$5,000 - $8,800 per acre
Hydraulic Compost Matrix (HCM)	$3,800 - $4,500 per acre

Source: Cost information received from individual product manufacturers solicited by Geosyntec Consultants (2004). Adjusted for inflation (2016 dollars) by Tetra Tech, Inc.

Inspection and Maintenance

- Maintain an unbroken, temporary mulched ground cover throughout the period of construction when the soils are not being reworked.
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Areas where erosion is evident should be repaired and BMPs re-applied as soon as possible. Care should be exercised to minimize the damage to protected areas while making repairs, as any area damaged will require re-application of BMPs.
- Compare the number of bags or weight of applied mulch to the area treated to determine actual application rates and compliance with specifications.

References

Soil Stabilization BMP Research for Erosion and Sediment Controls: Cost Survey Technical Memorandum, State of California Department of Transportation (Caltrans), July 2007.

Controlling Erosion of Construction Sites, Agricultural Information #347, U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service – SCS).

Guides for Erosion and Sediment Control in California, USDA Soils Conservation Service, January 1991.

Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

Sedimentation and Erosion Control, an Inventory of Current Practices Draft, US EPA, April 1990.

Soil Erosion by Water, Agriculture Information Bulletin #513, U.S. Department of Agriculture, Soil Conservation Service.

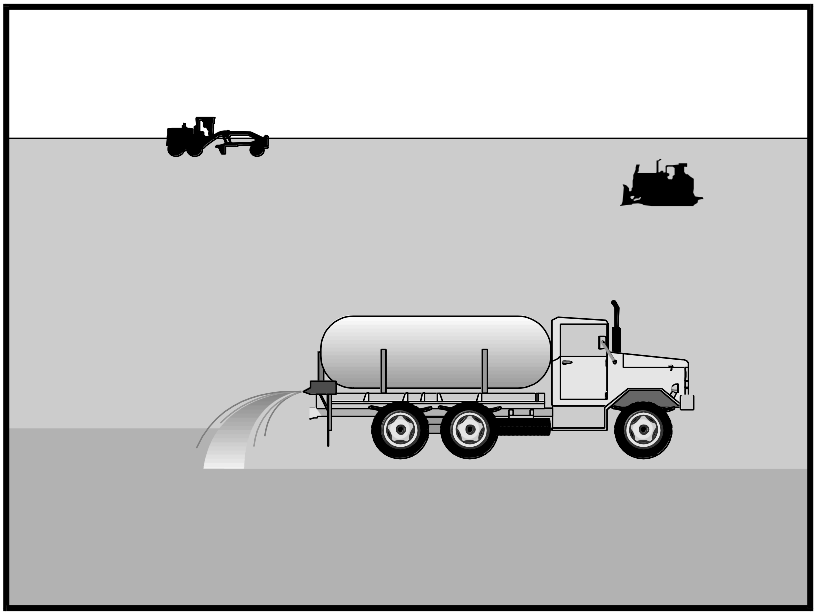
Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Guidance Document: Soil Stabilization for Temporary Slopes, State of California Department of Transportation (Caltrans), November 1999

Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

Water Quality Management Plan for the Lake Tahoe Region, Volume II, Handbook of Management Practices, Tahoe Regional Planning Agency, November 1988.

Soil Binders EC-5



Categories

EC	Erosion Control	☑
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	☒
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

EC-3 Hydraulic Mulch

EC-4 Hydroseeding

EC-6 Straw Mulch

EC-7 Geotextiles and Mats

EC-8 Wood Mulching

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Description and Purpose

Soil binding consists of application and maintenance of a soil stabilizer to exposed soil surfaces. Soil binders are materials applied to the soil surface to temporarily prevent water and wind induced erosion of exposed soils on construction sites.

Suitable Applications

Soil binders are typically applied to disturbed areas requiring temporary protection. Because soil binders, when used as a stand-alone practice, can often be incorporated into the soil, they are a good alternative to mulches in areas where grading activities will soon resume. Soil binders are commonly used in the following areas:

- Rough graded soils that will be inactive for a short period of time.
- Soil stockpiles.
- Temporary haul roads prior to placement of crushed rock.
- Compacted soil road base.
- Construction staging, materials storage, and layout areas.
- Slopes and areas requiring stabilization prior to rain.
- Disturbed areas subject to high winds.

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Limitations

- Soil binders are temporary in nature and may need reapplication.
- Soil binders require a minimum curing time until fully effective, as prescribed by the manufacturer. Curing time may be 24 hours or longer. Soil binders may need reapplication after a storm event.
- Soil binders will generally experience spot failures during heavy rainfall events. If runoff penetrates the soil at the top of a slope treated with a soil binder, it is likely that the runoff will undercut the stabilized soil layer and discharge at a point further down slope.
- Plant-material-based soil binders do not generally hold up to pedestrian or vehicular traffic across treated areas as well as polymeric emulsion blends or cementitious-based binders.
- Soil binders may not sufficiently penetrate compacted soils.
- Some soil binders are soil texture specific in terms of their effectiveness. For example, polyacrylamides (PAMs) work very well on silt and clayey soils but their performance decreases dramatically in sandy soils.
- Some soil binders may not perform well with low relative humidity. Under rainy conditions, some agents may become slippery or leach out of the soil.
- Soil binders may not cure if low temperatures occur within 24 hours of application.
- The water quality impacts of some chemical soil binders are relatively unknown, and some may have water quality impacts due to their chemical makeup. Additionally, these chemicals may require non-visible pollutant monitoring. Products should be evaluated for project-specific implementation by the SWPPP Preparer. Refer to the product Material Safety Data Sheet for chemical properties.

Implementation

General Considerations

- Soil binders should conform to local municipality specifications and requirements.
- Site soil types will dictate appropriate soil binders to be used.
- A soil binder must be environmentally benign (non-toxic to plant and animal life), easy to apply, easy to maintain, economical, and should not stain paved or painted surfaces. Soil binders should not pollute stormwater when cured. Obtain a Safety Data Sheet (SDS) from the manufacturer to ensure non-toxicity (note however, the SDS may not include ecological information).
- Stormwater runoff from PAM treated soils should pass through one of the following sediment control BMP prior to discharging to surface waters.
    - When the total drainage area is greater than or equal to 5 acres, PAM treated areas should drain to a sediment basin.

- Areas less than 5 acres should drain to sediment control BMPs, such as a sediment trap, or a series of check dams. The total number of check dams used should be maximized to achieve the greatest amount of settlement of sediment prior to discharging from the site. Each check dam should be spaced evenly in the drainage channel through which stormwater flows are discharged off site.

- Performance of soil binders depends on temperature, humidity, and traffic across treated areas.
- Avoid over spray onto roads, sidewalks, drainage channels, existing vegetation, etc.
- Some soil binders are designed for application to roads.
- Additional guidance on the comparison and selection of temporary slope stabilization methods is provided in Appendix F of the Handbook.

Selecting a Soil Binder

Properties of common soil binders used for erosion control are provided on Table 1 at the end of this Fact Sheet. Use Table 1 to select an appropriate soil binder. Refer to WE-1, Wind Erosion Control, for dust control soil binders.

Factors to consider when selecting a soil binder include the following:

- Suitability to situation - Consider where the soil binder will be applied, if it needs a high resistance to leaching or abrasion, and whether it needs to be compatible with any existing vegetation. Determine the length of time soil stabilization will be needed, and if the soil binder will be placed in an area where it will degrade rapidly. In general, slope steepness is not a discriminating factor for the listed soil binders.
- Soil types and surface materials - Fines and moisture content are key properties of surface materials. Consider a soil binder's ability to penetrate, likelihood of leaching, and ability to form a surface crust on the surface materials.
- Frequency of application - The frequency of application is related to the functional longevity of the binder, which can be affected by subgrade conditions, surface type, climate, and maintenance schedule.
- Frequent applications could lead to high costs. Application frequency may be minimized if the soil binder has good penetration, low evaporation, and good longevity. Consider also that frequent application will require frequent equipment clean up.

Plant-Material-Based (Short Lived, <6 months) Binders

Guar: Guar is a non-toxic, biodegradable, natural galactomannan-based hydrocolloid treated with dispersant agents for easy field mixing. It should be mixed with water at the rate of 11 to 15 lb per 1,000 gallons. Recommended minimum application rates are as follows:

Application Rates for Guar Soil Stabilizer

Slope (H:V):	Flat	4:1	3:1	2:1	1:1
lb/acre:	40	45	50	60	70

Psyllium: Psyllium is composed of the finely ground muciloid coating of plantago seeds that is applied as a dry powder or in a wet slurry to the surface of the soil. It dries to form a firm but rewettable membrane that binds soil particles together but permits germination and growth of seed. Psyllium requires 12 to 18 hours drying time. Application rates should be from 80 to 200 lb/acre, with enough water in solution to allow for a uniform slurry flow.

Starch: Starch is non-ionic, cold water soluble (pre-gelatinized) granular cornstarch. The material is mixed with water and applied at the rate of 150 lb/acre. Approximate drying time is 9 to 12 hours.

Plant-Material-Based (Long Lived, 6-12 months) Binders

Pitch and Rosin Emulsion: Generally, a non-ionic pitch and rosin emulsion has a minimum solids content of 48%. The rosin should be a minimum of 26% of the total solids content. The soil stabilizer should be non-corrosive, water dilutable emulsion that upon application cures to a water insoluble binding and cementing agent. For soil erosion control applications, the emulsion is diluted and should be applied as follows:

- For clayey soil: 5 parts water to 1-part emulsion
- For sandy soil: 10 parts water to 1-part emulsion

Application can be by water truck or hydraulic seeder with the emulsion and product mixture applied at the rate specified by the manufacturer.

Polymeric Emulsion Blend Binders

Acrylic Copolymers and Polymers: Polymeric soil stabilizers should consist of a liquid or solid polymer or copolymer with an acrylic base that contains a minimum of 55% solids. The polymeric compound should be handled and mixed in a manner that will not cause foaming or should contain an anti-foaming agent. The polymeric emulsion should not exceed its shelf life or expiration date; manufacturers should provide the expiration date. Polymeric soil stabilizer should be readily miscible in water, non-injurious to seed or animal life, non-flammable, should provide surface soil stabilization for various soil types without totally inhibiting water infiltration, and should not re-emulsify when cured. The applied compound typically requires 12 to 24 hours drying time. Liquid copolymer should be diluted at a rate of 10 parts water to 1-part polymer and the mixture applied to soil at a rate of 1,175 gallons/acre.

Liquid Polymers of Methacrylates and Acrylates: This material consists of a tackifier/sealer that is a liquid polymer of methacrylates and acrylates. It is an aqueous 100% acrylic emulsion blend of 40% solids by volume that is free from styrene, acetate, vinyl, ethoxylated surfactants or silicates. For soil stabilization applications, it is diluted with water in accordance with the manufacturer's recommendations and applied with a hydraulic seeder at the rate of 20 gallons/acre. Drying time is 12 to 18 hours after application.

Copolymers of Sodium Acrylates and Acrylamides: These materials are non-toxic, dry powders that are copolymers of sodium acrylate and acrylamide. They are mixed with water and applied to the soil surface for erosion control at rates that are determined by slope gradient:

Slope Gradient (H:V)	lb/acre
Flat to 5:1	3.0 – 5.0
5:1 to 3:1	5.0 – 10.0
2:1 to 1:1	10.0 – 20.0

Poly-Acrylamide (PAM) and Copolymer of Acrylamide**:** Linear copolymer polyacrylamide for use as a soil binder is packaged as a dry flowable solid, as a liquid. Refer to the manufacturer's recommendation for dilution and application rates as they vary based on liquid or dry form, site conditions and climate.

- Limitations specific to PAM are as follows:
  - Do not use PAM on a slope that flows into a water body without passing through a sediment trap or sediment basin.
  - The specific PAM copolymer formulation must be anionic. Cationic PAM should not be used in any application because of known aquatic toxicity problems. Only the highest drinking water grade PAM, certified for compliance with ANSI/NSF Standard 60 for drinking water treatment, should be used for soil applications.
  - PAM designated for erosion and sediment control should be "water soluble" or "linear" or "non-cross linked".
  - PAM should not be used as a stand-alone BMP to protect against water-based erosion. When combined with mulch, its effectiveness increases dramatically.

Hydro-Colloid Polymers: Hydro-Colloid Polymers are various combinations of dry flowable poly-acrylamides, copolymers and hydro-colloid polymers that are mixed with water and applied to the soil surface at rates of 55 to 60 lb/acre. Drying times are 0 to 4 hours.

Cementitious-Based Binders

Gypsum: This is a formulated gypsum-based product that readily mixes with water and mulch to form a thin protective crust on the soil surface. It is composed of high purity gypsum that is ground, calcined and processed into calcium sulfate hemihydrate with a minimum purity of 86%. It is mixed in a hydraulic seeder and applied at rates 4,000 to 12,000 lb/acre. Drying time is 4 to 8 hours.

Applying Soil Binders

After selecting an appropriate soil binder, the untreated soil surface must be prepared before applying the soil binder. The untreated soil surface must contain sufficient moisture to assist the agent in achieving uniform distribution. In general, the following steps should be followed:

- Follow manufacturer's written recommendations for application rates, pre-wetting of application area, and cleaning of equipment after use.
- Prior to application, roughen embankment and fill areas.
- Consider the drying time for the selected soil binder and apply with sufficient time before anticipated rainfall. Soil binders should not be applied during or immediately before rainfall.
- Avoid over spray onto roads, sidewalks, drainage channels, sound walls, existing vegetation, etc.

- Soil binders should not be applied to frozen soil, areas with standing water, under freezing or rainy conditions, or when the temperature is below 40°F during the curing period.
- More than one treatment is often necessary, although the second treatment may be diluted or have a lower application rate.
- Generally, soil binders require a minimum curing time of 24 hours before they are fully effective. Refer to manufacturer's instructions for specific cure time.
- For liquid agents:
  - Crown or slope ground to avoid ponding.
  - Uniformly pre-wet ground at 0.03 to 0.3 gal/yd^2 or according to manufacturer's recommendations.
  - Apply solution under pressure. Overlap solution 6 to 12 in.
  - Allow treated area to cure for the time recommended by the manufacturer; typically, at least 24 hours.
  - Apply second treatment before first treatment becomes ineffective, using 50% application rate.
  - In low humidities, reactivate chemicals by re-wetting with water at 0.1 to 0.2 gal/yd^2.

Costs

Costs vary according to the soil stabilizer selected for implementation. The following are approximate installed costs:

Soil Binder	Cost per Acre
Plant-Material-Based (Short Lived) Binders	$900-$1,200
Plant-Material-Based (Long Lived) Binders	$1,500-$1,900
Polymeric Emulsion Blend Binders	$900-$1,900
Cementitious-Based Binders	$1,000-$1,500

Source: Cost information received from individual product manufacturers solicited by Geosyntec Consultants (2004). Adjusted for inflation (2016 dollars) by Tetra Tech Inc.

Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Areas where erosion is evident should be repaired and BMPs re-applied as soon as possible. Care should be exercised to minimize the damage to protected areas while making repairs, as any area damaged will require re-application of BMPs.

- Reapply the selected soil binder as needed to maintain effectiveness.

Table 1 Properties of Soil Binders for Erosion Control

Evaluation Criteria	Binder Type			
	Plant Material Based (Short Lived)	**Plant Material Based (Long Lived)**	**Polymeric Emulsion Blends**	**Cementitious-Based Binders**
Relative Cost	Low	Moderate to High	Low to High	Low to Moderate
Resistance to Leaching	High	High	Low to Moderate	Moderate
Resistance to Abrasion	Moderate	Low	Moderate to High	Moderate to High
Longevity	Short to Medium	Medium	Medium to Long	Medium
Minimum Curing Time before Rain	9 to 18 hours	19 to 24 hours	0 to 24 hours	4 to 8 hours
Compatibility with Existing Vegetation	Good	Poor	Poor	Poor
Mode of Degradation	Biodegradable	Biodegradable	Photodegradable/ Chemically Degradable	Photodegradable/ Chemically Degradable
Labor Intensive	No	No	No	No
Specialized Application Equipment	Water Truck or Hydraulic Mulcher	Water Truck or Hydraulic Mulcher	Water Truck or Hydraulic Mulcher	Water Truck or Hydraulic Mulcher
Liquid/Powder	Powder	Liquid	Liquid/Powder	Powder
Surface Crusting	Yes, but dissolves on rewetting	Yes	Yes, but dissolves on rewetting	Yes
Clean Up	Water	Water	Water	Water
Erosion Control Application Rate	Varies (1)	Varies (1)	Varies (1)	4,000 to 12,000 lbs/acre

(1) See Implementation for specific rates.

References

Erosion Control Pilot Study Report, State of California Department of Transportation (Caltrans), June 2000.

Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

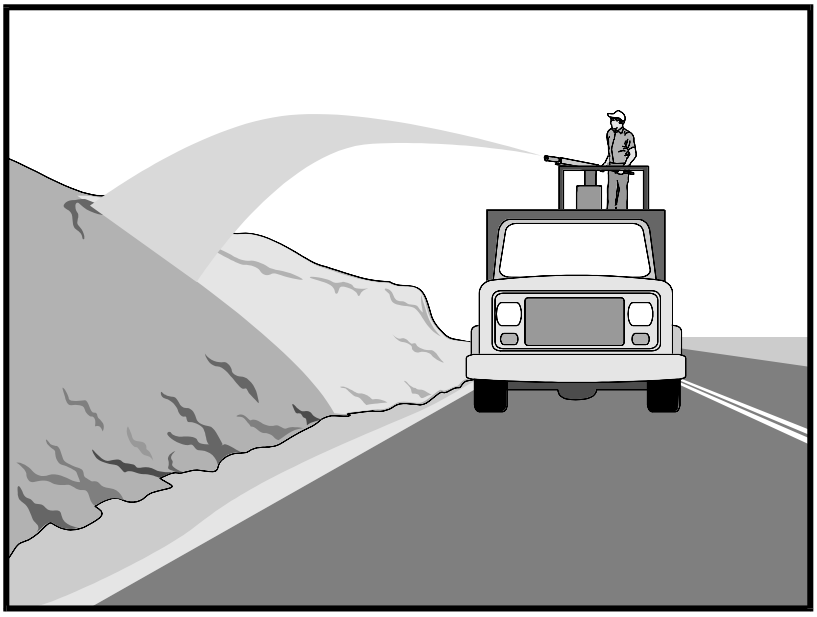
Sedimentation and Erosion Control, An Inventory of Current Practices Draft, US EPA, April 1990.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Guidance Document: Soil Stabilization for Temporary Slopes, State of California Department of Transportation (Caltrans), November 1999.

Stormwater Management for Construction Activities, Developing Pollution Prevention Plans and Best Management Practices, EPA 832-R-92005; USEPA, April 1992.

Straw Mulch EC-6



Categories		
EC	Erosion Control	☑
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	☒
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ **Primary Category**
☒ **Secondary Category**

Description and Purpose

Straw mulch consists of placing a uniform layer of straw and incorporating it into the soil with a studded roller or crimper or anchoring it with a tackifier or stabilizing emulsion. Straw mulch protects the soil surface from the impact of rain drops, preventing soil particles from becoming dislodged.

Suitable Applications

Straw mulch is suitable for disturbed areas requiring temporary protection until permanent stabilization is established. Straw mulch can be specified for the following applications:

- As a stand-alone BMP on disturbed areas until soils can be prepared for permanent vegetation. The longevity of straw mulch is typically less than six months.
- Applied in combination with temporary seeding strategies
- Applied in combination with permanent seeding strategies to enhance plant establishment and final soil stabilization
- Applied around containerized plantings to control erosion until the plants become established to provide permanent stabilization

Limitations

Availability of straw and straw blowing equipment may be limited just prior to the rainy season and prior to storms due to high demand.

Targeted Constituents	
Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives
EC-3 Hydraulic Mulch
EC-4 Hydroseeding
EC-5 Soil Binders
EC-7 Geotextiles and Mats
EC-8 Wood Mulching
EC-14 Compost Blanket

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- There is a potential for introduction of weed seed and unwanted plant material if weed-free agricultural straw is not specified.
- Straw mulch applied by hand is more time intensive and potentially costly.
- Wind may limit application of straw and blow straw into undesired locations.
- May have to be removed prior to permanent seeding or prior to further earthwork.
- "Punching" of straw does not work in sandy soils, necessitating the use of tackifiers.
- Potential fugitive dust control issues associated with straw applications can occur. Application of a stabilizing emulsion or a water stream at the same time straw is being blown can reduce this problem.
- Use of plastic netting should be avoided in areas where wildlife may be entrapped and may be prohibited for projects in certain areas with sensitive wildlife species, especially reptiles and amphibians.

Implementation

- Straw should be derived from weed-free wheat, rice, or barley. Where required by the plans, specifications, permits, or environmental documents, native grass straw should be used.
- Use tackifier to anchor straw mulch to the soil on slopes.
- Crimping, punch roller-type rollers, or track walking may also be used to incorporate straw mulch into the soil on slopes. Track walking can be used where other methods are impractical.
- Avoid placing straw onto roads, sidewalks, drainage channels, sound walls, existing vegetation, etc.
- Straw mulch with tackifier should not be applied during or immediately before rainfall.
- Additional guidance on the comparison and selection of temporary slope stabilization methods is provided in Appendix F of the Handbook.

Application Procedures

- When using a tackifier to anchor the straw mulch, roughen embankment or fill areas by rolling with a crimping or punching-type roller or by track walking before placing the straw mulch. Track walking should only be used where rolling is impractical.
- Apply straw at a rate of between 3,000 and 4,000 lb./acre, either by machine or by hand distribution and provide 100% ground cover. A lighter application is used for flat surfaces and a heavier application is used for slopes.
- Evenly distribute straw mulch on the soil surface.
- Anchoring straw mulch to the soil surface by "punching" it into the soil mechanically (incorporating) can be used in lieu of a tackifier.

- Methods for holding the straw mulch in place depend upon the slope steepness, accessibility, soil conditions, and longevity.

  - A tackifier acts to glue the straw fibers together and to the soil surface. The tackifier should be selected based on longevity and ability to hold the fibers in place. A tackifier is typically applied at a rate of 125 lb./acre. In windy conditions, the rates are typically 180 lb./acre.

  - On very small areas, a spade or shovel can be used to punch in straw mulch.

  - On slopes with soils that are stable enough and of sufficient gradient to safely support construction equipment without contributing to compaction and instability problems, straw can be "punched" into the ground using a knife blade roller or a straight bladed coulter, known commercially as a "crimper."

Costs

Average annual cost for installation and maintenance is included in the table below. Application by hand is more time intensive and potentially more costly.

BMP	Unit Cost per Acre
Straw mulch, crimped or punched	$3,150-$6,900
Straw mulch with tackifier	$2,300-$6,200

Source: Cost information received from individual product suppliers solicited by Geosyntec Consultants (2004). Adjusted for inflation (2016 dollars) by Tetra Tech, Inc.

Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

- Areas where erosion is evident should be repaired and BMPs re-applied as soon as possible. Care should be exercised to minimize the damage to protected areas while making repairs, as any area damaged will require re-application of BMPs.

- The key consideration in inspection and maintenance is that the straw needs to last long enough to achieve erosion control objectives. Straw mulch as a stand-alone BMP is temporary and is not suited for long-term erosion control.

- Maintain an unbroken, temporary mulched ground cover while disturbed soil areas are inactive. Repair any damaged ground cover and re-mulch exposed areas.

- Reapplication of straw mulch and tackifier may be required to maintain effective soil stabilization over disturbed areas and slopes.

References

Soil Stabilization BMP Research for Erosion and Sediment Controls: Cost Survey Technical Memorandum, State of California Department of Transportation (Caltrans), July 2007.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.

Controlling Erosion of Construction Sites, Agricultural Information Bulletin #347, U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) (formerly Soil Conservation Service – SCS).

Guides for Erosion and Sediment Control in California, USDA Soils Conservation Service, January 1991.

Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

Soil Erosion by Water, Agricultural Information Bulletin #513, U.S. Department of Agriculture, Soil Conservation Service.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

Water Quality Management Plan for the Lake Tahoe Region, Volume II, Handbook of Management Practices, Tahoe Regional Planning Agency, November 1988.

Soil Preparation/Roughening EC-15

D

Soil Preparation/Roughening involves assessment and preparation of surface soils for BMP installation. This can include soil testing (for seed base, soil characteristics, or nutrients), as well as roughening surface soils by mechanical methods (including sheepsfoot rolling, track walking, scarifying, stair stepping, and imprinting) to prepare soil for additional BMPs, or to break up sheet flow. Soil Preparation can also involve tilling topsoil to prepare a seed bed and/or incorporation of soil amendments, to enhance vegetative establishment.

Suitable Applications

Soil preparation: Soil preparation is essential to proper vegetative establishment. In particular, soil preparation (i.e. tilling, raking, and amendment) is suitable for use in combination with any soil stabilization method, including Rolled Erosion Control Products (RECPs) or sod. Soil preparation should not be confused with roughening.

Roughening: Soil roughening is generally referred to as track walking (sometimes called imprinting) a slope, where treads from heavy equipment run parallel to the contours of the slope and act as mini terraces. Soil preparation is most effective when used in combination with erosion controls. Soil Roughening is suitable for use as a complementary process for controlling erosion on a site. Roughening is not intended to be used as a stand-alone BMP, and should be used with perimeter controls, additional erosion control measures, grade breaks, and vegetative establishment for maximum effectiveness. Roughening is intended to only affect surface soils and should not compromise slope stability or overall compaction. Suitable applications for soil roughening include:

Categories

EC	Erosion Control	☑
SE	Sediment Control	☒
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

EC-3 Hydraulic Mulch

EC-5 Soil Binders

EC-7 Geotextiles and Mats

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- Along any disturbed slopes, including temporary stockpiles, sediment basins, or compacted soil diversion berms and swales.

- Roughening should be used in combination with hydraulically applied stabilization methods, compost blanket, or straw mulch; but should not be used in combination with RECPs or sod because roughening is intended to leave terraces on the slope.

Limitations

- Preparation and roughening must take place prior to installing other erosion controls (such as hydraulically applied stabilizers) or sediment controls (such as fiber rolls) on the faces of slopes.

- In such cases where slope preparation is minimal, erosion control/revegetation BMPs that do not require extensive soil preparation - such as hydraulic mulching and seeding applications - should be employed.

- Consideration should be given to the type of erosion control BMP that follows surface preparation, as some BMPs are not designed to be installed over various types of tillage/roughening, i.e., RECPs should not be used with soil roughening due to a "bridging" effect, which suspends the blanket above the seed bed.

- Surface roughness has an effect on the amount of mulch material that needs to be applied, which shows up as a general increase in mulch material due to an increase in surface area (Topographic Index -see EC-3 Hydraulic Mulch).

Implementation

- Additional guidance on the comparison and selection of temporary slope stabilization methods is provided in Appendix F of the Handbook.

General

A roughened surface can significantly reduce erosion. Based on tests done at the San Diego State Erosion Research Laboratory, various roughening techniques on slopes can result in a 12 - 76% reduction in the erosion rate versus smooth slopes.

Materials

Minimal materials are required unless amendments and/or seed are added to the soil. The majority of soil roughening/preparation can be done with equipment that is on hand at a normal construction site, such as bull dozers and compaction equipment.

Installation Guidelines

Soil Preparation

- Where appropriate or feasible, soil should be prepared to receive the seed by disking or otherwise scarifying the surface to eliminate crust, improve air and water infiltration and create a more favorable environment for germination and growth.

- Based upon soil testing conducted, apply additional soil amendments (e.g., fertilizers, additional seed) to the soil to help with germination. Follow EC-4, Hydroseeding, when selecting and applying seed and fertilizers.

Cut Slope Roughening:

- Stair-step grade or groove the cut slopes that are steeper than 3:1.
- Use stair-step grading on any erodible material soft enough to be ripped with a bulldozer. Slopes consisting of soft rock with some subsoil are particularly suited to stair-step grading.
- Make the vertical cut distance less than the horizontal distance, and slightly slope the horizontal position of the "step" in toward the vertical wall.
- Do not make individual vertical cuts more than 2 ft. (0.6 m) high in soft materials or more than 3 ft. (0.9 m) high in rocky materials.
- Groove the slope using machinery to create a series of ridges and depressions that run across the slope, on the contour.

Fill Slope Roughening:

- Place on fill slopes with a gradient steeper than 3:1 in lifts not to exceed 8 in. (0.2 m), and make sure each lift is properly compacted.
- Ensure that the face of the slope consists of loose, uncompacted fill 4-6 in. (0.1-0.2 m) deep.
- Use grooving or tracking to roughen the face of the slopes, if necessary.
- Do not blade or scrape the final slope face.

Roughening for Slopes to be Mowed:

- Slopes that require mowing activities should not be steeper than 3:1.
- Roughen these areas to shallow grooves by track walking, scarifying, sheepsfoot rolling, or imprinting.
- Make grooves close together (less than 10 in.), and not less than 1 in. deep, and perpendicular to the direction of runoff (i.e., parallel to the slope contours).
- Excessive roughness is undesirable where mowing is planned.

Roughening with Tracked Machinery:

- Limit roughening with tracked machinery to soils with a sandy textural component to avoid undue compaction of the soil surface.
- Operate tracked machinery up and down the slope to leave horizontal depressions in the soil. Do not back-blade during the final grading operation.
- Seed and mulch roughened areas as soon as possible to obtain optimum seed germination and growth.

Costs

Costs are based on the additional labor of tracking or preparation of the slope plus the cost of any required soil amendment materials.

Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Check the seeded slopes for signs of erosion such as rills and gullies. Fill these areas slightly above the original grade, then reseed and mulch as soon as possible.
- Inspect BMPs weekly during normal operations, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

References

Soil Stabilization BMP Research for Erosion and Sediment Controls: Cost Survey Technical Memorandum, State of California Department of Transportation (Caltrans), July 2007.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.

Non-Vegetative Stabilization EC-16

Categories

EC	Erosion Control	☑
SE	Sediment Control	☒
TR	Tracking Control	
WE	Wind Erosion Control	☒
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

None

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Description and Purpose

Non-vegetative stabilization methods are used for temporary or permanent stabilization of areas prone to erosion and should be used only where vegetative options are not feasible; examples include:

- Areas of vehicular or pedestrian traffic such as roads or paths;
- Arid environments where vegetation would not provide timely ground coverage, or would require excessive irrigation;
- Rocky substrate, infertile or droughty soils where vegetation would be difficult to establish; and
- Areas where vegetation will not grow adequately within the construction time frame.

There are several non-vegetative stabilization methods and selection should be based on site-specific conditions.

Decomposed Granite (DG) is a permanent erosion protection method that consists of a layer of stabilized decomposed granite placed over an erodible surface.

Degradable Mulches of various types (see EC-3, EC-6, EC-8) can be used for temporary non-vegetative stabilization; examples include straw mulch, compost, wood chips or hydraulic mulch.

Geotextiles and Mats can be used for temporary non-vegetative stabilization (see EC-7). These BMPs are typically manufactured from degradable or synthetic materials and are

designed and specified based on their functional longevity, i.e., how long they will persist and provide erosion protection. All geotextiles and mats should be replaced when they exceed their functional longevity or when permanent stabilization methods are instituted.

Gravel Mulch is a non-degradable erosion control product that is composed of washed and screened coarse to very coarse gravel, 16 mm to 64 mm (0.6" - 2.5"), similar to an AASHTO No. 3 coarse aggregate.

Rock Slope Protection consists of utilizing large rock or rip-rap (4"- 24") to stabilize slopes with a high erosion potential and those subject to scour along waterways.

Soil Binders can be used for temporary non-vegetative stabilization (see EC-5). The key to their use is functional longevity. In most cases, the soil binder will need to be routinely monitored and re-applied to maintain an erosion-resistant coverage.

Suitable Applications

Non-vegetated stabilization methods are suitable for use on disturbed soil areas and on material stockpiles that need to be temporarily or permanently protected from erosion by water and wind. Non-vegetated stabilization should only be utilized when vegetation cannot be established in the required timeframe, due to soil or climactic conditions, or where vegetation may be a potential fire hazard.

Decomposed Granite (DG) and Gravel Mulch are suitable for use in areas where vegetation establishment is difficult, on flat surfaces, trails and pathways, and when used in conjunction with a stabilizer or tackifier, on shallow slopes (i.e., 10:1 [H:V]). DG and gravel can also be used on shallow rocky slopes where vegetation cannot be established for permanent erosion control.

Degradable Mulches can be used to cover and protect soil surfaces from erosion both in temporary and permanent applications. In many cases, the use of mulches by themselves requires routine inspection and re-application. See EC-3 Hydraulic Mulch, EC-6 Straw Mulch, EC-8 Wood Mulch, or EC-14 Compost Blankets for more information.

Geotextiles and Mats can be used as a temporary stand-alone soil stabilization method. Depending on material selection, geotextiles and mats can be a short-term (3 mos – 1 year) or long-term (1-2 years) temporary stabilization method. For more information on geotextiles and mats see EC-7 Geotextiles and Mats.

Rock Slope Protection can be used when the slopes are subject to scour or have a high erosion potential, such as slopes adjacent to flowing waterways or slopes subject to overflow from detention facilities (spillways).

Soil Binders can be used for temporary stabilization of stockpiles and disturbed areas not subject to heavy traffic. See EC-5 Soil Binders for more information.

Limitations

General

- Refer to EC-3, EC-6, EC-8, and EC-14 for limitations on use of mulches. Refer to EC-7 for limitations on use of geotextiles and mats. Refer to EC-5 for limitations on use of Soil Binders.

Decomposed Granite

- Not available in some geographic regions.
- If not tackified, material may be susceptible to erosion even on slight slopes (e.g., 30:1 [H:V]).
- Installed costs may be more expensive than vegetative stabilization methods.

Gravel Mulch

- Availability is limited in some geographic regions.
- If not properly screened and washed, can contain fine material that can erode and/or create dust problems.
- If inadequately sized, material may be susceptible to erosion on sloped areas.
- Pore spaces fill with dirt and debris over time; may provide a growing medium for weeds.

Rock Slope Protection

- Installation is labor intensive.
- Installed costs can be significantly higher than vegetative stabilization methods.
- Rounded stones may not be used on slopes greater than 2:1 [H:V].

Implementation

General

Non-vegetated stabilization should be used in accordance with the following general guidance:

- Should be used in conjunction with other BMPs, including drainage, erosion controls and sediment controls.
- Refer to EC-3, EC-6, EC-8, and EC-14 for implementation details for mulches. Refer to EC-7 for implementation details for geotextiles and mats. Refer to EC-5 for implementation details for soil binders.
- Non-vegetated stabilization measures should be implemented as soon as the disturbance in the areas they are intended to protect has ceased.
- Additional guidance on the comparison and selection of temporary slope stabilization methods is provided in Appendix F of the Handbook.

Decomposed Granite Stabilization

- If used for a road or path should be installed on a prepared base.
- Should be mixed with a stabilizer if used for roads or pathways, or on slope applications.
- Though porous it is recommended to prevent standing water on or next to a decomposed granite road or pathway.

Gravel Mulch

- Should be sized based on slope, rainfall, and upgradient run-on conditions. Stone size should be increased as potential for erosion increases (steeper slopes, high intensity rainfall).
- If permanent, a weed control fabric should be placed prior to installation.
- Should be installed at a minimum 2" depth.
- Should completely cover all exposed surfaces.

Rock Slope Protection

- Rock slope protection installation should follow Caltrans Standard Specification 72-2: Rock Slope Protection. Refer to the specification for rock conformity requirements and installation methods.
- When using rock slope protection, rock size and installation method should be specified by an Engineer.
- A geotextile fabric should be placed prior to installation.

Costs

- Costs are highly variable depending not only on technique chosen, but also on materials chosen within specific techniques. In addition, availability of certain materials will vary by region/location, which will also affect the cost. Costs of mulches, geotextiles and mats, and soil binders are presented in their respective fact sheets. Costs for decomposed granite, gravel mulch stabilization and rock slope protection may be higher depending on location and availability of materials. Caltrans has provided an estimate for gravel mulch of \$13 - \$20/yd^2 in flat areas and \$14 - \$30/yd^2 on side slopes (adjusted for inflation, 2016 dollars).

Inspection and Maintenance

General

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- For permanent installation, require inspection periodically and after major storm events to look for signs of erosion or damage to the stabilization.
- All damage should be repaired immediately.
- Refer to EC-3, EC-6, EC-8, and EC-14 for inspection and maintenance requirements for mulches. Refer to EC-7 for inspection and maintenance requirements for geotextiles and mats. Refer to EC-5 for inspection and maintenance requirements for soil binders.

Decomposed Granite and Gravel Mulch Stabilization

- Rake out and add decomposed granite or gravel as needed to areas subject to rill erosion. Inspect upgradient drainage controls and repair/modify as necessary.

- Should remain stable under loose surface material. Any significant problem areas should be repaired to restore uniformity to the installation.

References

Arid Zone Forestry: A Guide for Field Technicians. Food and Agriculture Organization of the United Nations, 1989.

Design of Roadside Channels with Flexible Linings, Hydraulic Engineering Circular Number 15, Third Edition, Federal Highway Administration, 2007.

Design Standards for Urban Infrastructure - Soft Landscape Design, Department of Territory and Municipal Services - Australian Capital Territory http://www.tams.act.gov.au/work/standards_and_procedures/design_standards_for_urban_infrastructure

Erosion and Sediment Control Handbook: A Guide for Protection of State Waters through the use of Best Management Practices during Land Disturbing Activities, Tennessee Department of Environment and Conservation, 2002.

Gravel Mulch, Landscape Architecture Non-Standard Specification 10-2, California Department of Transportation (Caltrans), http://www.dot.ca.gov/hq/LandArch/roadside/detail-gm.htm

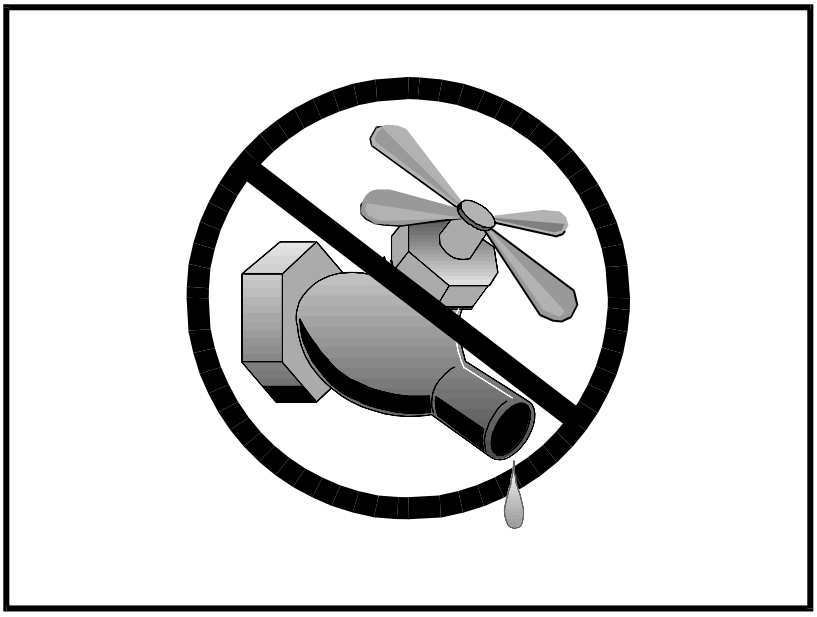
Maine Erosion and Sediment Control BMPs, DEPLW0588, Maine Department of Environmental Protection: Bureau of Land and Water Quality, 2003.

National Menu of Best Management Practices, US Environmental Protection Agency, 2006.

Standard Specification 72-2: Rock Slope Protection. California Department of Transportation, 2006.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Water Conservation Practices NS-1



Categories		
EC	Erosion Control	☒
SE	Sediment Control	☒
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	☑
WM	Waste Management and Materials Pollution Control	

Legend:
☑ **Primary Objective**
☒ **Secondary Objective**

Targeted Constituents	
Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

None

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Description and Purpose

Water conservation practices are activities that use water during the construction of a project in a manner that avoids causing erosion and the transport of pollutants offsite. These practices can reduce or eliminate non-stormwater discharges.

Suitable Applications

Water conservation practices are suitable for all construction sites where water is used, including piped water, metered water, trucked water, and water from a reservoir.

Limitations

- None identified.

Implementation

- Keep water equipment in good working condition.
- Stabilize water truck filling area.
- Repair water leaks promptly.
- Washing of vehicles and equipment on the construction site is discouraged.
- Avoid using water to clean construction areas. If water must be used for cleaning or surface preparation, surface should be swept and vacuumed first to remove dirt. This will minimize amount of water required.

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- Direct construction water runoff to areas where it can soak into the ground or be collected and used.
- Authorized non-stormwater discharges to the storm drain system, channels, or receiving waters are acceptable with the implementation of appropriate BMPs.
- Lock water tank valves to prevent unauthorized use.

Costs

The cost is small to none compared to the benefits of conserving water.

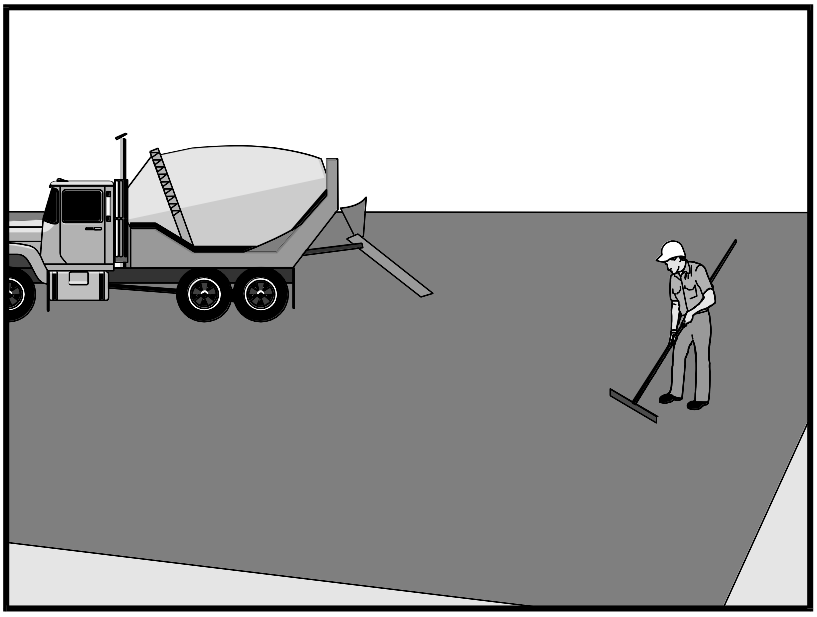
Inspection and Maintenance

- Inspect and verify that activity based BMPs are in place prior to the commencement of authorized non-stormwater discharges.
- Inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Inspect BMPs subject to non-stormwater discharges daily while non-stormwater discharges are occuring.
- Repair water equipment as needed to prevent unintended discharges.
  - Water trucks
  - Water reservoirs (water buffalos)
  - Irrigation systems
  - Hydrant connections

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Paving and Grinding Operations NS-3



Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	☑
WM	Waste Management and Materials Pollution Control	☒

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	☑
Organics	

Potential Alternatives

None

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Description and Purpose

Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent runon and runoff pollution, properly disposing of wastes, and training employees and subcontractors.

The General Permit incorporates Numeric Action Levels (NAL) for pH and turbidity (see Section 2 of this handbook to determine your project's risk level and if you are subject to these requirements).

Many types of construction materials associated with paving and grinding operations, including mortar, concrete, and cement and their associated wastes have basic chemical properties that can raise pH levels outside of the permitted range. Additional care should be taken when managing these materials to prevent them from coming into contact with stormwater flows, which could lead to exceedances of the General Permit requirements.

Suitable Applications

These procedures are implemented where paving, surfacing, resurfacing, or sawcutting, may pollute stormwater runoff or discharge to the storm drain system or watercourses.

Limitations

- Paving opportunities may be limited during wet weather.

  Discharges of freshly paved surfaces may raise pH to environmentally harmful levels and trigger permit violations.

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Implementation

General

- Avoid paving during the wet season when feasible.
- Reschedule paving and grinding activities if rain is forecasted.
- Train employees and sub-contractors in pollution prevention and reduction.
- Store materials away from drainage courses to prevent stormwater runon (see WM-1, Material Delivery and Storage).
- Protect drainage courses, particularly in areas with a grade, by employing BMPs to divert runoff or to trap and filter sediment.
- Stockpile material removed from roadways away from drain inlets, drainage ditches, and watercourses. These materials should be stored consistent with WM-3, Stockpile Management.
- Disposal of PCC (Portland cement concrete) and AC (asphalt concrete) waste should be in conformance with WM-8, Concrete Waste Management.

Saw Cutting, Grinding, and Pavement Removal

- Shovel or vacuum saw-cut slurry and remove from site. Cover or barricade storm drains during saw cutting to contain slurry.
- When paving involves AC, the following steps should be implemented to prevent the discharge of grinding residue, uncompacted or loose AC, tack coats, equipment cleaners, or unrelated paving materials:
  - AC grindings, pieces, or chunks used in embankments or shoulder backing should not be allowed to enter any storm drains or watercourses. Install inlet protection and perimeter controls until area is stabilized (i.e. cutting, grinding or other removal activities are complete and loose material has been properly removed and disposed of)or permanent controls are in place. Examples of temporary perimeter controls can be found in EC-9, Earth Dikes and Drainage Swales; SE-1, Silt Fence; SE-5, Fiber Rolls, or SE-13 Compost Socks and Berms
  - Collect and remove all broken asphalt and recycle when practical. Old or spilled asphalt should be recycled or disposed of properly.
- Do not allow saw-cut slurry to enter storm drains or watercourses. Residue from grinding operations should be picked up by a vacuum attachment to the grinding machine, or by sweeping, should not be allowed to flow across the pavement, and should not be left on the surface of the pavement. See also WM-8, Concrete Waste Management, and WM-10, Liquid Waste Management.
- Pavement removal activities should not be conducted in the rain.
- Collect removed pavement material by mechanical or manual methods. This material may be recycled for use as shoulder backing or base material.

- If removed pavement material cannot be recycled, transport the material back to an approved storage site.

Asphaltic Concrete Paving

- If paving involves asphaltic cement concrete, follow these steps:

  - Do not allow sand or gravel placed over new asphalt to wash into storm drains, streets, or creeks. Vacuum or sweep loose sand and gravel and properly dispose of this waste by referring to WM-5, Solid Waste Management.

  - Old asphalt should be disposed of properly. Collect and remove all broken asphalt from the site and recycle whenever possible.

Portland Cement Concrete Paving

- Do not wash sweepings from exposed aggregate concrete into a storm drain system. Collect waste materials by dry methods, such as sweeping or shoveling, and return to aggregate base stockpile or dispose of properly. Allow aggregate rinse to settle. Then, either allow rinse water to dry in a temporary pit as described in WM-8, Concrete Waste Management, or pump the water to the sanitary sewer if authorized by the local wastewater authority.

Sealing Operations

- During chip seal application and sweeping operations, petroleum or petroleum covered aggregate should not be allowed to enter any storm drain or water courses. Apply temporary perimeter controls until structure is stabilized (i.e. all sealing operations are complete and cured and loose materials have been properly removed and disposed).

- Inlet protection (SE-10, Storm Drain Inlet Protection) should be used during application of seal coat, tack coat, slurry seal, and fog seal.

- Seal coat, tack coat, slurry seal, or fog seal should not be applied if rainfall is predicted to occur during the application or curing period.

Paving Equipment

- Leaks and spills from paving equipment can contain toxic levels of heavy metals and oil and grease. Place drip pans or absorbent materials under paving equipment when not in use. Clean up spills with absorbent materials and dispose of in accordance with the applicable regulations. See NS-10, Vehicle and Equipment Maintenance, WM-4, Spill Prevention and Control, and WM-10, Liquid Waste Management.

- Substances used to coat asphalt transport trucks and asphalt spreading equipment should not contain soap and should be non-foaming and non-toxic.

- Paving equipment parked onsite should be parked over plastic to prevent soil contamination.

- Clean asphalt coated equipment offsite whenever possible. When cleaning dry, hardened asphalt from equipment, manage hardened asphalt debris as described in WM-5, Solid Waste Management. Any cleaning onsite should follow NS-8, Vehicle and Equipment Cleaning.

Thermoplastic Striping

- Thermoplastic striper and pre-heater equipment shutoff valves should be inspected to ensure that they are working properly to prevent leaking thermoplastic from entering drain inlets, the stormwater drainage system, or watercourses.
- Pre-heaters should be filled carefully to prevent splashing or spilling of hot thermoplastic. Leave six inches of space at the top of the pre-heater container when filling thermoplastic to allow room for material to move.
- Do not pre-heat, transfer, or load thermoplastic near drain inlets or watercourses.
- Clean truck beds daily of loose debris and melted thermoplastic. When possible, recycle thermoplastic material.

Raised/Recessed Pavement Marker Application and Removal

- Do not transfer or load bituminous material near drain inlets, the stormwater drainage system, or watercourses.
- Melting tanks should be loaded with care and not filled to beyond six inches from the top to leave room for splashing.
- When servicing or filling melting tanks, ensure all pressure is released before removing lids to avoid spills.
- On large-scale projects, use mechanical or manual methods to collect excess bituminous material from the roadway after removal of markers.

Costs

- All of the above are low cost measures.

Inspection and Maintenance

- Inspect and verify that activity-based BMPs are in place prior to the commencement of paving and grinding operations.
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Sample stormwater runoff required by the General Permit.
- Keep ample supplies of drip pans or absorbent materials onsite.
- Inspect and maintain machinery regularly to minimize leaks and drips.

References

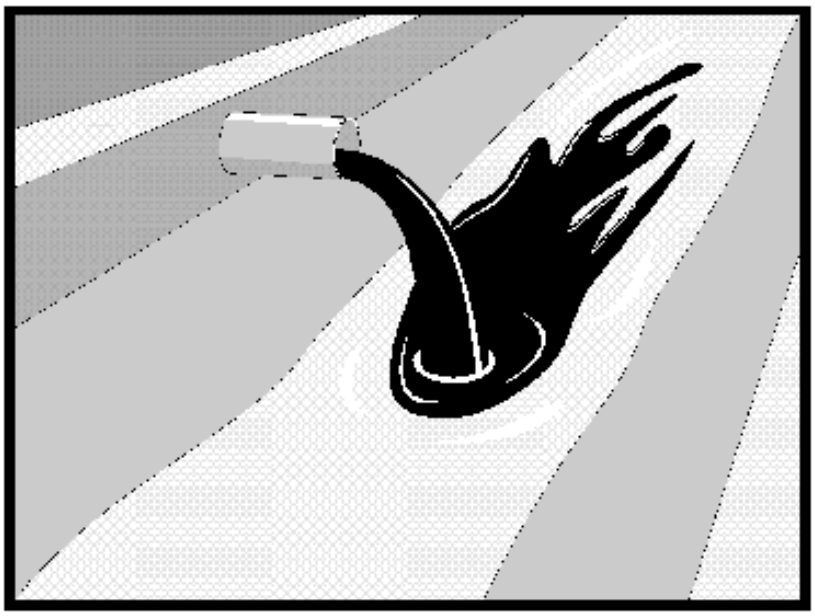
Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

Hot Mix Asphalt-Paving Handbook AC 150/5370-14, Appendix I, U.S. Army Corps of Engineers, July 1991.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.

Illicit Connection/Discharge NS-6



Description and Purpose

Procedures and practices designed for construction contractors to recognize illicit connections or illegally dumped or discharged materials on a construction site and report incidents.

Suitable Applications

This best management practice (BMP) applies to all construction projects. Illicit connection/discharge and reporting is applicable anytime an illicit connection or discharge is discovered, or illegally dumped material is found on the construction site.

Limitations

Illicit connections and illegal discharges or dumping, for the purposes of this BMP, refer to discharges and dumping caused by parties other than the contractor. If pre-existing hazardous materials or wastes are known to exist onsite, they should be identified in the SWPPP and handled as set forth in the SWPPP.

Implementation

Planning

- Review the SWPPP. Pre-existing areas of contamination should be identified and documented in the SWPPP.
- Inspect site before beginning the job for evidence of illicit connections, illegal dumping or discharges. Document any pre-existing conditions and notify the owner.

Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	☑
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	☑
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

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- Inspect site regularly during project execution for evidence of illicit connections, illegal dumping or discharges.
- Observe site perimeter for evidence for potential of illicitly discharged or illegally dumped material, which may enter the job site.

Identification of Illicit Connections and Illegal Dumping or Discharges

- **General –** unlabeled and unidentifiable material should be treated as hazardous.
- **Solids** - Look for debris, or rubbish piles. Solid waste dumping often occurs on roadways with light traffic loads or in areas not easily visible from the traveled way.
- **Liquids** - signs of illegal liquid dumping or discharge can include:
  - Visible signs of staining or unusual colors to the pavement or surrounding adjacent soils
  - Pungent odors coming from the drainage systems
  - Discoloration or oily substances in the water or stains and residues detained within ditches, channels or drain boxes
  - Abnormal water flow during the dry weather season
- **Urban Areas** - Evidence of illicit connections or illegal discharges is typically detected at storm drain outfall locations or at manholes. Signs of an illicit connection or illegal discharge can include:
  - Abnormal water flow during the dry weather season
  - Unusual flows in sub drain systems used for dewatering
  - Pungent odors coming from the drainage systems
  - Discoloration or oily substances in the water or stains and residues detained within ditches, channels or drain boxes
  - Excessive sediment deposits, particularly adjacent to or near active offsite construction projects
- **Rural Areas** - Illicit connections or illegal discharges involving irrigation drainage ditches are detected by visual inspections. Signs of an illicit discharge can include:
  - Abnormal water flow during the non-irrigation season
  - Non-standard junction structures
  - Broken concrete or other disturbances at or near junction structures

Reporting

Notify the owner of any illicit connections and illegal dumping or discharge incidents at the time of discovery. For illicit connections or discharges to the storm drain system, notify the local stormwater management agency. For illegal dumping, notify the local law enforcement agency.

Cleanup and Removal

The responsibility for cleanup and removal of illicit or illegal dumping or discharges will vary by location. Contact the local stormwater management agency for further information.

Costs

Costs to look for and report illicit connections and illegal discharges and dumping are low. The best way to avoid costs associated with illicit connections and illegal discharges and dumping is to keep the project perimeters secure to prevent access to the site, to observe the site for vehicles that should not be there, and to document any waste or hazardous materials that exist onsite before taking possession of the site.

Inspection and Maintenance

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Inspect the site regularly to check for any illegal dumping or discharge.
- Prohibit employees and subcontractors from disposing of non-job-related debris or materials at the construction site.
- Notify the owner of any illicit connections and illegal dumping or discharge incidents at the time of discovery.

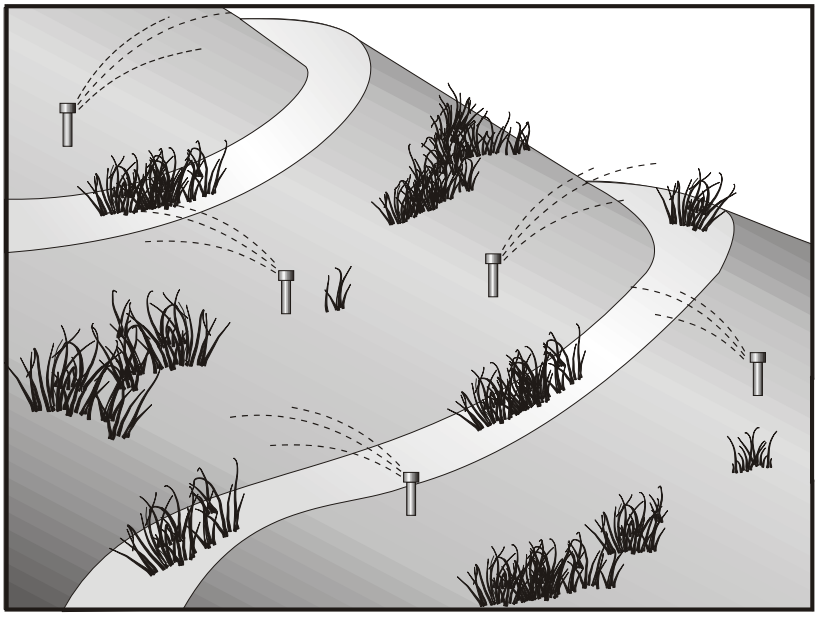
References

Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Stormwater Management for Construction Activities, Developing Pollution Prevention Plans and Best Management Practices, EPA 832-R-92005; USEPA, April 1992.

Potable Water/Irrigation NS-7



Description and Purpose

Potable Water/Irrigation consists of practices and procedures to manage the discharge of potential pollutants generated during discharges from irrigation water lines, landscape irrigation, lawn or garden watering, planned and unplanned discharges from potable water sources, water line flushing, and hydrant flushing.

Suitable Applications

Implement this BMP whenever potable water or irrigation water discharges occur at or enter a construction site.

Limitations

None identified.

Implementation

- Direct water from offsite sources around or through a construction site, where feasible, in a way that minimizes contact with the construction site.
- Discharges from water line flushing should be reused for landscaping purposes where feasible.
- Shut off the water source to broken lines, sprinklers, or valves as soon as possible to prevent excess water flow.
- Protect downstream stormwater drainage systems and watercourses from water pumped or bailed from trenches excavated to repair water lines.

Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	☑
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	
Metals	☑
Bacteria	
Oil and Grease	
Organics	☑

Potential Alternatives

None

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- Inspect irrigated areas within the construction limits for excess watering. Adjust watering times and schedules to ensure that the appropriate amount of water is being used and to minimize runoff. Consider factors such as soil structure, grade, time of year, and type of plant material in determining the proper amounts of water for a specific area.

Costs

Cost to manage potable water and irrigation are low and generally considered to be a normal part of related activities.

Inspection and Maintenance

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Inspect BMPs subject to non-stormwater discharges daily while non-stormwater discharges occur.
- Repair broken water lines as soon as possible.
- Inspect irrigated areas regularly for signs of erosion and/or discharge.

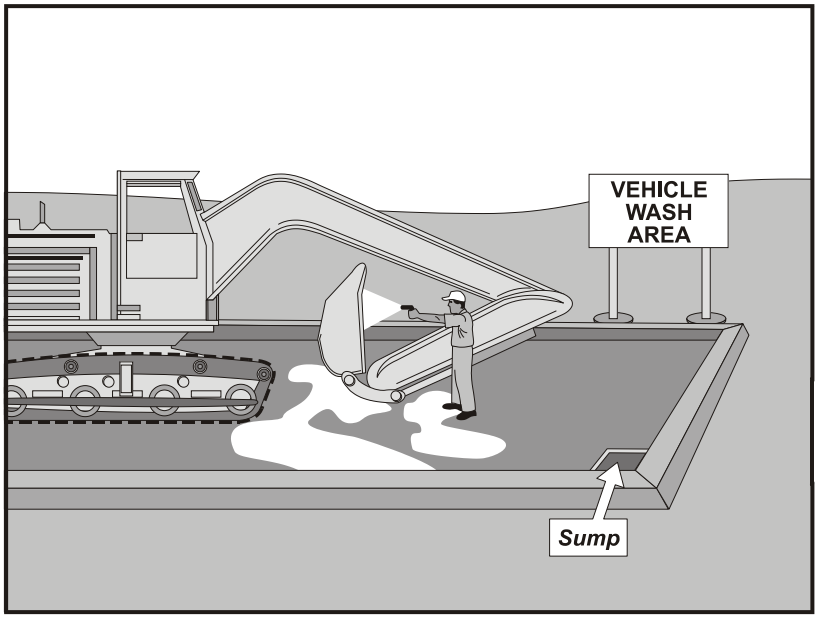
References

Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Stormwater Management for Construction Activities, Developing Pollution Prevention Plans and Best Management Practices, EPA 832-R-92005; USEPA, April 1992.

Vehicle and Equipment Cleaning NS-8



Categories

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Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	
Metals	
Bacteria	
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

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Description and Purpose

Vehicle and equipment cleaning procedures and practices eliminate or reduce the discharge of pollutants to stormwater from vehicle and equipment cleaning operations. Procedures and practices include but are not limited to: using offsite facilities; washing in designated, contained areas only; eliminating discharges to the storm drain by infiltrating the wash water; and training employees and subcontractors in proper cleaning procedures.

Suitable Applications

These procedures are suitable on all construction sites where vehicle and equipment cleaning is performed.

Limitations

Even phosphate-free, biodegradable soaps have been shown to be toxic to fish before the soap degrades. Sending vehicles/equipment offsite should be done in conjunction with TC-1, Stabilized Construction Entrance/Exit.

Implementation

Other options to washing equipment onsite include contracting with either an offsite or mobile commercial washing business. These businesses may be better equipped to handle and dispose of the wash waters properly. Performing this work offsite can also be economical by eliminating the need for a separate washing operation onsite.

If washing operations are to take place onsite, then:

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- Use phosphate-free, biodegradable soaps.
- Educate employees and subcontractors on pollution prevention measures.
- Do not permit steam cleaning onsite. Steam cleaning can generate significant pollutant concentrates.
- Cleaning of vehicles and equipment with soap, solvents or steam should not occur on the project site unless resulting wastes are fully contained and disposed of. Resulting wastes should not be discharged or buried and must be captured and recycled or disposed according to the requirements of WM-10, Liquid Waste Management or WM-6, Hazardous Waste Management, depending on the waste characteristics. Minimize use of solvents. Use of diesel for vehicle and equipment cleaning is prohibited.
- All vehicles and equipment that regularly enter and leave the construction site must be cleaned offsite.
- When vehicle and equipment washing and cleaning must occur onsite, and the operation cannot be located within a structure or building equipped with appropriate disposal facilities, the outside cleaning area should have the following characteristics:
  - Located away from storm drain inlets, drainage facilities, or watercourses
  - Paved with concrete or asphalt and bermed to contain wash waters and to prevent runon and runoff
  - Configured with a sump to allow collection and disposal of wash water
  - No discharge of wash waters to storm drains or watercourses
  - Used only when necessary
- When cleaning vehicles and equipment with water:
  - Use as little water as possible. High-pressure sprayers may use less water than a hose and should be considered
  - Use positive shutoff valve to minimize water usage
  - Facility wash racks should discharge to a sanitary sewer, recycle system or other approved discharge system and must not discharge to the storm drainage system, watercourses, or to groundwater

Costs

Cleaning vehicles and equipment at an offsite facility may reduce overall costs for vehicle and equipment cleaning by eliminating the need to provide similar services onsite. When onsite cleaning is needed, the cost to establish appropriate facilities is relatively low on larger, long-duration projects, and moderate to high on small, short-duration projects.

Inspection and Maintenance

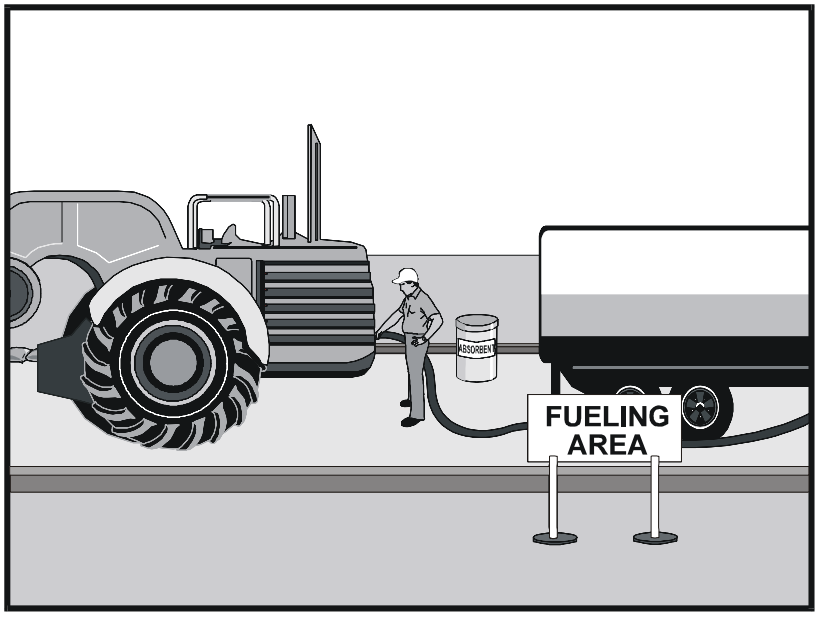
- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Inspect BMPs subject to non-stormwater discharges daily while non-stormwater discharges occur.
- Inspection and maintenance is minimal, although some berm repair may be necessary.
- Monitor employees and subcontractors throughout the duration of the construction project to ensure appropriate practices are being implemented.
- Inspect sump regularly and remove liquids and sediment as needed.
- Prohibit employees and subcontractors from washing personal vehicles and equipment on the construction site.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Swisher, R.D. Surfactant Biodegradation, Marcel Decker Corporation, 1987.

Vehicle and Equipment Fueling NS-9



Categories

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Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	☑
Organics	

Potential Alternatives

None

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Description and Purpose

Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.

Suitable Applications

These procedures are suitable on all construction sites where vehicle and equipment fueling takes place.

Limitations

Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling. Sending vehicles and equipment offsite should be done in conjunction with TC-1, Stabilized Construction Entrance/ Exit.

Implementation

- Use offsite fueling stations as much as possible. These businesses are better equipped to handle fuel and spills properly. Performing this work offsite can also be economical by eliminating the need for a separate fueling area at a site.
- Discourage "topping-off" of fuel tanks.

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- Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks and should be disposed of properly after use.
- Drip pans or absorbent pads should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area.
- Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the adsorbent materials promptly and dispose of properly.
- Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas. With the exception of tracked equipment such as bulldozers and large excavators, most vehicles should be able to travel to a designated area with little lost time.
- Train employees and subcontractors in proper fueling and cleanup procedures.
- When fueling must take place onsite, designate an area away from drainage courses to be used. Fueling areas should be identified in the SWPPP.
- Dedicated fueling areas should be protected from stormwater runon and runoff and should be located at least 50 ft away from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas.
- Protect fueling areas with berms and dikes to prevent runon, runoff, and to contain spills.
- Nozzles used in vehicle and equipment fueling should be equipped with an automatic shutoff to control drips. Fueling operations should not be left unattended.
- Use vapor recovery nozzles to help control drips as well as air pollution where required by Air Quality Management Districts (AQMD).
- Federal, state, and local requirements should be observed for any stationary above ground storage tanks.

Costs

- All of the above measures are low cost except for the capital costs of above ground tanks that meet all local environmental, zoning, and fire codes.

Inspection and Maintenance

- Inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately, or problem vehicles or equipment should be removed from the project site.
- Keep ample supplies of spill cleanup materials onsite.

- Immediately clean up spills and properly dispose of contaminated soil and cleanup materials.

References

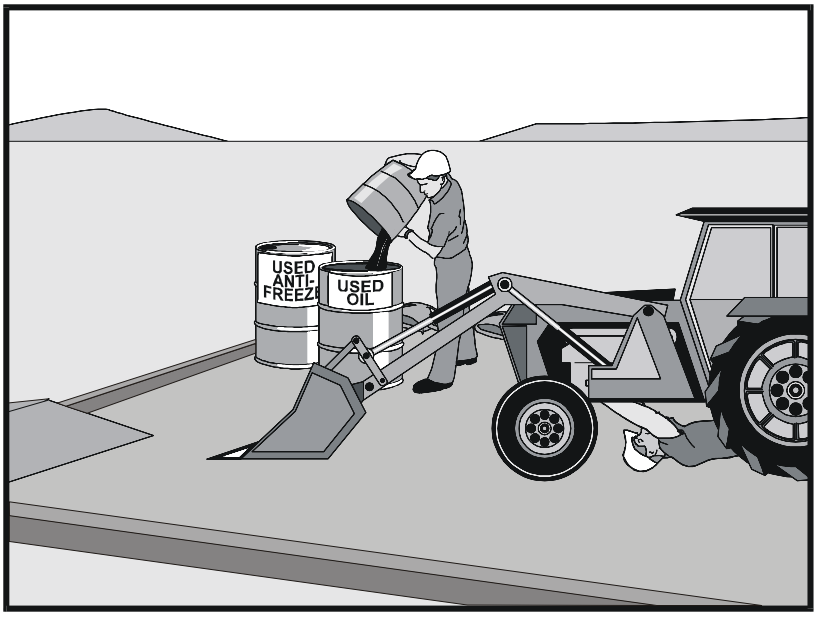
Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

Coastal Nonpoint Pollution Control Program: Program Development and Approval Guidance, Working Group Working Paper; USEPA, April 1992.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Stormwater Management for Construction Activities, Developing Pollution Prevention Plans and Best Management Practices, EPA 832-R-92005; USEPA, April 1992.

Vehicle & Equipment Maintenance NS-10



Categories

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Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	
Nutrients	☑
Trash	☑
Metals	
Bacteria	
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

Description and Purpose

Prevent or reduce the contamination of stormwater resulting from vehicle and equipment maintenance by running a "dry and clean site". The best option would be to perform maintenance activities at an offsite facility. If this option is not available then work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately. Employees and subcontractors must be trained in proper procedures.

Suitable Applications

These procedures are suitable on all construction projects where an onsite yard area is necessary for storage and maintenance of heavy equipment and vehicles.

Limitations

Onsite vehicle and equipment maintenance should only be used where it is impractical to send vehicles and equipment offsite for maintenance and repair. Sending vehicles/equipment offsite should be done in conjunction with TC-1, Stabilized Construction Entrance/Exit.

Outdoor vehicle or equipment maintenance is a potentially significant source of stormwater pollution. Activities that can contaminate stormwater include engine repair and service, changing or replacement of fluids, and outdoor equipment storage and parking (engine fluid leaks). For further information on vehicle or equipment servicing, see NS-8,

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Vehicle and Equipment Cleaning, and NS-9, Vehicle and Equipment Fueling.

Implementation

- Use offsite repair shops as much as possible. These businesses are better equipped to handle vehicle fluids and spills properly. Performing this work offsite can also be economical by eliminating the need for a separate maintenance area.
- If maintenance must occur onsite, use designated areas, located away from drainage courses. Dedicated maintenance areas should be protected from stormwater runon and runoff and should be located at least 50 ft from downstream drainage facilities and watercourses.
- Drip pans or absorbent pads should be used during vehicle and equipment maintenance work that involves fluids, unless the maintenance work is performed over an impermeable surface in a dedicated maintenance area.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- All fueling trucks and fueling areas are required to have spill kits and/or use other spill protection devices.
- Use adsorbent materials on small spills. Remove the absorbent materials promptly and dispose of properly.
- Inspect onsite vehicles and equipment daily at startup for leaks, and repair immediately.
- Keep vehicles and equipment clean; do not allow excessive build-up of oil and grease.
- Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic and transmission fluids. Provide secondary containment and covers for these materials if stored onsite.
- Train employees and subcontractors in proper maintenance and spill cleanup procedures.
- Drip pans or plastic sheeting should be placed under all vehicles and equipment placed on docks, barges, or other structures over water bodies when the vehicle or equipment is planned to be idle for more than 1 hour.
- For long-term projects, consider using portable tents or covers over maintenance areas if maintenance cannot be performed offsite.
- Consider use of new, alternative greases and lubricants, such as adhesive greases, for chassis lubrication and fifth-wheel lubrication.
- Properly dispose of used oils, fluids, lubricants, and spill cleanup materials.
- Do not place used oil in a dumpster or pour into a storm drain or watercourse.
- Properly dispose of or recycle used batteries.
- Do not bury used tires.

- Repair leaks of fluids and oil immediately.

Listed below is further information if you must perform vehicle or equipment maintenance onsite.

Safer Alternative Products

- Consider products that are less toxic or hazardous than regular products. These products are often sold under an "environmentally friendly" label.
- Consider use of grease substitutes for lubrication of truck fifth-wheels. Follow manufacturers label for details on specific uses.
- Consider use of plastic friction plates on truck fifth-wheels in lieu of grease. Follow manufacturers label for details on specific uses.

Waste Reduction

Parts are often cleaned using solvents such as trichloroethylene, trichloroethane, or methylene chloride. Many of these cleaners are listed in California Toxic Rule as priority pollutants. These materials are harmful and must not contaminate stormwater. They must be disposed of as a hazardous waste. Reducing the number of solvents makes recycling easier and reduces hazardous waste management costs. Often, one solvent can perform a job as well as two different solvents. Also, if possible, eliminate or reduce the amount of hazardous materials and waste by substituting non-hazardous or less hazardous materials. For example, replace chlorinated organic solvents with non-chlorinated solvents. Non-chlorinated solvents like kerosene or mineral spirits are less toxic and less expensive to dispose of properly. Check the list of active ingredients to see whether it contains chlorinated solvents. The "chlor" term indicates that the solvent is chlorinated. Also, try substituting a wire brush for solvents to clean parts.

Recycling and Disposal

Separating wastes allows for easier recycling and may reduce disposal costs. Keep hazardous wastes separate, do not mix used oil solvents, and keep chlorinated solvents (like,-trichloroethane) separate from non-chlorinated solvents (like kerosene and mineral spirits). Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around. Provide cover and secondary containment until these materials can be removed from the site.

Oil filters can be recycled. Ask your oil supplier or recycler about recycling oil filters.

Do not dispose of extra paints and coatings by dumping liquid onto the ground or throwing it into dumpsters. Allow coatings to dry or harden before disposal into covered dumpsters.

Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries, even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Costs

All of the above are low cost measures. Higher costs are incurred to setup and maintain onsite maintenance areas.

Inspection and Maintenance

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Inspect BMPs subject to non-stormwater discharges daily while non-stormwater discharges occur.
- Keep ample supplies of spill cleanup materials onsite.
- Maintain waste fluid containers in leak proof condition.
- Vehicles and equipment should be inspected on each day of use. Leaks should be repaired immediately, or the problem vehicle(s) or equipment should be removed from the project site.
- Inspect equipment for damaged hoses and leaky gaskets routinely. Repair or replace as needed.

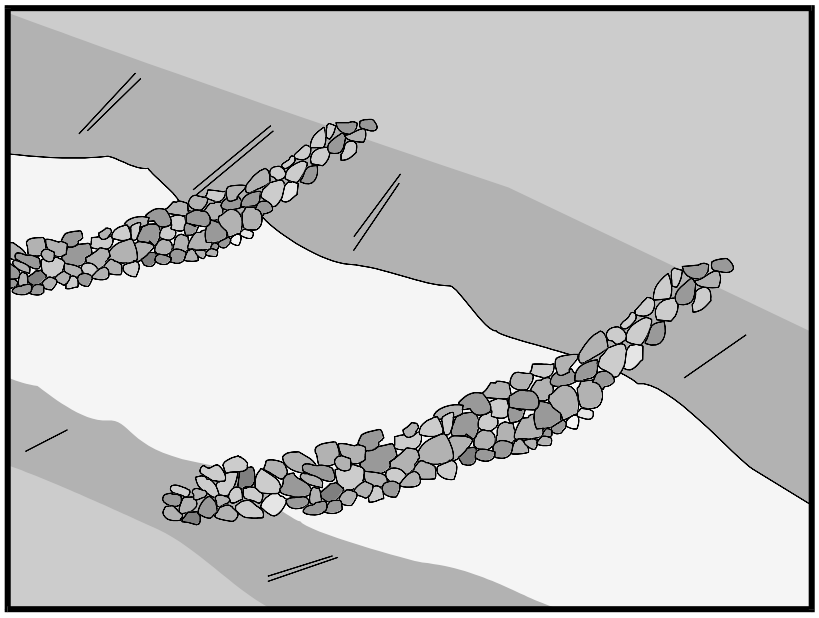
References

Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

Coastal Nonpoint Pollution Control Program; Program Development and Approval Guidance, Working Group, Working Paper; USEPA, April 1992.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Check Dams SE-4



Description and Purpose

A check dam is a small barrier constructed of rock, gravel bags, sandbags, fiber rolls, or other proprietary products, placed across a constructed swale or drainage ditch. Check dams reduce the effective slope of the channel, thereby reducing scour and channel erosion by reducing flow velocity and increasing residence time within the channel, allowing sediment to settle.

Suitable Applications

Check dams may be appropriate in the following situations:

- To promote sedimentation behind the dam.
- To prevent erosion by reducing the velocity of channel flow in small intermittent channels and temporary swales.
- In small open channels that drain 10 acres or less.
- In steep channels where stormwater runoff velocities exceed 5 ft/s.
- During the establishment of grass linings in drainage ditches or channels.
- In temporary ditches where the short length of service does not warrant establishment of erosion-resistant linings.
- To act as a grade control structure.

Categories

EC	Erosion Control	☒
SE	Sediment Control	☑
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

SE-5 Fiber Rolls

SE-6 Gravel Bag Berm

SE-8 Sandbag Barrier

SE-12 Manufactured Linear Sediment Controls

SE-14 Biofilter Bags

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Limitations

- Not to be used in live streams or in channels with extended base flows.
- Not appropriate in channels that drain areas greater than 10 acres.
- Not appropriate in channels that are already grass-lined unless erosion potential or sediment-laden flow is expected, as installation may damage vegetation.
- Require extensive maintenance following high velocity flows.
- Promotes sediment trapping which can be re-suspended during subsequent storms or removal of the check dam.
- Do not construct check dams with straw bales or silt fence.
- Water suitable for mosquito production may stand behind check dams, particularly if subjected to daily non-stormwater discharges.

Implementation

General

Check dams reduce the effective slope and create small pools in swales and ditches that drain 10 acres or less. Using check dams to reduce channel slope reduces the velocity of stormwater flows, thus reducing erosion of the swale or ditch and promoting sedimentation. Thus, check dams are dual-purpose and serve an important role as erosion controls as well as sediment controls. Note that use of 1-2 isolated check dams for sedimentation will likely result in little net removal of sediment because of the small detention time and probable scour during longer storms. Using a series of check dams will generally increase their effectiveness. A sediment trap (SE-3) may be placed immediately upstream of the check dam to increase sediment removal efficiency.

Design and Layout

Check dams work by decreasing the effective slope in ditches and swales. An important consequence of the reduced slope is a reduction in capacity of the ditch or swale. This reduction in capacity should be considered when using this BMP, as reduced capacity can result in overtopping of the ditch or swale and resultant consequences. In some cases, such as a "permanent" ditch or swale being constructed early and used as a "temporary" conveyance for construction flows, the ditch or swale may have sufficient capacity such that the temporary reduction in capacity due to check dams is acceptable. When check dams reduce capacities beyond acceptable limits, either:

- Don't use check dams. Consider alternative BMPs, or.
- Increase the size of the ditch or swale to restore capacity.

Maximum slope and velocity reduction is achieved when the toe of the upstream dam is at the same elevation as the top of the downstream dam (see "Spacing Between Check Dams" detail at the end of this fact sheet). The center section of the dam should be lower than the edge sections (at least 6 inches), acting as a spillway, so that the check dam will direct flows to the center of

the ditch or swale (see "Typical Rock Check Dam" detail at the end of this fact sheet). Bypass or side-cutting can occur if a sufficient spillway is not provided in the center of the dam.

Check dams are usually constructed of rock, gravel bags, sandbags, and fiber rolls. A number of products can also be used as check dams (e.g. HDPE check dams, temporary silt dikes (SE-12)), and some of these products can be removed and reused. Check dams can also be constructed of logs or lumber and have the advantage of a longer lifespan when compared to gravel bags, sandbags, and fiber rolls. Check dams should not be constructed from straw bales or silt fences, since concentrated flows quickly wash out these materials.

Rock check dams are usually constructed of 8 to 12 in. rock. The rock is placed either by hand or mechanically, but never just dumped into the channel. The dam should completely span the ditch or swale to prevent washout. The rock used should be large enough to stay in place given the expected design flow through the channel. It is recommended that abutments be extended 18 in. into the channel bank. Rock can be graded such that smaller diameter rock (e.g. 2-4 in) is located on the upstream side of larger rock (holding the smaller rock in place); increasing residence time.

Log check dams are usually constructed of 4 to 6 in. diameter logs, installed vertically. The logs should be embedded into the soil at least 18 in. Logs can be bolted or wired to vertical support logs that have been driven or buried into the soil.

See fiber rolls, SE-5, for installation of fiber roll check dams.

Gravel bag and sand bag check dams are constructed by stacking bags across the ditch or swale, shaped as shown in the drawings at the end of this fact sheet (see "Gravel Bag Check Dam" detail at the end of this fact sheet).

Manufactured products, such as temporary silt dikes (SE-12), should be installed in accordance with the manufacturer's instructions. Installation typically requires anchoring or trenching of products, as well as regular maintenance to remove accumulated sediment and debris.

If grass is planted to stabilize the ditch or swale, the check dam should be removed when the grass has matured (unless the slope of the swales is greater than 4%).

The following guidance should be followed for the design and layout of check dams:

- Install the first check dam approximately 16 ft from the outfall device and at regular intervals based on slope gradient and soil type.
- Check dams should be placed at a distance and height to allow small pools to form between each check dam.
- For multiple check dam installation, backwater from a downstream check dam should reach the toes of the upstream check dam.
- A sediment trap provided immediately upstream of the check dam will help capture sediment. Due to the potential for this sediment to be resuspended in subsequent storms, the sediment trap should be cleaned following each storm event.

- High flows (typically a 2-year storm or larger) should safely flow over the check dam without an increase in upstream flooding or damage to the check dam.
- Where grass is used to line ditches, check dams should be removed when grass has matured sufficiently to protect the ditch or swale.

Materials

- Rock used for check dams should typically be 8-12 in rock and be sufficiently sized to stay in place given expected design flows in the channel. Smaller diameter rock (e.g. 2 to 4 in) can be placed on the upstream side of larger rock to increase residence time.
- Gravel bags used for check dams should conform to the requirements of SE-6, Gravel Bag Berms.
- Sandbags used for check dams should conform to SE-8, Sandbag Barrier.
- Fiber rolls used for check dams should conform to SE-5, Fiber Rolls.
- Temporary silt dikes used for check dams should conform to SE-12, Temporary Silt Dikes.

Installation

- Rock should be placed individually by hand or by mechanical methods (no dumping of rock) to achieve complete ditch or swale coverage.
- Tightly abut bags and stack according to detail shown in the figure at the end of this section (pyramid approach). Gravel bags and sandbags should not be stacked any higher than 3 ft.
- Upper rows or gravel and sand bags shall overlap joints in lower rows.
- Fiber rolls should be trenched in, backfilled, and firmly staked in place.
- Install along a level contour.
- HDPE check dams, temporary silt dikes, and other manufactured products should be used and installed per manufacturer specifications.

Costs

Cost consists of labor costs if materials are readily available (such as gravel on-site). If material must be imported, costs will increase. For other material and installation costs, see SE-5, SE-6, SE-8, SE-12, and SE-14.

Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Replace missing rock, bags, rolls, etc. Replace bags or rolls that have degraded or have become damaged.

- If the check dam is used as a sediment capture device, sediment that accumulates behind the BMP should be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when the sediment accumulation reaches one-third of the barrier height.
- If the check dam is used as a grade control structure, sediment removal is not required as long as the system continues to control the grade.
- Inspect areas behind check dams for pools of standing water, especially if subjected to daily non-stormwater discharges.
- Remove accumulated sediment prior to permanent seeding or soil stabilization.
- Remove check dam and accumulated sediment when check dams are no longer needed.

References

Draft – Sedimentation and Erosion Control, and Inventory of Current Practices, USEPA, April 1990.

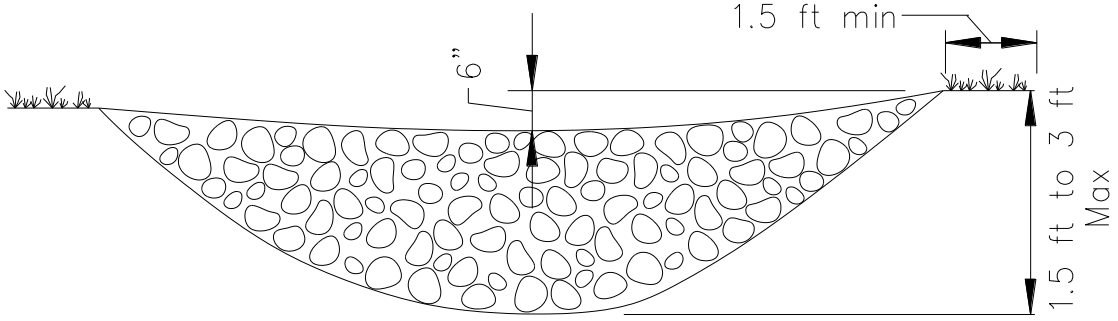
Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

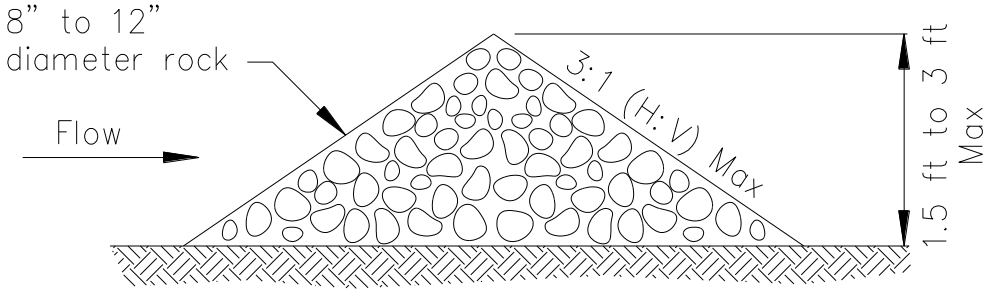
Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.

Metzger, M.E. 2004. Managing mosquitoes in stormwater treatment devices. University of California Division of Agriculture and Natural Resources, Publication 8125. On-line: http://anrcatalog.ucdavis.edu/pdf/8125.pdf

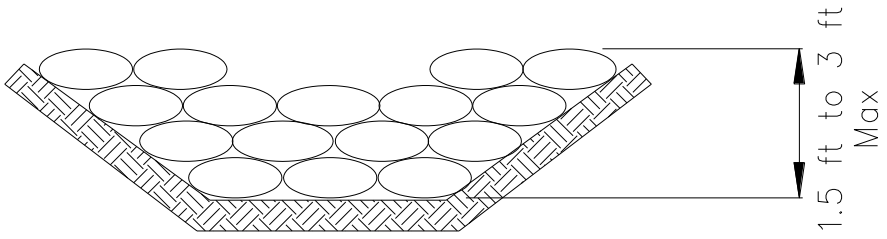


ELEVATION

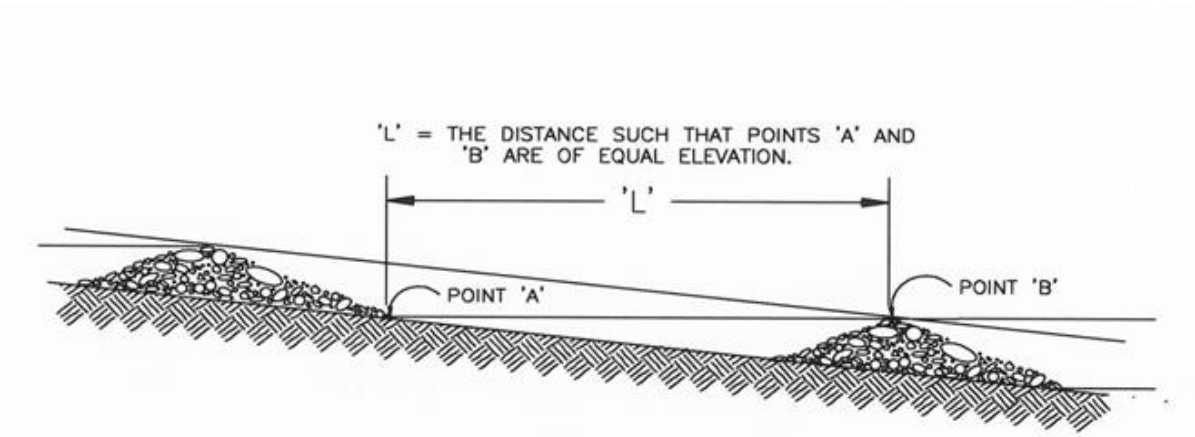


TYPICAL ROCK CHECK DAM SECTION

ROCK CHECK DAM
NOT TO SCALE

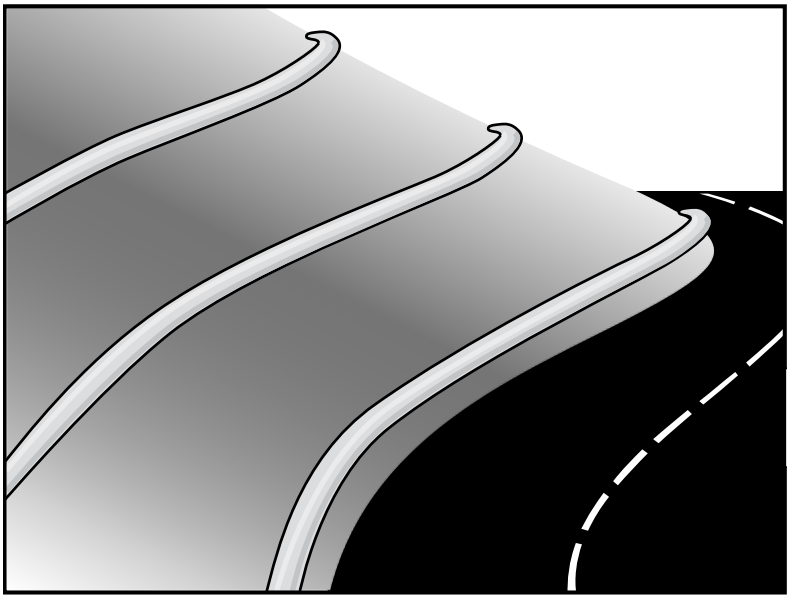


GRAVEL BAG CHECK DAM ELEVATION
NOT TO SCALE



SPACING BETWEEN CHECK DAMS

Fiber Rolls SE-5



Categories

EC	Erosion Control	☒
SE	Sediment Control	☑
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Description and Purpose

A fiber roll (also known as wattles or logs) consists of straw, coir, curled wood fiber, or other biodegradable materials bound into a tight tubular roll wrapped by plastic netting, which can be photodegradable, or natural fiber, such as jute, cotton, or sisal. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

SE-1 Silt Fence

SE-6 Gravel Bag Berm

SE-8 Sandbag Barrier

SE-12 Manufactured Linear Sediment Controls

SE-14 Biofilter Bags

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- At operational storm drains as a form of inlet protection.
- Around temporary stockpiles.

Limitations

- Fiber rolls should be used in conjunction with erosion control, such as hydroseed, RECPs, etc.
- Only biodegradable fiber rolls containing no plastic can remain on a site applying for a Notice of Termination due to plastic pollution and wildlife concerns (State Water Board, 2016). Fiber rolls containing plastic that are used on a site must be disposed of for final stabilization.
- Fiber rolls are not effective unless trenched in and staked. If not properly staked and trenched in, fiber rolls will not work as intended and could be transported by high flows.
- Not intended for use in high flow situations (i.e., for concentrated flows).
- Difficult to move once saturated.
- Fiber rolls have a limited sediment capture zone.
- Fiber rolls should not be used on slopes subject to creep, slumping, or landslide.
- Rolls typically function for 12-24 months, depending upon local conditions and roll material.

Implementation

Fiber Roll Materials

- Fiber rolls should be prefabricated.
- Fiber rolls may come manufactured containing polyacrylamide (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine, clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.
- Fiber rolls are made from weed-free rice straw, flax, curled wood fiber, or coir bound into a tight tubular roll by netting or natural fiber (see *Limitations* above regarding plastic netting).
- Typical fiber rolls vary in diameter from 6 in. to 20 in. Larger diameter rolls are available as well. The larger the roll, the higher the sediment retention capacity.
- Typical fiber rolls lengths are 4, 10, 20 and 25 ft., although other lengths are likely available.

Installation

- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 20 ft.

  - Slope inclination between 4:1 and 2:1 (H:V): Fiber Rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).

  - Slope inclination 2:1 (H:V) or greater: Fiber Rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).

- Prepare the slope before beginning installation.

- Dig small trenches across the slope on the contour. The trench depth should be ¼ to 1/3 of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.

- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.

- Start building trenches and installing rolls from the bottom of the slope and work up.

- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.

- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.

- Stake fiber rolls into the trench.

  - Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.

  - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.

- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.

- See typical fiber roll installation details at the end of this fact sheet.

Removal

- Fiber rolls can be left in place or removed depending on the type of fiber roll and application (temporary vs. permanent installation). Fiber rolls encased with plastic netting or containing any plastic material will need to be removed from the site for final stabilization. Fiber rolls used in a permanent application are to be encased with a non-plastic material and are left in place. Removal of a fiber roll used in a permanent application can result in greater disturbance; therefore, during the BMP planning phase, the areas where fiber rolls will be used on final slopes, only fiber rolls wrapped in non-plastic material should be selected.

- Temporary installations should only be removed when up gradient areas are stabilized per General Permit requirements, and/or pollutant sources no longer present a hazard. But they should also be removed before vegetation becomes too mature so that the removal process does not disturb more soil and vegetation than is necessary.

Costs

Material costs for straw fiber rolls range from $26 - $38 per 25-ft. roll[1] and curled wood fiber rolls range from $30 - $40 per roll[2].

Material costs for PAM impregnated fiber rolls range between $9.00-$12.00 per linear foot, based upon vendor research[1] .

Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling, or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.
- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

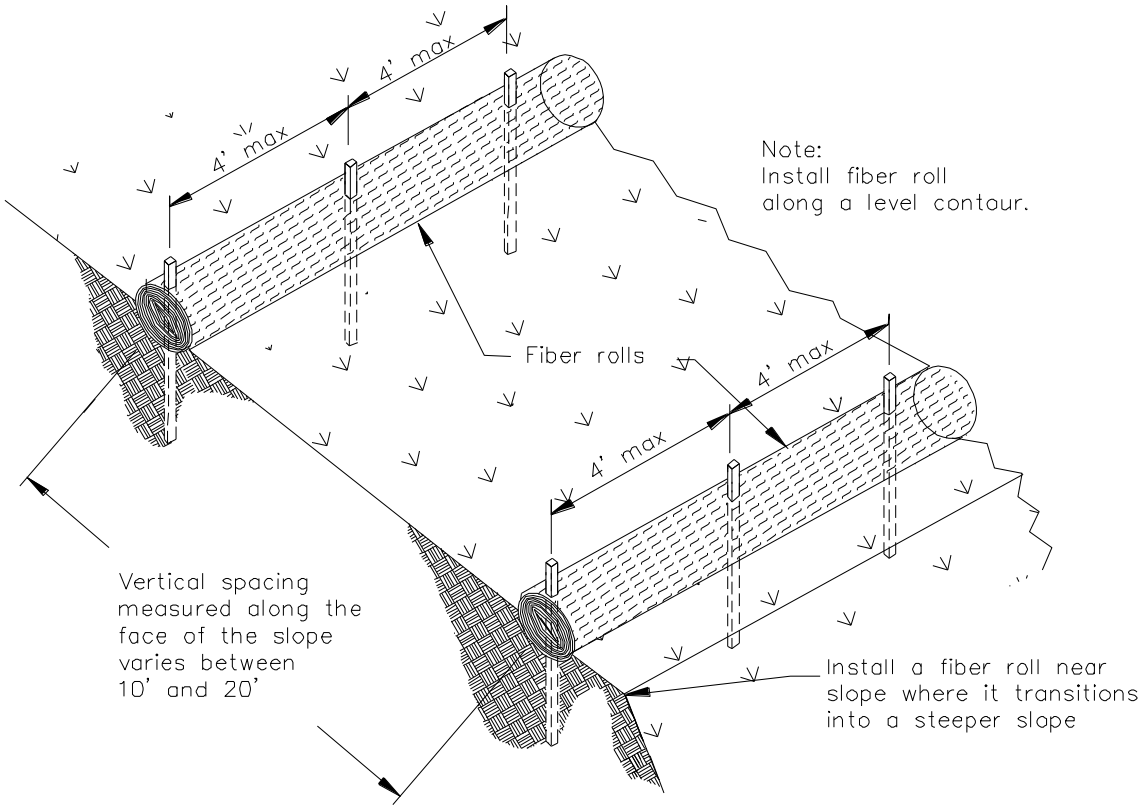
References

General Construction – Frequently Asked Questions, Storm Water Program website, State Water Resources Control Board, 2009 updated in 2016. Available online at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/gen_const_faq.shtml.

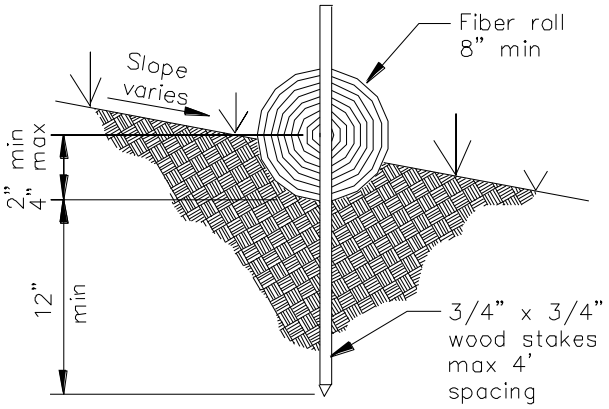
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.

[1] Adjusted for inflation (2016 dollars) by Tetra Tech, Inc.
[2] Costs estimated based on vendor query by Tetra Tech, Inc. 2016.



TYPICAL FIBER ROLL INSTALLATION
N.T.S.



ENTRENCHMENT DETAIL
N.T.S.

Street Sweeping and Vacuuming SE-7

Categories

EC	Erosion Control	
SE	Sediment Control	☒
TC	Tracking Control	☑
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	☑
Metals	
Bacteria	
Oil and Grease	☑
Organics	

Potential Alternatives

None

Description and Purpose

Street sweeping and vacuuming includes use of self-propelled and walk-behind equipment to remove sediment from streets and roadways and to clean paved surfaces in preparation for final paving. Sweeping and vacuuming prevents sediment from the project site from entering storm drains or receiving waters.

Suitable Applications

Sweeping and vacuuming are suitable anywhere sediment is tracked from the project site onto public or private paved streets and roads, typically at points of egress. Sweeping and vacuuming are also applicable during preparation of paved surfaces for final paving.

Limitations

- Sweeping and vacuuming may not be effective when sediment is wet or when tracked soil is caked (caked soil may need to be scraped loose).
- Sweeping may be less effective for fine particle soils (i.e., clay).

Implementation

- Controlling the number of points where vehicles can leave the site will allow sweeping and vacuuming efforts to be focused and perhaps save money.
- Inspect potential sediment tracking locations daily.

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- Visible sediment tracking should be swept or vacuumed on a daily basis.
- Do not use kick brooms or sweeper attachments. These tend to spread the dirt rather than remove it.
- If not mixed with debris or trash, consider incorporating the removed sediment back into the project

Costs

Rental rates for self-propelled sweepers vary depending on hopper size and duration of rental. Expect rental rates from $ 650/day to $2,500/day[1], plus operator costs. Hourly production rates vary with the amount of area to be swept and amount of sediment. Match the hopper size to the area and expect sediment load to minimize time spent dumping.

Inspection and Maintenance

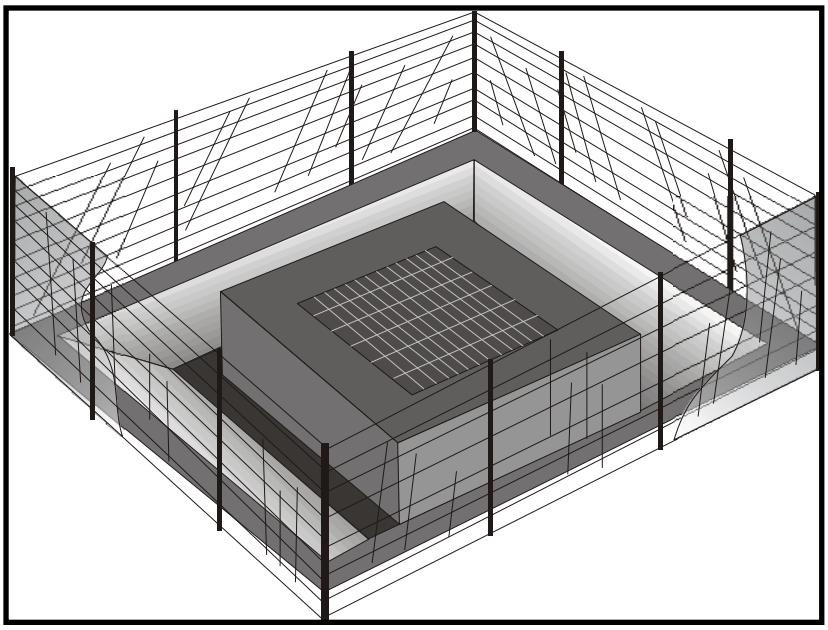
- Inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- When actively in use, points of ingress and egress must be inspected daily.
- When tracked or spilled sediment is observed outside the construction limits, it must be removed at least daily. More frequent removal, even continuous removal, may be required in some jurisdictions.
- Be careful not to sweep up any unknown substance or any object that may be potentially hazardous.
- Adjust brooms frequently; maximize efficiency of sweeping operations.
- After sweeping is finished, properly dispose of sweeper wastes at an approved dumpsite.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

[1] Based on contractor query conducted by Tetra Tech, Inc. November 2016.

Storm Drain Inlet Protection SE-10



Categories

EC	Erosion Control	
SE	Sediment Control	☑
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	☒
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

SE-1 Silt Fence

SE-5 Fiber Rolls

SE-6 Gravel Bag Berm

SE-8 Sandbag Barrier

SE-14 Biofilter Bags

SE-13 Compost Socks and Berms

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Description and Purpose

Storm drain inlet protection consists of a sediment filter or an impounding area in, around or upstream of a storm drain, drop inlet, or curb inlet. Storm drain inlet protection measures temporarily pond runoff before it enters the storm drain, allowing sediment to settle. Some filter configurations also remove sediment by filtering, but usually the ponding action results in the greatest sediment reduction. Temporary geotextile storm drain inserts attach underneath storm drain grates to capture and filter storm water.

Suitable Applications

- Every storm drain inlet receiving runoff from unstabilized or otherwise active work areas should be protected. Inlet protection should be used in conjunction with other erosion and sediment controls to prevent sediment-laden stormwater and non-stormwater discharges from entering the storm drain system.

Limitations

- Drainage area should not exceed 1 acre.
- In general straw bales should not be used as inlet protection.
- Requires an adequate area for water to pond without encroaching into portions of the roadway subject to traffic.
- Sediment removal may be inadequate to prevent sediment discharges in high flow conditions or if runoff is heavily sediment laden. If high flow conditions are expected, use

other onsite sediment trapping techniques in conjunction with inlet protection.

- Frequent maintenance is required.
- Limit drainage area to 1 acre maximum. For drainage areas larger than 1 acre, runoff should be routed to a sediment-trapping device designed for larger flows. See BMPs SE-2, Sediment Basin, and SE-3, Sediment Traps.
- Excavated drop inlet sediment traps are appropriate where relatively heavy flows are expected, and overflow capability is needed.

Implementation

General

Inlet control measures presented in this handbook should not be used for inlets draining more than one acre. Runoff from larger disturbed areas should be first routed through SE-2, Sediment Basin or SE-3, Sediment Trap and/or used in conjunction with other drainage control, erosion control, and sediment control BMPs to protect the site. Different types of inlet protection are appropriate for different applications depending on site conditions and the type of inlet. Alternative methods are available in addition to the methods described/shown herein such as prefabricated inlet insert devices, or gutter protection devices.

Design and Layout

Identify existing and planned storm drain inlets that have the potential to receive sediment-laden surface runoff. Determine if storm drain inlet protection is needed and which method to use.

- The key to successful and safe use of storm drain inlet protection devices is to know where runoff that is directed toward the inlet to be protected will pond or be diverted as a result of installing the protection device.
  - Determine the acceptable location and extent of ponding in the vicinity of the drain inlet. The acceptable location and extent of ponding will influence the type and design of the storm drain inlet protection device.
  - Determine the extent of potential runoff diversion caused by the storm drain inlet protection device. Runoff ponded by inlet protection devices may flow around the device and towards the next downstream inlet. In some cases, this is acceptable; in other cases, serious erosion or downstream property damage can be caused by these diversions. The possibility of runoff diversions will influence whether or not storm drain inlet protection is suitable; and, if suitable, the type and design of the device.
- The location and extent of ponding, and the extent of diversion, can usually be controlled through appropriate placement of the inlet protection device. In some cases, moving the inlet protection device a short distance upstream of the actual inlet can provide more efficient sediment control, limit ponding to desired areas, and prevent or control diversions.
- Seven types of inlet protection are presented below. However, it is recognized that other effective methods and proprietary devices exist and may be selected.

- Silt Fence: Appropriate for drainage basins with less than a 5% slope, sheet flows, and flows under 0.5 cfs.

- Excavated Drop Inlet Sediment Trap: An excavated area around the inlet to trap sediment (SE-3).

- Gravel bag barrier: Used to create a small sediment trap upstream of inlets on sloped, paved streets. Appropriate for sheet flow or when concentrated flow may exceed 0.5 cfs, and where overtopping is required to prevent flooding.

- Block and Gravel Filter: Appropriate for flows greater than 0.5 cfs.

- Temporary Geotextile Storm drain Inserts: Different products provide different features. Refer to manufacturer details for targeted pollutants and additional features.

- Biofilter Bag Barrier: Used to create a small retention area upstream of inlets and can be located on pavement or soil. Biofilter bags slowly filter runoff allowing sediment to settle out. Appropriate for flows under 0.5 cfs.

- Compost Socks: Allow filtered run-off to pass through the compost while retaining sediment and potentially other pollutants (SE-13). Appropriate for flows under 1.0 cfs.

- Select the appropriate type of inlet protection and design as referred to or as described in this fact sheet.

- Provide area around the inlet for water to pond without flooding structures and property.

- Grates and spaces around all inlets should be sealed to prevent seepage of sediment-laden water.

- Excavate sediment sumps (where needed) 1 to 2 ft with 2:1 side slopes around the inlet.

Installation

- ***DI Protection Type 1 - Silt Fence -*** Similar to constructing a silt fence; see BMP SE-1, Silt Fence. Do not place fabric underneath the inlet grate since the collected sediment may fall into the drain inlet when the fabric is removed or replaced and water flow through the grate will be blocked resulting in flooding. See typical Type 1 installation details at the end of this fact sheet.

  1. Excavate a trench approximately 6 in. wide and 6 in. deep along the line of the silt fence inlet protection device.

  2. Place 2 in. by 2 in. wooden stakes around the perimeter of the inlet a maximum of 3 ft apart and drive them at least 18 in. into the ground or 12 in. below the bottom of the trench. The stakes should be at least 48 in.

  3. Lay fabric along bottom of trench, up side of trench, and then up stakes. See SE-1, Silt Fence, for details. The maximum silt fence height around the inlet is 24 in.

  4. Staple the filter fabric (for materials and specifications, see SE-1, Silt Fence) to wooden stakes. Use heavy-duty wire staples at least 1 in. in length.

5. Backfill the trench with gravel or compacted earth all the way around.

- ***DI Protection Type 2 - Excavated Drop Inlet Sediment Trap -*** Install filter fabric fence in accordance with DI Protection Type 1. Size excavated trap to provide a minimum storage capacity calculated at the rate 67 yd^3/acre of drainage area. See typical Type 2 installation details at the end of this fact sheet.

- ***DI Protection Type 3 - Gravel bag -*** Flow from a severe storm should not overtop the curb. In areas of high clay and silts, use filter fabric and gravel as additional filter media. Construct gravel bags in accordance with SE-6, Gravel Bag Berm. Gravel bags should be used due to their high permeability. See typical Type 3 installation details at the end of this fact sheet.

  1. Construct on gently sloping street.

  2. Leave room upstream of barrier for water to pond and sediment to settle.

  3. Place several layers of gravel bags – overlapping the bags and packing them tightly together.

  4. Leave gap of one bag on the top row to serve as a spillway. Flow from a severe storm (e.g., 10-year storm) should not overtop the curb.

- ***DI Protection Type 4 – Block and Gravel Filter -*** Block and gravel filters are suitable for curb inlets commonly used in residential, commercial, and industrial construction. See typical Type 4 installation details at the end of this fact sheet.

  1. Place hardware cloth or comparable wire mesh with 0.5 in. openings over the drop inlet so that the wire extends a minimum of 1 ft beyond each side of the inlet structure. If more than one strip is necessary, overlap the strips. Place woven geotextile over the wire mesh.

  2. Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, so that the open ends face outward, not upward. The ends of adjacent blocks should abut. The height of the barrier can be varied, depending on design needs, by stacking combinations of blocks that are 4 in., 8 in., and 12 in. wide. The row of blocks should be at least 12 in. but no greater than 24 in. high.

  3. Place wire mesh over the outside vertical face (open end) of the concrete blocks to prevent stone from being washed through the blocks. Use hardware cloth or comparable wire mesh with 0.5 in. opening.

  4. Pile washed stone against the wire mesh to the top of the blocks. Use 0.75 to 3 in.

- ***DI Protection Type 5 – Temporary Geotextile Insert (proprietary) –*** Many types of temporary inserts are available. Most inserts fit underneath the grate of a drop inlet or inside of a curb inlet and are fastened to the outside of the grate or curb. These inserts are removable, and many can be cleaned and reused. Installation of these inserts differs between manufacturers. Please refer to manufacturer instruction for installation of proprietary devices.

- ***DI Protection Type 6 - Biofilter bags*** – Biofilter bags may be used as a substitute for gravel bags in low-flow situations. Biofilter bags should conform to specifications detailed in SE-14, Biofilter bags.

    1. Construct in a gently sloping area.
    2. Biofilter bags should be placed around inlets to intercept runoff flows.
    3. All bag joints should overlap by 6 in.
    4. Leave room upstream for water to pond and for sediment to settle out.
    5. Stake bags to the ground as described in the following detail. Stakes may be omitted if bags are placed on a paved surface.

- ***DI Protection Type 7 – Compost Socks*** – A compost sock can be assembled on site by filling a mesh sock (e.g., with a pneumatic blower). Compost socks do not require special trenching compared to other sediment control methods (e.g., silt fence). Compost socks should conform to specification detailed in SE-13, Compost Socks and Berms.

Costs

- Average annual cost for installation and maintenance of DI Type 1-4 and 6 (one-year useful life) is $200 per inlet.
- Temporary geotextile inserts are proprietary, and cost varies by region. These inserts can often be reused and may have greater than 1 year of use if maintained and kept undamaged. Average cost per insert ranges from $50-75 plus installation, but costs can exceed $100. This cost does not include maintenance.
- See SE-13 for Compost Sock cost information.

Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Silt Fences. If the fabric becomes clogged, torn, or degrades, it should be replaced. Make sure the stakes are securely driven in the ground and are in good shape (i.e., not bent, cracked, or splintered, and are reasonably perpendicular to the ground). Replace damaged stakes. At a minimum, remove the sediment behind the fabric fence when accumulation reaches one-third the height of the fence or barrier height.
- Gravel Filters. If the gravel becomes clogged with sediment, it should be carefully removed from the inlet and either cleaned or replaced. Since cleaning gravel at a construction site may be difficult, consider using the sediment-laden stone as fill material and put fresh stone around the inlet. Inspect bags for holes, gashes, and snags, and replace bags as needed. Check gravel bags for proper arrangement and displacement.

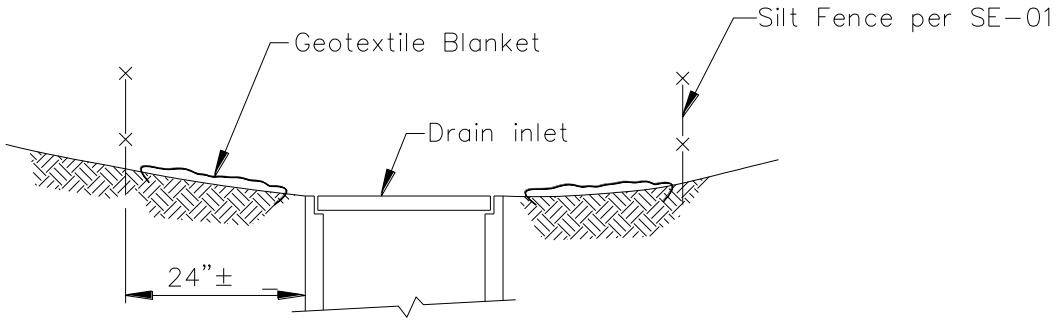
- Sediment that accumulates in the BMP should be periodically removed in order to maintain BMP effectiveness. Sediment should be removed when the sediment accumulation reaches one-third of the barrier height.
- Inspect and maintain temporary geotextile insert devices according to manufacturer's specifications.
- Remove storm drain inlet protection once the drainage area is stabilized.
    - Clean and regrade area around the inlet and clean the inside of the storm drain inlet, as it should be free of sediment and debris at the time of final inspection.

References

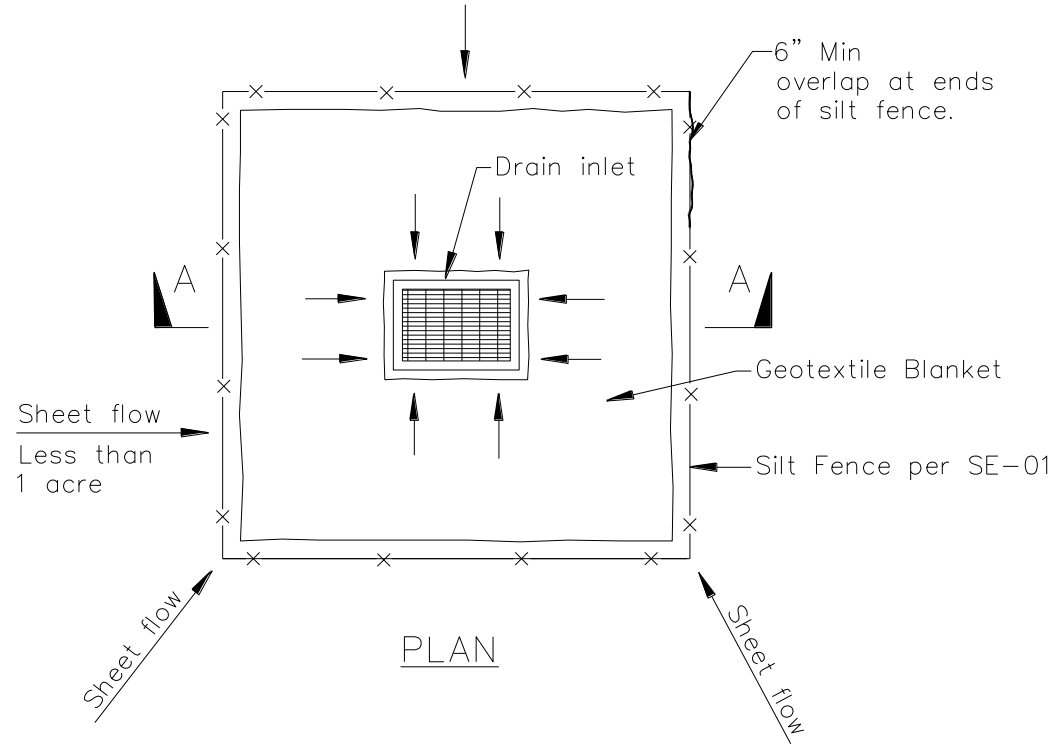
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Stormwater Management Manual for The Puget Sound Basin, Washington State Department of Ecology, Public Review Draft, 1991.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.



SECTION A–A

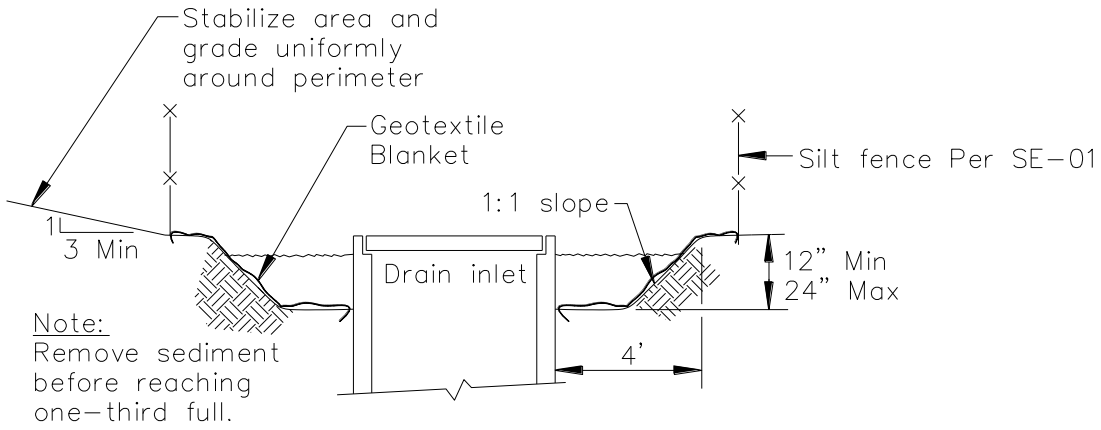


PLAN

DI PROTECTION TYPE 1
NOT TO SCALE

NOTES:

1. For use in areas where grading has been completed and final soil stabilization and seeding are pending.
2. Not applicable in paved areas.
3. Not applicable with concentrated flows.



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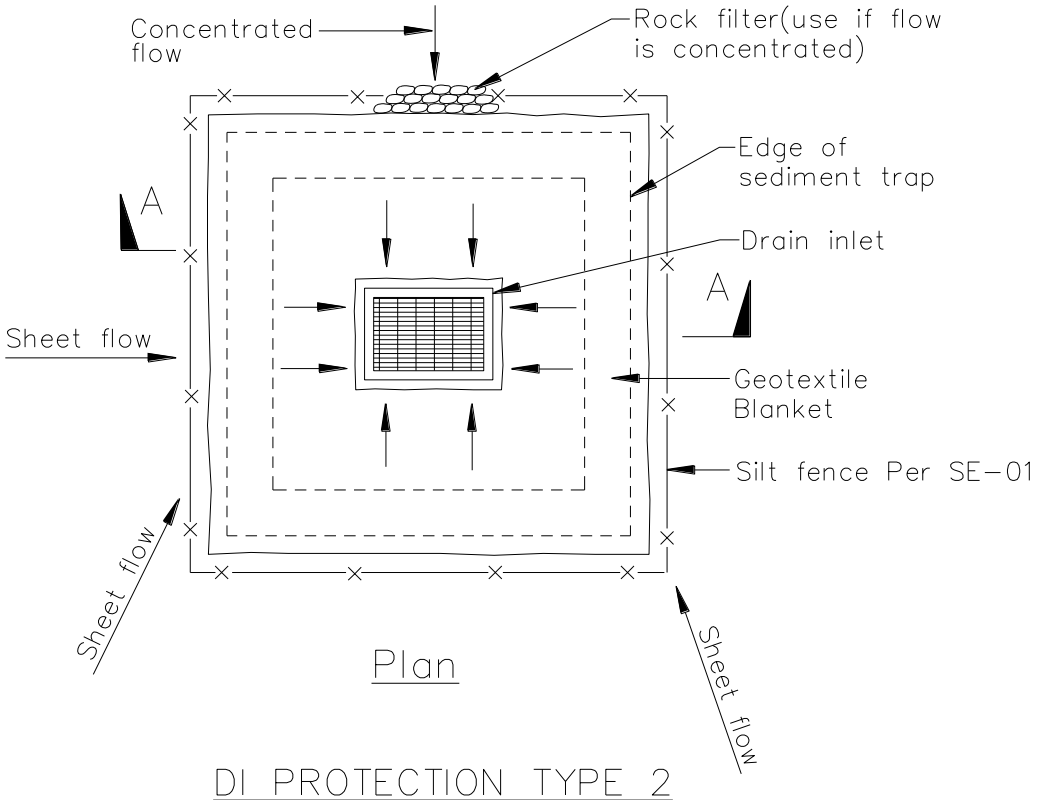
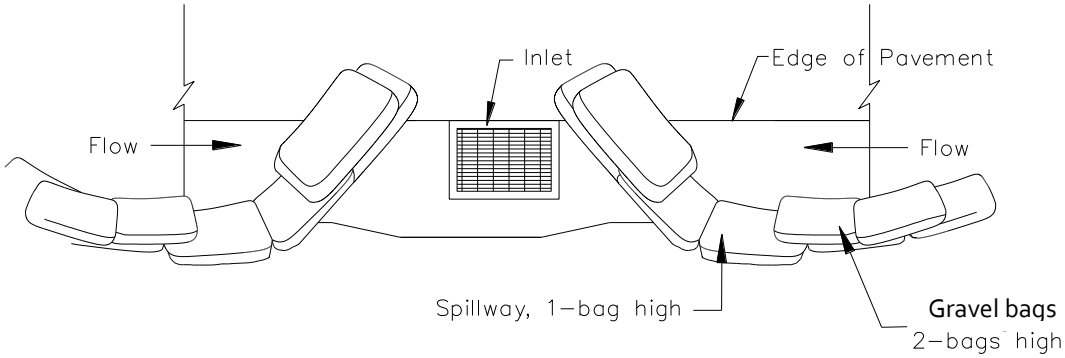


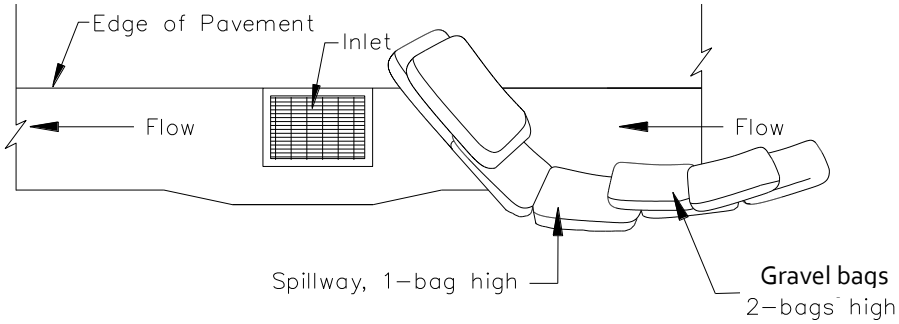
Plan

DI PROTECTION TYPE 2
NOT TO SCALE

Notes
1. For use in cleared and grubbed and in graded areas.
2. Shape basin so that longest inflow area faces longest length of trap.
3. For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.



TYPICAL PROTECTION FOR INLET ON SUMP

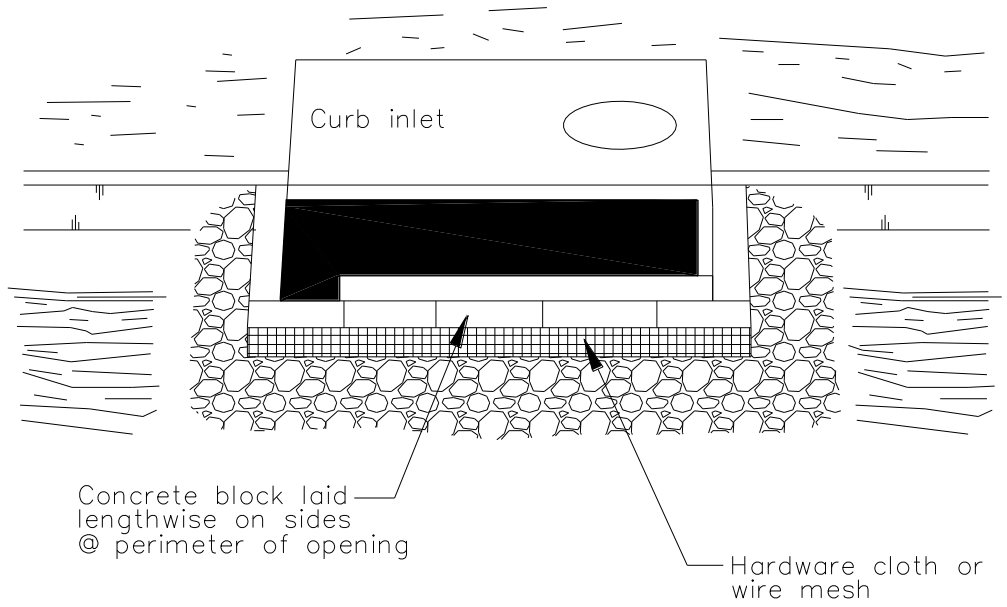


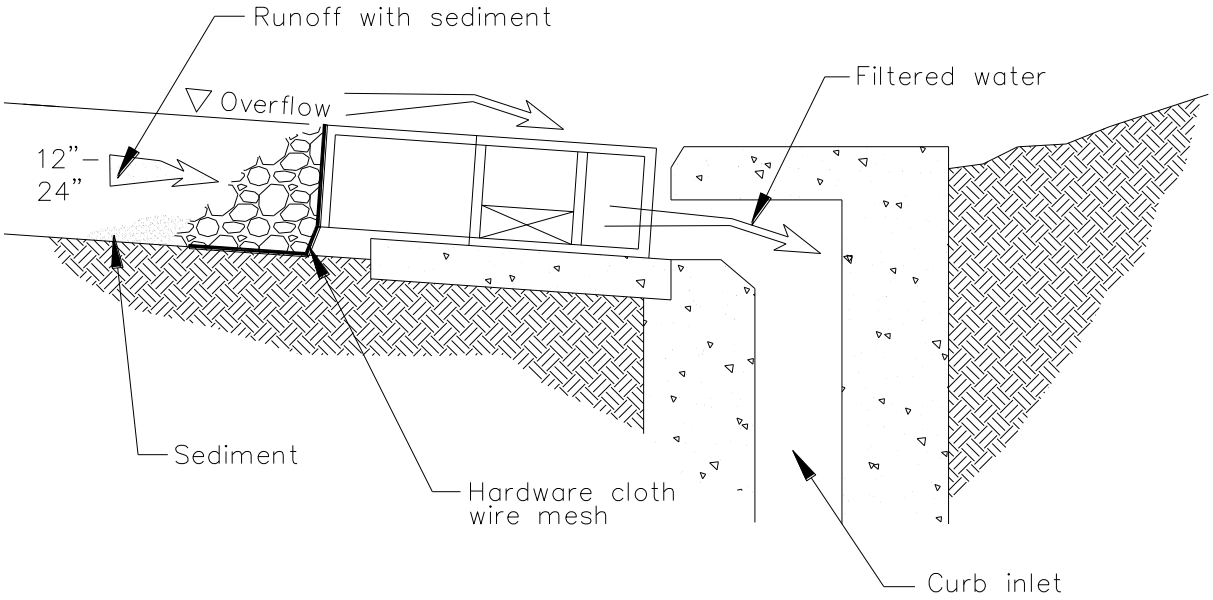
TYPICAL PROTECTION FOR INLET ON GRADE

NOTES:

1. Intended for short-term use.
2. Use to inhibit non-storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed
5. Not applicable in areas with high silts and clays without filter fabric.
6. Protection can be effective even if it is not immediately adjacent to the inlet provided that the inlet is protected from potential sources of pollution.

DI PROTECTION TYPE 3
NOT TO SCALE

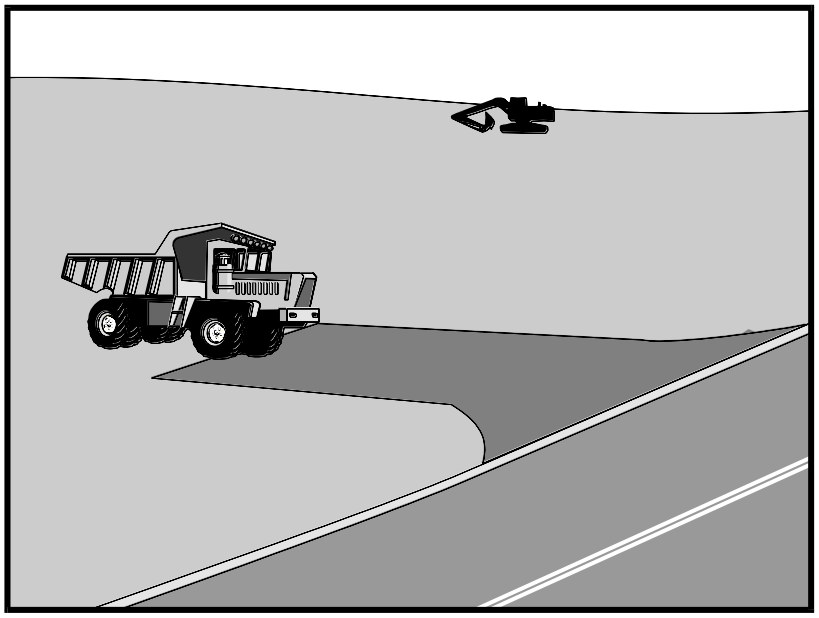




DI PROTECTION – TYPE 4

NOT TO SCALE

Stabilized Construction Entrance/Exit TC-1



Categories		
EC	Erosion Control	☒
SE	Sediment Control	☒
TC	Tracking Control	☑
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ **Primary Objective**
☒ **Secondary Objective**

Description and Purpose
A stabilized construction access is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Suitable Applications
Use at construction sites:

- Where dirt or mud can be tracked onto public roads.
- Adjacent to water bodies.
- Where poor soils are encountered.
- Where dust is a problem during dry weather conditions.

Limitations
- Entrances and exits require periodic top dressing with additional stones.
- This BMP should be used in conjunction with street sweeping on adjacent public right of way.
- Entrances and exits should be constructed on level ground only.
- Stabilized construction entrances are rather expensive to construct and when a wash rack is included, a sediment trap of some kind must also be provided to collect wash water runoff.

Targeted Constituents	
Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

None

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Implementation

General

A stabilized construction entrance is a pad of aggregate underlain with filter cloth located at any point where traffic will be entering or leaving a construction site to or from a public right of way, street, alley, sidewalk, or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking of sediment onto public rights of way or streets. Reducing tracking of sediments and other pollutants onto paved roads helps prevent deposition of sediments into local storm drains and production of airborne dust.

Where traffic will be entering or leaving the construction site, a stabilized construction entrance should be used. NPDES permits require that appropriate measures be implemented to prevent tracking of sediments onto paved roadways, where a significant source of sediments is derived from mud and dirt carried out from unpaved roads and construction sites.

Stabilized construction entrances are moderately effective in removing sediment from equipment leaving a construction site. The entrance should be built on level ground. Advantages of the Stabilized Construction Entrance/Exit is that it does remove some sediment from equipment and serves to channel construction traffic in and out of the site at specified locations. Efficiency is greatly increased when a washing rack is included as part of a stabilized construction entrance/exit.

Design and Layout

- Construct on level ground where possible.
- Select 3 to 6 in. diameter stones.
- Use minimum depth of stones of 12 in. or as recommended by soils engineer.
- Construct length of 50 ft or maximum site will allow, and 10 ft minimum width or to accommodate traffic.
- Rumble racks constructed of steel panels with ridges and installed in the stabilized entrance/exit will help remove additional sediment and to keep adjacent streets clean.
- Provide ample turning radii as part of the entrance.
- Limit the points of entrance/exit to the construction site.
- Limit speed of vehicles to control dust.
- Properly grade each construction entrance/exit to prevent runoff from leaving the construction site.
- Route runoff from stabilized entrances/exits through a sediment trapping device before discharge.
- Design stabilized entrance/exit to support heaviest vehicles and equipment that will use it.

- Select construction access stabilization (aggregate, asphaltic concrete, concrete) based on longevity, required performance, and site conditions. Do not use asphalt concrete (AC) grindings for stabilized construction access/roadway.
- If aggregate is selected, place crushed aggregate over geotextile fabric to at least 12 in. depth, or place aggregate to a depth recommended by a geotechnical engineer. A crushed aggregate greater than 3 in. but smaller than 6 in. should be used.
- Designate combination or single purpose entrances and exits to the construction site.
- Require that all employees, subcontractors, and suppliers utilize the stabilized construction access.
- Implement SE-7, Street Sweeping and Vacuuming, as needed.
- All exit locations intended to be used for more than a two-week period should have stabilized construction entrance/exit BMPs.

Inspection and Maintenance

- Inspect and verify that activity–based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMPs are under way, inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Inspect local roads adjacent to the site daily. Sweep or vacuum to remove visible accumulated sediment.
- Remove aggregate, separate and dispose of sediment if construction entrance/exit is clogged with sediment.
- Keep all temporary roadway ditches clear.
- Check for damage and repair as needed.
- Replace gravel material when surface voids are visible.
- Remove all sediment deposited on paved roadways within 24 hours.
- Remove gravel and filter fabric at completion of construction

Costs

Average annual cost for installation and maintenance may vary from $1,500 to $6,100 each, averaging $3,100 per entrance. Costs will increase with addition of washing rack and sediment trap. With wash rack, costs range from $1,500 - $7,700 each, averaging $4,600 per entrance (All costs adjusted for inflation, 2016 dollars, by Tetra Tech Inc.

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Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

National Management Measures to Control Nonpoint Source Pollution from Urban Areas, USEPA Agency, 2002.

Proposed Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters, Work Group Working Paper, USEPA, April 1992.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

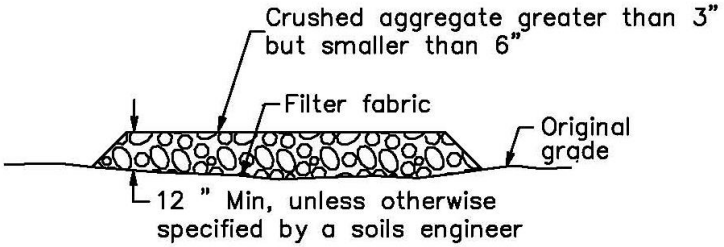
Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

Virginia Erosion and Sedimentation Control Handbook, Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, 1991.

Guidance Specifying Management Measures for Nonpoint Pollution in Coastal Waters, EPA 840-B-9-002, USEPA, Office of Water, Washington, DC, 1993.

Water Quality Management Plan for the Lake Tahoe Region, Volume II, Handbook of Management Practices, Tahoe Regional Planning Agency, November 1988.

Stabilized Construction Entrance/Exit TC-1



SECTION B–B
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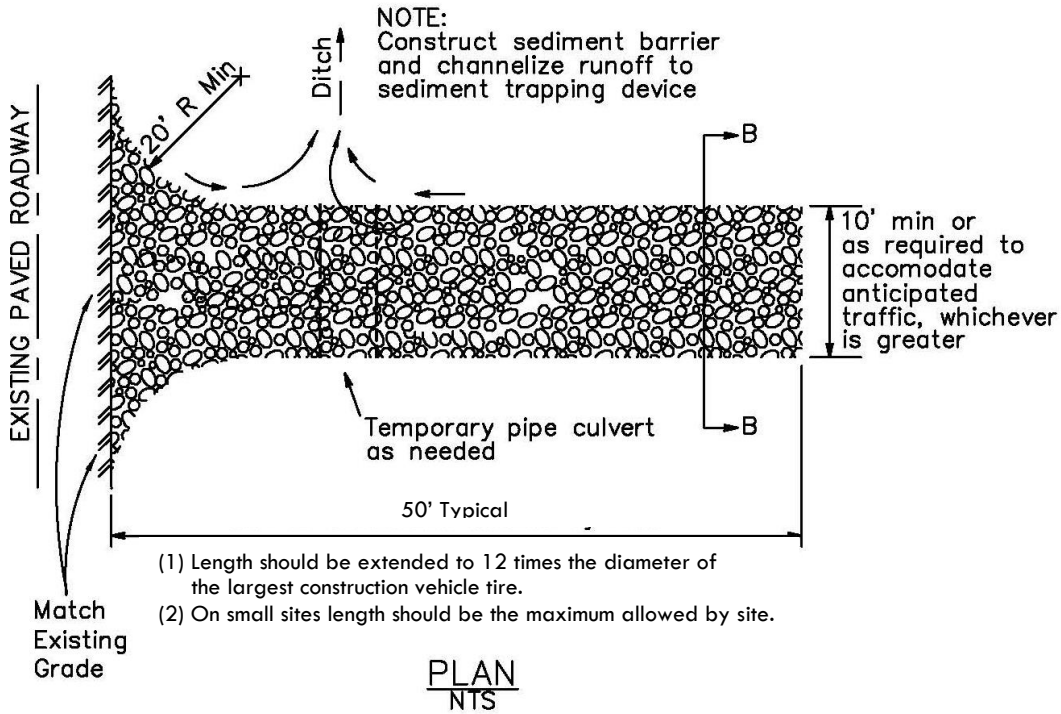
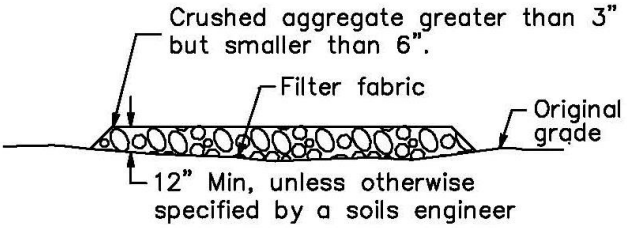


PLAN
NTS

Stabilized Construction Entrance/Exit TC-1



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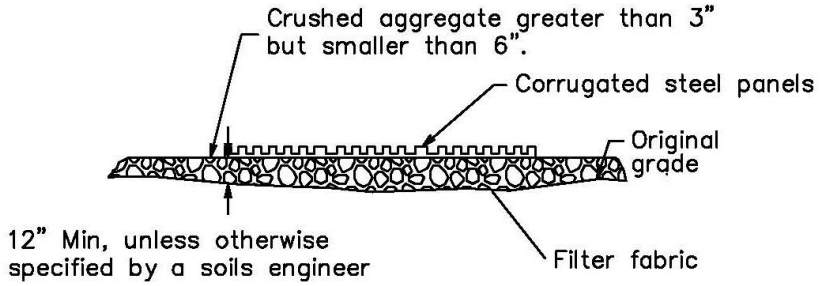

SECTION A–A
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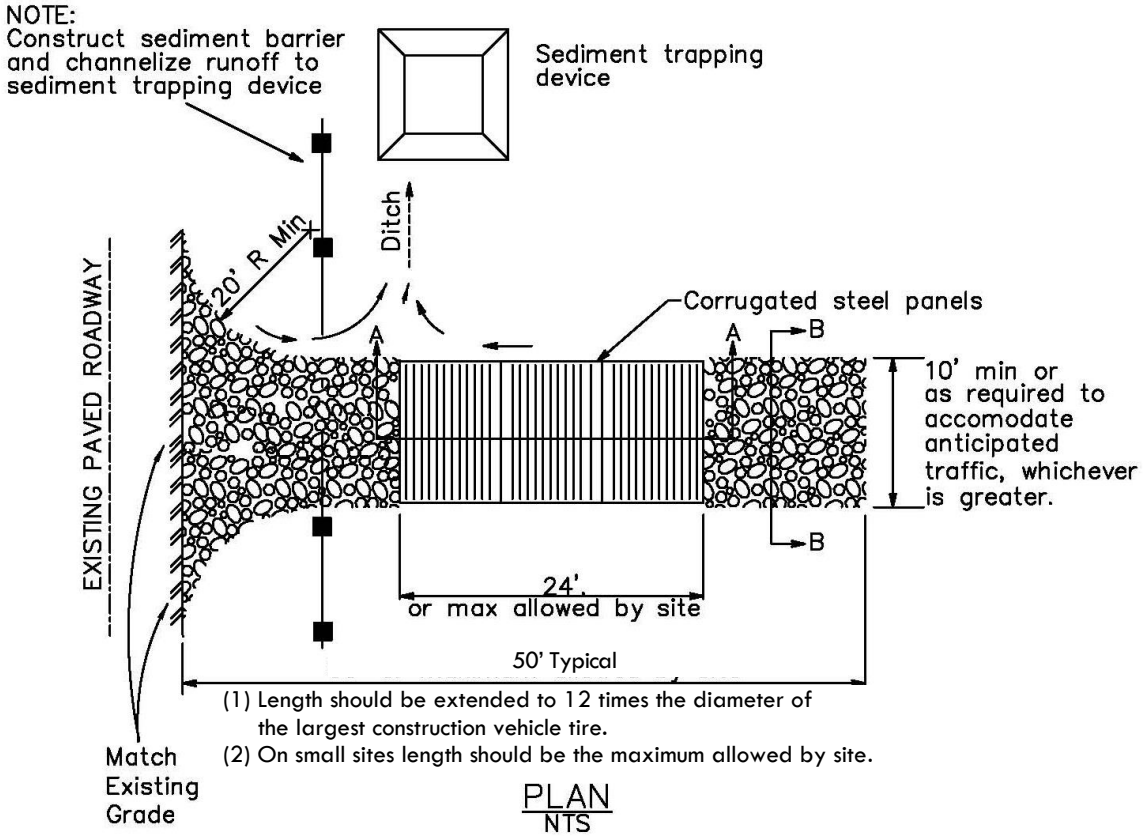
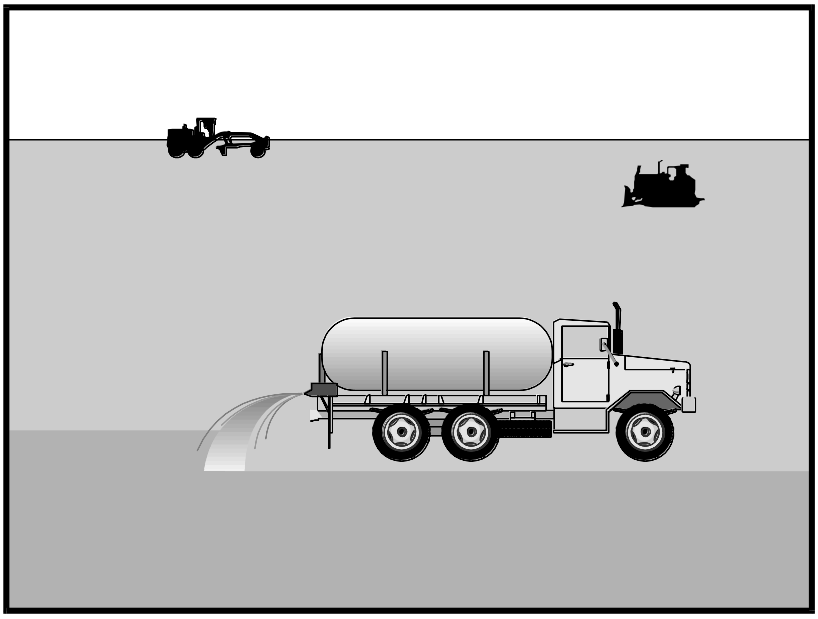


PLAN
NTS

Wind Erosion Control WE-1



Categories

EC	Erosion Control	
SE	Sediment Control	☒
TC	Tracking Control	
WE	Wind Erosion Control	☑
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

EC-5 Soil Binders

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Description and Purpose

Wind erosion or dust control consists of applying water or other chemical dust suppressants as necessary to prevent or alleviate dust nuisance generated by construction activities. Covering small stockpiles or areas is an alternative to applying water or other dust palliatives.

California's Mediterranean climate, with a short "wet" season and a typically long, hot "dry" season, allows the soils to thoroughly dry out. During the dry season, construction activities are at their peak, and disturbed and exposed areas are increasingly subject to wind erosion, sediment tracking, and dust generated by construction equipment. Site conditions and climate can make dust control more of an erosion problem than water-based erosion. Additionally, many local agencies, including Air Quality Management Districts, require dust control and/or dust control permits in order to comply with local nuisance laws, opacity laws (visibility impairment) and the requirements of the Clean Air Act. Wind erosion control is required to be implemented at all construction sites greater than 1 acre by the General Permit.

Suitable Applications

Most BMPs that provide protection against water-based erosion will also protect against wind-based erosion and dust control requirements required by other agencies will generally meet wind erosion control requirements for water quality protection. Wind erosion control BMPs are suitable during the following construction activities:

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- Construction vehicle traffic on unpaved roads
- Drilling and blasting activities
- Soils and debris storage piles
- Batch drop from front-end loaders
- Areas with unstabilized soil
- Final grading/site stabilization

Limitations

- Watering prevents dust only for a short period (generally less than a few hours) and should be applied daily (or more often) to be effective.
- Over watering may cause erosion and track-out.
- Oil or oil-treated subgrade should not be used for dust control because the oil may migrate into drainageways and/or seep into the soil.
- Chemical dust suppression agents may have potential environmental impacts. Selected chemical dust control agents should be environmentally benign.
- Effectiveness of controls depends on soil, temperature, humidity, wind velocity and traffic.
- Chemical dust suppression agents should not be used within 100 feet of wetlands or water bodies.
- Chemically treated subgrades may make the soil water repellant, interfering with long-term infiltration and the vegetation/re-vegetation of the site. Some chemical dust suppressants may be subject to freezing and may contain solvents and should be handled properly.
- In compacted areas, watering and other liquid dust control measures may wash sediment or other constituents into the drainage system.
- If the soil surface has minimal natural moisture, the affected area may need to be pre-wetted so that chemical dust control agents can uniformly penetrate the soil surface.

Implementation

Dust Control Practices

Dust control BMPs generally stabilize exposed surfaces and minimize activities that suspend or track dust particles. The following table presents dust control practices that can be applied to varying site conditions that could potentially cause dust. For heavily traveled and disturbed areas, wet suppression (watering), chemical dust suppression, gravel asphalt surfacing, temporary gravel construction entrances, equipment wash-out areas, and haul truck covers can be employed as dust control applications. Permanent or temporary vegetation and mulching can be employed for areas of occasional or no construction traffic. Preventive measures include minimizing surface areas to be disturbed, limiting onsite vehicle traffic to 15 mph or less, and controlling the number and activity of vehicles on a site at any given time.

Chemical dust suppressants include: mulch and fiber based dust palliatives (e.g. paper mulch with gypsum binder), salts and brines (e.g. calcium chloride, magnesium chloride), non-petroleum based organics (e.g. vegetable oil, lignosulfonate), petroleum based organics (e.g. asphalt emulsion, dust oils, petroleum resins), synthetic polymers (e.g. polyvinyl acetate, vinyl, acrylic), clay additives (e.g. bentonite, montmorillonite) and electrochemical products (e.g. enzymes, ionic products).

Site Condition	Dust Control Practices							
	Permanent Vegetation	Mulching	Wet Suppression (Watering)	Chemical Dust Suppression	Gravel or Asphalt	Temporary Gravel Construction Entrances/Equipment Wash Down	Synthetic Covers	Minimize Extent of Disturbed Area
Disturbed Areas not Subject to Traffic	x	x	x	x	x			x
Disturbed Areas Subject to Traffic			x	x	x	x		x
Material Stockpiles		x	x	x			x	x
Demolition			x			x	x	
Clearing/ Excavation			x	x				x
Truck Traffic on Unpaved Roads			x	x	x	x	x	
Tracking					x	x		

Additional preventive measures include:

- Schedule construction activities to minimize exposed area (see EC-1, Scheduling).
- Quickly treat exposed soils using water, mulching, chemical dust suppressants, or stone/gravel layering.
- Identify and stabilize key access points prior to commencement of construction.
- Minimize the impact of dust by anticipating the direction of prevailing winds.
- Restrict construction traffic to stabilized roadways within the project site, as practicable.
- Water should be applied by means of pressure-type distributors or pipelines equipped with a spray system or hoses and nozzles that will ensure even distribution.
- All distribution equipment should be equipped with a positive means of shutoff.
- Unless water is applied by means of pipelines, at least one mobile unit should be available at all times to apply water or dust palliative to the project.
- If reclaimed waste water is used, the sources and discharge must meet California Department of Health Services water reclamation criteria and the Regional Water Quality

Control Board (RWQCB) requirements. Non-potable water should not be conveyed in tanks or drain pipes that will be used to convey potable water and there should be no connection between potable and non-potable supplies. Non-potable tanks, pipes, and other conveyances should be marked, "NON-POTABLE WATER - DO NOT DRINK."

- Pave or chemically stabilize access points where unpaved traffic surfaces adjoin paved roads.
- Provide covers for haul trucks transporting materials that contribute to dust.
- Provide for rapid clean up of sediments deposited on paved roads. Furnish stabilized construction road entrances and wheel wash areas.
- Stabilize inactive areas of construction sites using temporary vegetation or chemical stabilization methods.

For chemical stabilization, there are many products available for chemically stabilizing gravel roadways and stockpiles. If chemical stabilization is used, the chemicals should not create any adverse effects on stormwater, plant life, or groundwater and should meet all applicable regulatory requirements.

Costs

Installation costs for water and chemical dust suppression vary based on the method used and the length of effectiveness. Annual costs may be high since some of these measures are effective for only a few hours to a few days.

Inspection and Maintenance

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities.
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Check areas protected to ensure coverage.
- Most water-based dust control measures require frequent application, often daily or even multiple times per day. Obtain vendor or independent information on longevity of chemical dust suppressants.

References

Best Management Practices and Erosion Control Manual for Construction Sites, Flood Control District of Maricopa County, Arizona, September 1992.

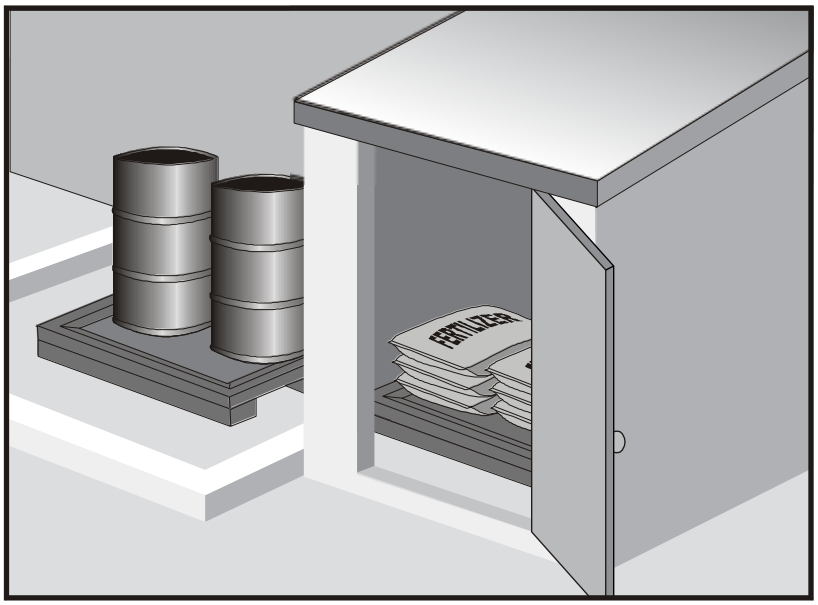
California Air Pollution Control Laws, California Air Resources Board, updated annually.

Construction Manual, Chapter 4, Section 10, "Dust Control"; Section 17, "Watering"; and Section 18, "Dust Palliative", California Department of Transportation (Caltrans), July 2001.

Prospects for Attaining the State Ambient Air Quality Standards for Suspended Particulate Matter (PM10), Visibility Reducing Particles, Sulfates, Lead, and Hydrogen Sulfide, California Air Resources Board, April 1991.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Material Delivery and Storage WM-1



Categories		
EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	☑

Legend:
☑ **Primary Category**
☒ **Secondary Category**

Description and Purpose

Prevent, reduce, or eliminate the discharge of pollutants from material delivery and storage to the stormwater system or watercourses by minimizing the storage of hazardous materials onsite, storing materials in watertight containers and/or a completely enclosed designated area, installing secondary containment, conducting regular inspections, and training employees and subcontractors.

This best management practice covers only material delivery and storage. For other information on materials, see WM-2, Material Use, or WM-4, Spill Prevention and Control. For information on wastes, see the waste management BMPs in this section.

Suitable Applications

These procedures are suitable for use at all construction sites with delivery and storage of the following materials:

- Soil stabilizers and binders
- Pesticides and herbicides
- Fertilizers
- Detergents
- Plaster
- Petroleum products such as fuel, oil, and grease

Targeted Constituents	
Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

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- Asphalt and concrete components
- Hazardous chemicals such as acids, lime, glues, adhesives, paints, solvents, and curing compounds
- Concrete compounds
- Other materials that may be detrimental if released to the environment

Limitations

- Space limitation may preclude indoor storage.
- Storage sheds often must meet building and fire code requirements.

Implementation

The following steps should be taken to minimize risk:

- Chemicals must be stored in water tight containers with appropriate secondary containment or in a storage shed.
- When a material storage area is located on bare soil, the area should be lined and bermed.
- Use containment pallets or other practical and available solutions, such as storing materials within newly constructed buildings or garages, to meet material storage requirements.
- Stack erodible landscape material on pallets and cover when not in use.
- Contain all fertilizers and other landscape materials when not in use.
- Temporary storage areas should be located away from vehicular traffic.
- Material Safety Data Sheets (MSDS) should be available on-site for all materials stored that have the potential to effect water quality.
- Construction site areas should be designated for material delivery and storage.
- Material delivery and storage areas should be located away from waterways, if possible.
    - Avoid transport near drainage paths or waterways.
    - Surround with earth berms or other appropriate containment BMP. See EC-9, Earth Dikes and Drainage Swales.
    - Place in an area that will be paved.
- Storage of reactive, ignitable, or flammable liquids must comply with the fire codes of your area. Contact the local Fire Marshal to review site materials, quantities, and proposed storage area to determine specific requirements. See the Flammable and Combustible Liquid Code, NFPA30.
- An up to date inventory of materials delivered and stored onsite should be kept.

- Hazardous materials storage onsite should be minimized.
- Hazardous materials should be handled as infrequently as possible.
- Keep ample spill cleanup supplies appropriate for the materials being stored. Ensure that cleanup supplies are in a conspicuous, labeled area.
- Employees and subcontractors should be trained on the proper material delivery and storage practices.
- Employees trained in emergency spill cleanup procedures must be present when dangerous materials or liquid chemicals are unloaded.
- If significant residual materials remain on the ground after construction is complete, properly remove and dispose of materials and any contaminated soil. See WM-7, Contaminated Soil Management. If the area is to be paved, pave as soon as materials are removed to stabilize the soil.

Material Storage Areas and Practices

- Liquids, petroleum products, and substances listed in 40 CFR Parts 110, 117, or 302 should be stored in approved containers and drums and should not be overfilled. Containers and drums should be placed in temporary containment facilities for storage.
- A temporary containment facility should provide for a spill containment volume able to contain precipitation from a 25-year storm event, plus the greater of 10% of the aggregate volume of all containers or 100% of the capacity of the largest container within its boundary, whichever is greater.
- A temporary containment facility should be impervious to the materials stored therein for a minimum contact time of 72 hours.
- A temporary containment facility should be maintained free of accumulated rainwater and spills. In the event of spills or leaks, accumulated rainwater and spills should be collected and placed into drums. These liquids should be handled as a hazardous waste unless testing determines them to be non-hazardous. All collected liquids or non-hazardous liquids should be sent to an approved disposal site.
- Sufficient separation should be provided between stored containers to allow for spill cleanup and emergency response access.
- Incompatible materials, such as chlorine and ammonia, should not be stored in the same temporary containment facility.
- Materials should be covered prior to, and during rain events.
- Materials should be stored in their original containers and the original product labels should be maintained in place in a legible condition. Damaged or otherwise illegible labels should be replaced immediately.

- Bagged and boxed materials should be stored on pallets and should not be allowed to accumulate on the ground. To provide protection from wind and rain throughout the rainy season, bagged and boxed materials should be covered during non-working days and prior to and during rain events.
- Stockpiles should be protected in accordance with WM-3, Stockpile Management.
- Materials should be stored indoors within existing structures or completely enclosed storage sheds when available.
- Proper storage instructions should be posted at all times in an open and conspicuous location.
- An ample supply of appropriate spill clean up material should be kept near storage areas.
- Also see WM-6, Hazardous Waste Management, for storing of hazardous wastes.

Material Delivery Practices

- Keep an accurate, up-to-date inventory of material delivered and stored onsite.
- Arrange for employees trained in emergency spill cleanup procedures to be present when dangerous materials or liquid chemicals are unloaded.

Spill Cleanup

- Contain and clean up any spill immediately.
- Properly remove and dispose of any hazardous materials or contaminated soil if significant residual materials remain on the ground after construction is complete. See WM-7, Contaminated Soil Management.
- See WM-4, Spill Prevention and Control, for spills of chemicals and/or hazardous materials.
- If spills or leaks of materials occur that are not contained and could discharge to surface waters, non-visible sampling of site discharge may be required. Refer to the General Permit or to your project specific Construction Site Monitoring Plan to determine if and where sampling is required.

Cost

- The largest cost of implementation may be in the construction of a materials storage area that is covered and provides secondary containment.

Inspection and Maintenance

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Keep storage areas clean and well organized, including a current list of all materials onsite.
- Inspect labels on containers for legibility and accuracy.

- Repair or replace perimeter controls, containment structures, covers, and liners as needed to maintain proper function.

References

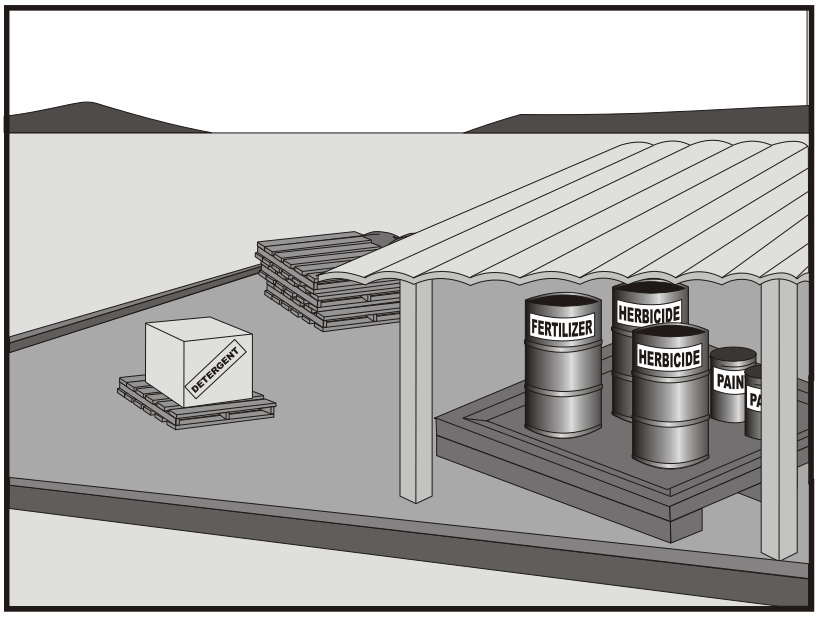
Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

Coastal Nonpoint Pollution Control Program: Program Development and Approval Guidance, Working Group Working Paper; USEPA, April 1992.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practice, EPA 832-R-92005; USEPA, April 1992.

Material Use WM-2



Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	☑

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

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Description and Purpose

Prevent or reduce the discharge of pollutants to the storm drain system or watercourses from material use by using alternative products, minimizing hazardous material use onsite, and training employees and subcontractors.

Suitable Applications

This BMP is suitable for use at all construction projects. These procedures apply when the following materials are used or prepared onsite:

- Pesticides and herbicides
- Fertilizers
- Detergents
- Petroleum products such as fuel, oil, and grease
- Asphalt and other concrete components
- Other hazardous chemicals such as acids, lime, glues, adhesives, paints, solvents, and curing compounds
- Other materials that may be detrimental if released to the environment

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Limitations

Safer alternative building and construction products may not be available or suitable in every instance.

Implementation

The following steps should be taken to minimize risk:

- Minimize use of hazardous materials onsite.
- Follow manufacturer instructions regarding uses, protective equipment, ventilation, flammability, and mixing of chemicals.
- Train personnel who use pesticides. The California Department of Pesticide Regulation and county agricultural commissioners license pesticide dealers, certify pesticide applicators, and conduct onsite inspections.
- The preferred method of termiticide application is soil injection near the existing or proposed structure foundation/slab; however, if not feasible, soil drench application of termiticides should follow EPA label guidelines and the following recommendations (most of which are applicable to most pesticide applications):
  - Do not treat soil that is water-saturated or frozen.
  - Application shall not commence within 24-hours of a predicted precipitation event with a 40% or greater probability. Weather tracking must be performed on a daily basis prior to termiticide application and during the period of termiticide application.
  - Do not allow treatment chemicals to runoff from the target area. Apply proper quantity to prevent excess runoff. Provide containment for and divert stormwater from application areas using berms or diversion ditches during application.
  - Dry season: Do not apply within 10 feet of storm drains. Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or ponds; estuaries; and commercial fish farm ponds).
  - Wet season: Do not apply within 50 feet of storm drains or aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or ponds; estuaries; and commercial fish farm ponds) unless a vegetative buffer is present (if so, refer to dry season requirements).
  - Do not make on-grade applications when sustained wind speeds are above 10 mph (at application site) at nozzle end height.
  - Cover treatment site prior to a rain event in order to prevent run-off of the pesticide into non-target areas. The treated area should be limited to a size that can be backfilled and/or covered by the end of the work shift. Backfilling or covering of the treated area shall be done by the end of the same work shift in which the application is made.
  - The applicator must either cover the soil him/herself or provide written notification of the above requirement to the contractor on site and to the person commissioning the

application (if different than the contractor). If notice is provided to the contractor or the person commissioning the application, then they are responsible under the Federal Insecticide Fungicide, and Rodenticide Act (FIFRA) to ensure that: 1) if the concrete slab cannot be poured over the treated soil within 24 hours of application, the treated soil is covered with a waterproof covering (such as polyethylene sheeting), and 2) the treated soil is covered if precipitation is predicted to occur before the concrete slab is scheduled to be poured.

- Do not over-apply fertilizers, herbicides, and pesticides. Prepare only the amount needed. Follow the recommended usage instructions. Over-application is expensive and environmentally harmful. Unless on steep slopes, till fertilizers into the soil rather than hydraulic application. Apply surface dressings in several smaller applications, as opposed to one large application, to allow time for infiltration and to avoid excess material being carried offsite by runoff. Do not apply these chemicals before predicted rainfall.
- Train employees and subcontractors in proper material use.
- Supply Material Safety Data Sheets (MSDS) for all materials.
- Dispose of latex paint and paint cans, used brushes, rags, absorbent materials, and drop cloths, when thoroughly dry and are no longer hazardous, with other construction debris.
- Do not remove the original product label; it contains important safety and disposal information. Use the entire product before disposing of the container.
- Mix paint indoors or in a containment area. Never clean paintbrushes or rinse paint containers into a street, gutter, storm drain, or watercourse. Dispose of any paint thinners, residue, and sludge(s) that cannot be recycled, as hazardous waste.
- For water-based paint, clean brushes to the extent practicable, and rinse to a drain leading to a sanitary sewer where permitted or contain for proper disposal off site. For oil-based paints, clean brushes to the extent practicable, and filter and reuse thinners and solvents.
- Use recycled and less hazardous products when practical. Recycle residual paints, solvents, non-treated lumber, and other materials.
- Use materials only where and when needed to complete the construction activity. Use safer alternative materials as much as possible. Reduce or eliminate use of hazardous materials onsite when practical.
- Document the location, time, chemicals applied, and applicator's name and qualifications.
- Keep an ample supply of spill clean up material near use areas. Train employees in spill clean up procedures.
- Avoid exposing applied materials to rainfall and runoff unless sufficient time has been allowed for them to dry.
- Discontinue use of erodible landscape material within 2 days prior to a forecasted rain event and materials should be covered and/or bermed.

- Provide containment for material use areas such as masons' areas or paint mixing/preparation areas to prevent materials/pollutants from entering stormwater.

Costs

All of the above are low cost measures.

Inspection and Maintenance

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities.
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Ensure employees and subcontractors throughout the job are using appropriate practices.

References

Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

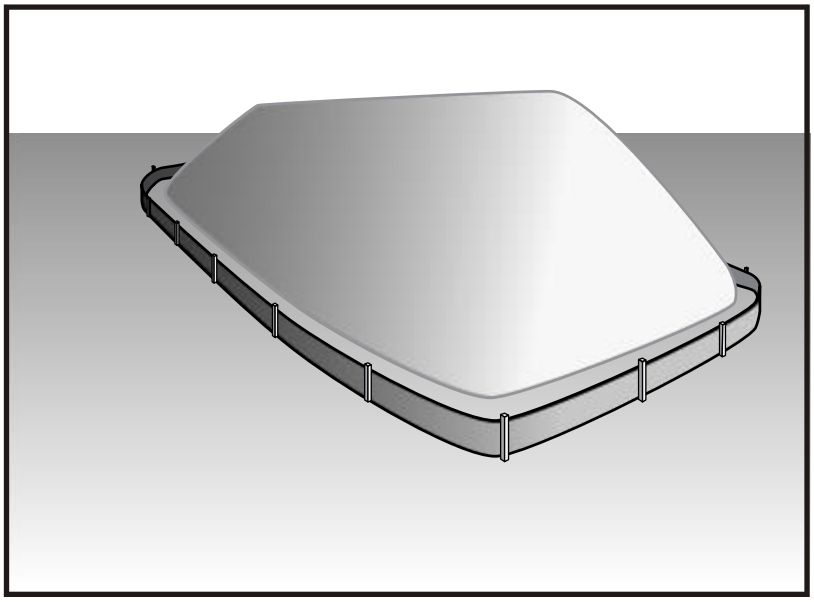
Coastal Nonpoint Pollution Control Program: Program Development and Approval Guidance, Working Group Working Paper; USEPA, April 1992.

Comments on Risk Assessments Risk Reduction Options for Cypermethrin: Docket No. OPP–2005–0293; California Stormwater Quality Association (CASQA) letter to USEPA, 2006.Environmental Hazard and General Labeling for Pyrethroid Non-Agricultural Outdoor Products, EPA-HQ-OPP-2008-0331-0021; USEPA, 2008.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practice, EPA 832-R-92005; USEPA, April 1992.

Stockpile Management WM-3



Treat Categories		
EC	Erosion Control	
SE	Sediment Control	☒
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	☒
WM	Waste Management and Materials Pollution Control	☑

Legend:
☑ **Primary Category**
☒ **Secondary Category**

Description and Purpose

Stockpile management procedures and practices are designed to reduce or eliminate air and stormwater pollution from stockpiles of soil, soil amendments, sand, paving materials such as Portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate sub base or pre-mixed aggregate, asphalt minder (so called "cold mix" asphalt), and pressure treated wood.

Suitable Applications

Implement in all projects that stockpile soil and other loose materials.

Limitations

- Plastic sheeting as a stockpile protection is temporary and hard to manage in windy conditions. Where plastic is used, consider use of plastic tarps with nylon reinforcement which may be more durable than standard sheeting.
- Plastic sheeting can increase runoff volume due to lack of infiltration and potentially cause perimeter control failure.
- Plastic sheeting breaks down faster in sunlight.
- The use of Plastic materials and photodegradable plastics should be avoided.

Implementation

Protection of stockpiles is a year-round requirement. To properly manage stockpiles:

Targeted Constituents	
Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

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- On larger sites, a minimum of 50 ft separation from concentrated flows of stormwater, drainage courses, and inlets is recommended.
- After 14 days of inactivity, a stockpile is non-active and requires further protection described below. All stockpiles are required to be protected as non-active stockpiles immediately if they are not scheduled to be used within 14 days.
- Protect all stockpiles from stormwater run-on using temporary perimeter sediment barriers such as compost berms (SE-13), temporary silt dikes (SE-12), fiber rolls (SE-5), silt fences (SE-1), sandbags (SE-8), gravel bags (SE-6), or biofilter bags (SE-14). Refer to the individual fact sheet for each of these controls for installation information.
- Implement wind erosion control practices as appropriate on all stockpiled material. For specific information, see WE-1, Wind Erosion Control.
- Manage stockpiles of contaminated soil in accordance with WM-7, Contaminated Soil Management.
- Place bagged materials on pallets and under cover.
- Ensure that stockpile coverings are installed securely to protect from wind and rain.
- Some plastic covers withstand weather and sunlight better than others. Select cover materials or methods based on anticipated duration of use.

Protection of Non-Active Stockpiles

A stockpile is considered non-active if it either is not used for 14 days or if it is scheduled not to be used for 14 days or more. Stockpiles need to be protected immediately if they are not scheduled to be used within 14 days. Non-active stockpiles of the identified materials should be protected as follows:

Soil stockpiles

- Soil stockpiles should be covered or protected with soil stabilization measures and a temporary perimeter sediment barrier at all times.
- Temporary vegetation should be considered for topsoil piles that will be stockpiled for extended periods.

Stockpiles of Portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, or aggregate sub base

- Stockpiles should be covered and protected with a temporary perimeter sediment barrier at all times.

Stockpiles of "cold mix"

- Cold mix stockpiles should be placed on and covered with plastic sheeting or comparable material at all times and surrounded by a berm.

Stockpiles of fly ash, stucco, hydrated lime

- Stockpiles of materials that may raise the pH of runoff (i.e., basic materials) should be covered with plastic and surrounded by a berm.

Stockpiles/Storage of treated wood

- Treated wood should be covered with plastic sheeting or comparable material at all times and surrounded by a berm.

Protection of Active Stockpiles

A stockpile is active when it is being used or is scheduled to be used within 14 days of the previous use. Active stockpiles of the identified materials should be protected as follows:

- All stockpiles should be covered and protected with a temporary linear sediment barrier prior to the onset of precipitation.
- Stockpiles of "cold mix" and treated wood, and basic materials should be placed on and covered with plastic sheeting or comparable material and surrounded by a berm prior to the onset of precipitation.
- The downstream perimeter of an active stockpile should be protected with a linear sediment barrier or berm and runoff should be diverted around or away from the stockpile on the upstream perimeter.

Costs

For cost information associated with stockpile protection refer to the individual erosion or sediment control BMP fact sheet considered for implementation (For example, refer to SE-1 Silt Fence for installation of silt fence around the perimeter of a stockpile.)

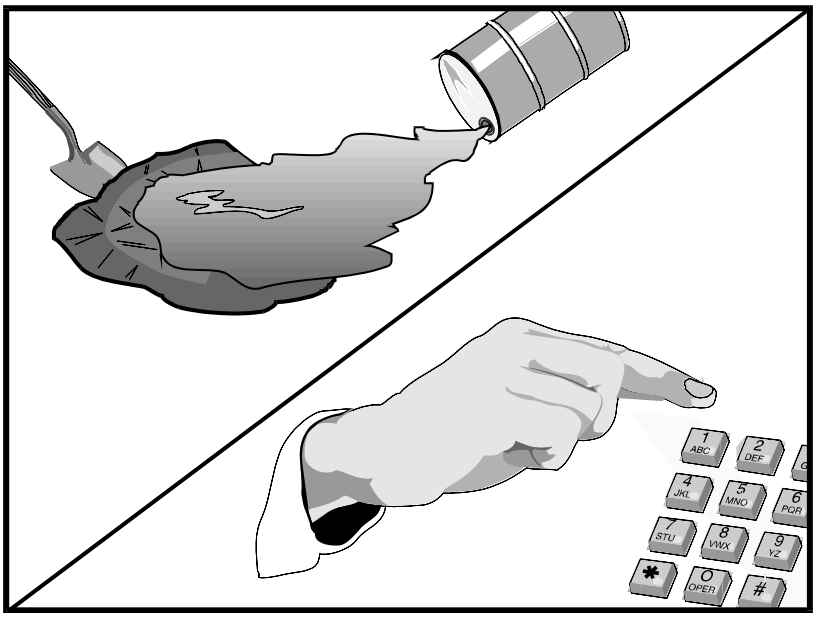
Inspection and Maintenance

- Stockpiles must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- It may be necessary to inspect stockpiles covered with plastic sheeting more frequently during certain conditions (for example, high winds or extreme heat).
- Repair and/or replace perimeter controls and covers as needed to keep them functioning properly.
- Sediment shall be removed when it reaches one-third of the barrier height.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Spill Prevention and Control WM-4



Description and Purpose

Prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.

This best management practice covers only spill prevention and control. However, WM-1, Materials Delivery and Storage, and WM-2, Material Use, also contain useful information, particularly on spill prevention. For information on wastes, see the waste management BMPs in this section.

Suitable Applications

This BMP is suitable for all construction projects. Spill control procedures are implemented anytime chemicals or hazardous substances are stored on the construction site, including the following materials:

- Soil stabilizers/binders
- Dust palliatives
- Herbicides
- Growth inhibitors
- Fertilizers
- Deicing/anti-icing chemicals

Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	☑

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

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- Fuels
- Lubricants
- Other petroleum distillates

Limitations

- In some cases, it may be necessary to use a private spill cleanup company.
- This BMP applies to spills caused by the contractor and subcontractors.
- Procedures and practices presented in this BMP are general. Contractor should identify appropriate practices for the specific materials used or stored onsite

Implementation

The following steps will help reduce the stormwater impacts of leaks and spills:

Education

- Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills.
- Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.
- Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- Establish a continuing education program to indoctrinate new employees.
- Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

General Measures

- To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- Store hazardous materials and wastes in covered containers and protect from vandalism.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Train employees in spill prevention and cleanup.
- Designate responsible individuals to oversee and enforce control measures.
- Spills should be covered and protected from stormwater runon during rainfall to the extent that it doesn't compromise clean up activities.
- Do not bury or wash spills with water.

- Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with WM-10, Liquid Waste Management.
- Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- Place proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- Keep waste storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

- Clean up leaks and spills immediately.
- Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to either a certified laundry (rags) or disposed of as hazardous waste.
- Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

Minor Spills

- Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- Use absorbent materials on small spills rather than hosing down or burying the spill.
- Absorbent materials should be promptly removed and disposed of properly.
- Follow the practice below for a minor spill:
  - Contain the spread of the spill.
  - Recover spilled materials.
  - Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

- Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

- Spills should be cleaned up immediately:
  - Contain spread of the spill.
  - Notify the project foreman immediately.
  - If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
  - If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
  - If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

- For significant or hazardous spills that cannot be controlled by personnel in the immediate vicinity, the following steps should be taken:
  - Notify the local emergency response by dialing 911. In addition to 911, the contractor will notify the proper county officials. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
  - Notify the Governor's Office of Emergency Services Warning Center, (916) 845-8911.
  - For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
  - Notification should first be made by telephone and followed up with a written report.
  - The services of a spill's contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
  - Other agencies which may need to be consulted include, but are not limited to, the Fire Department, the Public Works Department, the Coast Guard, the Highway Patrol, the City/County Police Department, Department of Toxic Substances, California Division of Oil and Gas, Cal/OSHA, etc.

Reporting

- Report significant spills to local agencies, such as the Fire Department; they can assist in cleanup.
- Federal regulations require that any significant oil spill into a water body or onto an adjoining shoreline be reported to the National Response Center (NRC) at 800-424-8802 (24 hours).

Use the following measures related to specific activities:

Vehicle and Equipment Maintenance

- If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runon of stormwater and the runoff of spills.
- Regularly inspect onsite vehicles and equipment for leaks and repair immediately
- Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- Place drip pans or absorbent materials under paving equipment when not in use.
- Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around
- Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- If fueling must occur onsite, use designate areas, located away from drainage courses, to prevent the runon of stormwater and the runoff of spills.
- Discourage "topping off" of fuel tanks.
- Always use secondary containment, such as a drain pan, when fueling to catch spills/ leaks.

Costs

Prevention of leaks and spills is inexpensive. Treatment and/ or disposal of contaminated soil or water can be quite expensive.

Inspection and Maintenance

- Inspect and verify that activity–based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.

- Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur.
- Keep ample supplies of spill control and cleanup materials onsite, near storage, unloading, and maintenance areas.
- Update your spill prevention and control plan and stock cleanup materials as changes occur in the types of chemicals onsite.

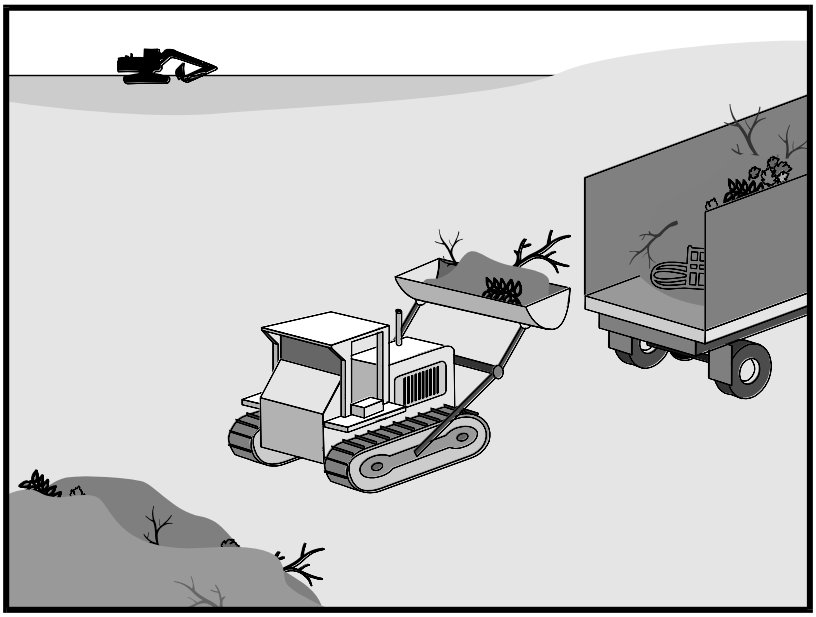
References

Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practice, EPA 832-R-92005; USEPA, April 1992.

Solid Waste Management WM-5



Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	☑

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

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Description and Purpose

Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.

Suitable Applications

This BMP is suitable for construction sites where the following wastes are generated or stored:

- Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures (rubble), and building construction
- Packaging materials including wood, paper, and plastic
- Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces, and masonry products
- Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes
- Construction wastes including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts, styrofoam and other materials used to transport and package construction materials

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- Highway planting wastes, including vegetative material, plant containers, and packaging materials

Limitations

Temporary stockpiling of certain construction wastes may not necessitate stringent drainage related controls during the non-rainy season or in desert areas with low rainfall.

Implementation

The following steps will help keep a clean site and reduce stormwater pollution:

- Select designated waste collection areas onsite.
- Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use. Inspect dumpsters for leaks and repair any dumpster that is not watertight.
- Locate containers in a covered area or in a secondary containment.
- Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.
- Cover waste containers at the end of each work day and when it is raining.
- Plan for additional containers and more frequent pickup during the demolition phase of construction.
- Collect site trash daily, especially during rainy and windy conditions.
- Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.
- Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor.
- Arrange for regular waste collection before containers overflow.
- Clean up immediately if a container does spill.
- Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas.

Education

- Have the contractor's superintendent or representative oversee and enforce proper solid waste management procedures and practices.
- Instruct employees and subcontractors on identification of solid waste and hazardous waste.
- Educate employees and subcontractors on solid waste storage and disposal procedures.

- Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings).
- Require that employees and subcontractors follow solid waste handling and storage procedures.
- Prohibit littering by employees, subcontractors, and visitors.
- Minimize production of solid waste materials wherever possible.

Collection, Storage, and Disposal

- Littering on the project site should be prohibited.
- To prevent clogging of the storm drainage system, litter and debris removal from drainage grates, trash racks, and ditch lines should be a priority.
- Trash receptacles should be provided in the contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods.
- Litter from work areas within the construction limits of the project site should be collected and placed in watertight dumpsters at least weekly, regardless of whether the litter was generated by the contractor, the public, or others. Collected litter and debris should not be placed in or next to drain inlets, stormwater drainage systems, or watercourses.
- Dumpsters of sufficient size and number should be provided to contain the solid waste generated by the project.
- Full dumpsters should be removed from the project site and the contents should be disposed of by the trash hauling contractor.
- Construction debris and waste should be removed from the site biweekly or more frequently as needed.
- Construction material visible to the public should be stored or stacked in an orderly manner.
- Stormwater runon should be prevented from contacting stored solid waste through the use of berms, dikes, or other temporary diversion structures or through the use of measures to elevate waste from site surfaces.
- Solid waste storage areas should be located at least 50 ft from drainage facilities and watercourses and should not be located in areas prone to flooding or ponding.
- Except during fair weather, construction and highway planting waste not stored in watertight dumpsters should be securely covered from wind and rain by covering the waste with tarps or plastic.
- Segregate potentially hazardous waste from non-hazardous construction site waste.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.

- For disposal of hazardous waste, see WM-6, Hazardous Waste Management. Have hazardous waste hauled to an appropriate disposal and/or recycling facility.
- Salvage or recycle useful vegetation debris, packaging and surplus building materials when practical. For example, trees and shrubs from land clearing can be used as a brush barrier, or converted into wood chips, then used as mulch on graded areas. Wood pallets, cardboard boxes, and construction scraps can also be recycled.

Costs

All of the above are low cost measures.

Inspection and Maintenance

- Inspect and verify that activity–based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur
- Inspect construction waste area regularly.
- Arrange for regular waste collection.

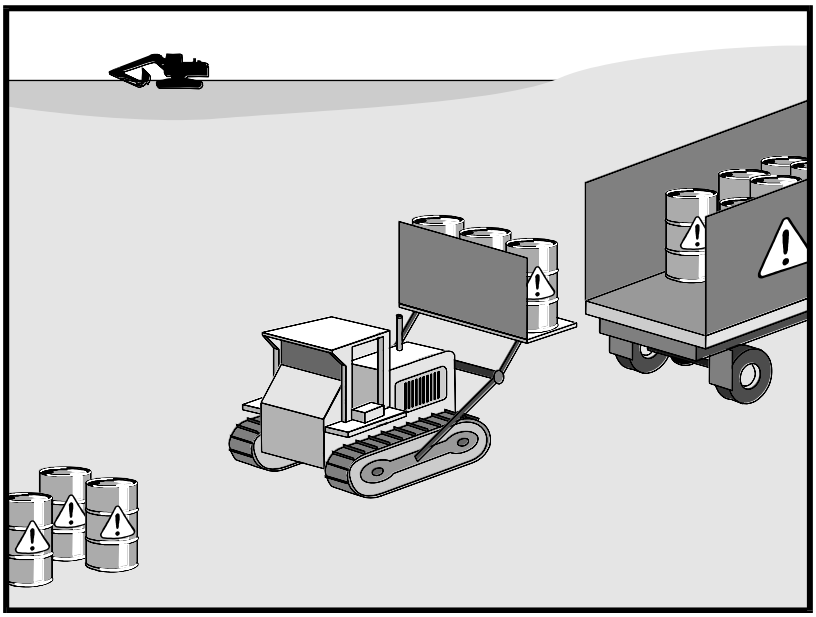
References

Processes, Procedures and Methods to Control Pollution Resulting from All Construction Activity, 430/9-73-007, USEPA, 1973.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practice, EPA 832-R-92005; USEPA, April 1992.

Hazardous Waste Management WM-6



Description and Purpose

Prevent or reduce the discharge of pollutants to stormwater from hazardous waste through proper material use, waste disposal, and training of employees and subcontractors.

Suitable Applications

This best management practice (BMP) applies to all construction projects. Hazardous waste management practices are implemented on construction projects that generate waste from the use of:

- Petroleum Products
- Asphalt Products
- Concrete Curing Compounds
- Pesticides
- Palliatives
- Acids
- Septic Wastes
- Paints
- Stains
- Solvents
- Wood Preservatives
- Roofing Tar
- Any materials deemed a hazardous waste in California, Title 22 Division 4.5, or listed in 40 CFR Parts 110, 117, 261, or 302

Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	☑

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	☑
Oil and Grease	☑
Organics	☑

Potential Alternatives

None

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In addition, sites with existing structures may contain wastes, which must be disposed of in accordance with federal, state, and local regulations. These wastes include:

- Sandblasting grit mixed with lead-, cadmium-, or chromium-based paints
- Asbestos
- PCBs (particularly in older transformers)

Limitations

- Hazardous waste that cannot be reused or recycled must be disposed of by a licensed hazardous waste hauler.
- Nothing in this BMP relieves the contractor from responsibility for compliance with federal, state, and local laws regarding storage, handling, transportation, and disposal of hazardous wastes.
- This BMP does not cover aerially deposited lead (ADL) soils. For ADL soils refer to WM-7, Contaminated Soil Management.

Implementation

The following steps will help reduce stormwater pollution from hazardous wastes:

Material Use

- Wastes should be stored in sealed containers constructed of a suitable material and should be labeled as required by Title 22 CCR, Division 4.5 and 49 CFR Parts 172, 173, 178, and 179.
- All hazardous waste should be stored, transported, and disposed as required in Title 22 CCR, Division 4.5 and 49 CFR 261-263.
- Waste containers should be stored in temporary containment facilities that should comply with the following requirements:
  - Temporary containment facility should provide for a spill containment volume equal to 1.5 times the volume of all containers able to contain precipitation from a 25-year storm event, plus the greater of 10% of the aggregate volume of all containers or 100% of the capacity of the largest tank within its boundary, whichever is greater.
  - Temporary containment facility should be impervious to the materials stored there for a minimum contact time of 72 hours.
  - Temporary containment facilities should be maintained free of accumulated rainwater and spills. In the event of spills or leaks, accumulated rainwater and spills should be placed into drums after each rainfall. These liquids should be handled as a hazardous waste unless testing determines them to be non-hazardous. Non-hazardous liquids should be sent to an approved disposal site.
  - Sufficient separation should be provided between stored containers to allow for spill cleanup and emergency response access.

  - Incompatible materials, such as chlorine and ammonia, should not be stored in the same temporary containment facility.

  - Throughout the rainy season, temporary containment facilities should be covered during non-working days, and prior to rain events. Covered facilities may include use of plastic tarps for small facilities or constructed roofs with overhangs.

- Drums should not be overfilled, and wastes should not be mixed.

- Unless watertight, containers of dry waste should be stored on pallets.

- Do not over-apply herbicides and pesticides. Prepare only the amount needed. Follow the recommended usage instructions. Over application is expensive and environmentally harmful. Apply surface dressings in several smaller applications, as opposed to one large application. Allow time for infiltration and avoid excess material being carried offsite by runoff. Do not apply these chemicals just before it rains. People applying pesticides must be certified in accordance with federal and state regulations.

- Paint brushes and equipment for water and oil-based paints should be cleaned within a contained area and should not be allowed to contaminate site soils, watercourses, or drainage systems. Waste paints, thinners, solvents, residues, and sludges that cannot be recycled or reused should be disposed of as hazardous waste. When thoroughly dry, latex paint and paint cans, used brushes, rags, absorbent materials, and drop cloths should be disposed of as solid waste.

- Do not clean out brushes or rinse paint containers into the dirt, street, gutter, storm drain, or stream. "Paint out" brushes as much as possible. Rinse water-based paints to the sanitary sewer. Filter and reuse thinners and solvents. Dispose of excess oil-based paints and sludge as hazardous waste.

- The following actions should be taken with respect to temporary contaminant:

  - Ensure that adequate hazardous waste storage volume is available.

  - Ensure that hazardous waste collection containers are conveniently located.

  - Designate hazardous waste storage areas onsite away from storm drains or watercourses and away from moving vehicles and equipment to prevent accidental spills.

  - Minimize production or generation of hazardous materials and hazardous waste on the job site.

  - Use containment berms in fueling and maintenance areas and where the potential for spills is high.

  - Segregate potentially hazardous waste from non-hazardous construction site debris.

  - Keep liquid or semi-liquid hazardous waste in appropriate containers (closed drums or similar) and under cover.

- Clearly label all hazardous waste containers with the waste being stored and the date of accumulation.
- Place hazardous waste containers in secondary containment.
- Do not allow potentially hazardous waste materials to accumulate on the ground.
- Do not mix wastes.
- Use all of the product before disposing of the container.
- Do not remove the original product label; it contains important safety and disposal information.

Waste Recycling Disposal

- Select designated hazardous waste collection areas onsite.
- Hazardous materials and wastes should be stored in covered containers and protected from vandalism.
- Place hazardous waste containers in secondary containment.
- Do not mix wastes, this can cause chemical reactions, making recycling impossible and complicating disposal.
- Recycle any useful materials such as used oil or water-based paint.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.
- Arrange for regular waste collection before containers overflow.
- Make sure that hazardous waste (e.g., excess oil-based paint and sludge) is collected, removed, and disposed of only at authorized disposal areas.

Disposal Procedures

- Waste should be disposed of by a licensed hazardous waste transporter at an authorized and licensed disposal facility or recycling facility utilizing properly completed Uniform Hazardous Waste Manifest forms.
- A Department of Health Services certified laboratory should sample waste to determine the appropriate disposal facility.
- Properly dispose of rainwater in secondary containment that may have mixed with hazardous waste.
- Attention is directed to "Hazardous Material", "Contaminated Material", and "Aerially Deposited Lead" of the contract documents regarding the handling and disposal of hazardous materials.

Education

- Educate employees and subcontractors on hazardous waste storage and disposal procedures.
- Educate employees and subcontractors on potential dangers to humans and the environment from hazardous wastes.
- Instruct employees and subcontractors on safety procedures for common construction site hazardous wastes.
- Instruct employees and subcontractors in identification of hazardous and solid waste.
- Hold regular meetings to discuss and reinforce hazardous waste management procedures (incorporate into regular safety meetings).
- The contractor's superintendent or representative should oversee and enforce proper hazardous waste management procedures and practices.
- Make sure that hazardous waste is collected, removed, and disposed of only at authorized disposal areas.
- Warning signs should be placed in areas recently treated with chemicals.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- If a container does spill, clean up immediately.

Costs

All of the above are low cost measures.

Inspection and Maintenance

- Inspect and verify that activity–based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur
- Hazardous waste should be regularly collected.
- A foreman or construction supervisor should monitor onsite hazardous waste storage and disposal procedures.
- Waste storage areas should be kept clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored.
- Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

- Hazardous spills should be cleaned up and reported in conformance with the applicable Material Safety Data Sheet (MSDS) and the instructions posted at the project site.
- The National Response Center, at (800) 424-8802, should be notified of spills of federal reportable quantities in conformance with the requirements in 40 CFR parts 110, 117, and 302. Also notify the Governors Office of Emergency Services Warning Center at (916) 845-8911.
- A copy of the hazardous waste manifests should be provided.

References

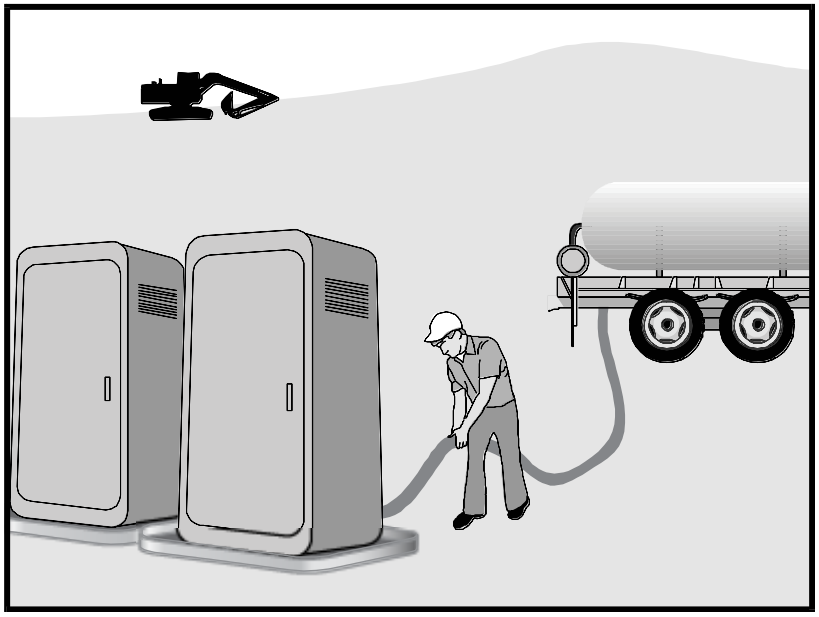
Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

Processes, Procedures and Methods to Control Pollution Resulting from All Construction Activity, 430/9-73-007, USEPA, 1973.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practice, EPA 832-R-92005; USEPA, April 1992.

Sanitary/Septic Waste Management WM-9



Description and Purpose

Proper sanitary and septic waste management prevent the discharge of pollutants to stormwater from sanitary and septic waste by providing convenient, well-maintained facilities, and arranging for regular service and disposal.

Suitable Applications

Sanitary septic waste management practices are suitable for use at all construction sites that use temporary or portable sanitary and septic waste systems.

Limitations

None identified.

Implementation

Sanitary or septic wastes should be treated or disposed of in accordance with state and local requirements. In many cases, one contract with a local facility supplier will be all that it takes to make sure sanitary wastes are properly disposed.

Storage and Disposal Procedures

- Temporary sanitary facilities should be located away from drainage facilities, watercourses, and from traffic circulation. If site conditions allow, place portable facilities a minimum of 50 feet from drainage conveyances and traffic areas. When subjected to high winds or risk of high winds, temporary sanitary facilities should be secured to prevent overturning.

Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	☑

Legend:

☑ **Primary Category**

☒ **Secondary Category**

Targeted Constituents

Sediment	
Nutrients	☑
Trash	☑
Metals	
Bacteria	☑
Oil and Grease	
Organics	☑

Potential Alternatives

None

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- Temporary sanitary facilities must be equipped with containment to prevent discharge of pollutants to the stormwater drainage system of the receiving water.
- Consider safety as well as environmental implications before placing temporary sanitary facilities.
- Wastewater should not be discharged or buried within the project site.
- Sanitary and septic systems that discharge directly into sanitary sewer systems, where permissible, should comply with the local health agency, city, county, and sewer district requirements.
- Only reputable, licensed sanitary and septic waste haulers should be used.
- Sanitary facilities should be located in a convenient location.
- Temporary septic systems should treat wastes to appropriate levels before discharging.
- If using an onsite disposal system (OSDS), such as a septic system, local health agency requirements must be followed.
- Temporary sanitary facilities that discharge to the sanitary sewer system should be properly connected to avoid illicit discharges.
- Sanitary and septic facilities should be maintained in good working order by a licensed service.
- Regular waste collection by a licensed hauler should be arranged before facilities overflow.
- If a spill does occur from a temporary sanitary facility, follow federal, state and local regulations for containment and clean-up.

Education

- Educate employees, subcontractors, and suppliers on sanitary and septic waste storage and disposal procedures.
- Educate employees, subcontractors, and suppliers of potential dangers to humans and the environment from sanitary and septic wastes.
- Instruct employees, subcontractors, and suppliers in identification of sanitary and septic waste.
- Hold regular meetings to discuss and reinforce the use of sanitary facilities (incorporate into regular safety meetings).
- Establish a continuing education program to indoctrinate new employees.

Costs

All of the above are low cost measures.

Inspection and Maintenance

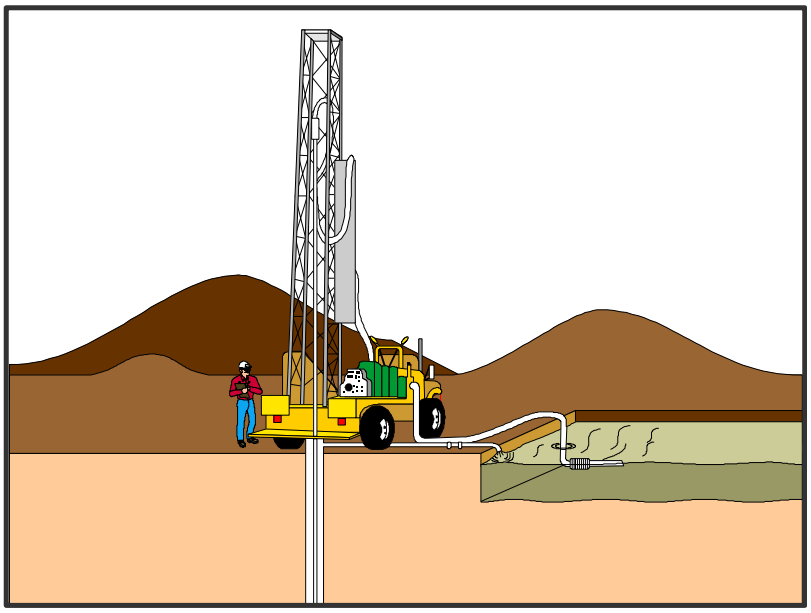
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Arrange for regular waste collection.
- If high winds are expected, portable sanitary facilities must be secured with spikes or weighed down to prevent over turning.
- If spills or leaks from sanitary or septic facilities occur that are not contained and discharge from the site, non-visible sampling of site discharge may be required. Refer to the General Permit or to your project specific Construction Site Monitoring Plan to determine if and where sampling is required.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practice, EPA 832-R-92005; USEPA, April 1992.

Liquid Waste Management WM-10



Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	☑

Legend:

☑ **Primary Objective**

☒ **Secondary Objective**

Targeted Constituents

Sediment	☑
Nutrients	☑
Trash	☑
Metals	☑
Bacteria	
Oil and Grease	☑
Organics	

Potential Alternatives

None

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Description and Purpose

Liquid waste management includes procedures and practices to prevent discharge of pollutants to the storm drain system or to watercourses as a result of the creation, collection, and disposal of non-hazardous liquid wastes.

Suitable Applications

Liquid waste management is applicable to construction projects that generate any of the following non-hazardous by-products, residuals, or wastes:

- Drilling slurries and drilling fluids
- Grease-free and oil-free wastewater and rinse water
- Dredgings
- Other non-stormwater liquid discharges not permitted by separate permits

Limitations

- Disposal of some liquid wastes may be subject to specific laws and regulations or to requirements of other permits secured for the construction project (e.g., NPDES permits, Army Corps permits, Coastal Commission permits, etc.).
- Liquid waste management does not apply to dewatering operations (NS-2 Dewatering Operations), solid waste management (WM-5, Solid Waste Management), hazardous wastes (WM-6, Hazardous Waste Management), or

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concrete slurry residue (WM-8, Concrete Waste Management).

- Typical permitted non-stormwater discharges can include: water line flushing; landscape irrigation; diverted stream flows; rising ground waters; uncontaminated pumped ground water; discharges from potable water sources; foundation drains; irrigation water; springs; water from crawl space pumps; footing drains; lawn watering; flows from riparian habitats and wetlands; and discharges or flows from emergency fire fighting activities.

Implementation

General Practices

- Instruct employees and subcontractors how to safely differentiate between non-hazardous liquid waste and potential or known hazardous liquid waste.
- Instruct employees, subcontractors, and suppliers that it is unacceptable for any liquid waste to enter any storm drainage device, waterway, or receiving water.
- Educate employees and subcontractors on liquid waste generating activities and liquid waste storage and disposal procedures.
- Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings).
- Verify which non-stormwater discharges are permitted by the statewide NPDES permit; different regions might have different requirements not outlined in this permit.
- Apply NS-8, Vehicle and Equipment Cleaning for managing wash water and rinse water from vehicle and equipment cleaning operations.

Containing Liquid Wastes

- Drilling residue and drilling fluids should not be allowed to enter storm drains and watercourses and should be disposed of.
- If an appropriate location is available, drilling residue and drilling fluids that are exempt under Title 23, CCR § 2511(g) may be dried by infiltration and evaporation in a containment facility constructed in conformance with the provisions concerning the Temporary Concrete Washout Facilities detailed in WM-8, Concrete Waste Management.
- Liquid wastes generated as part of an operational procedure, such as water-laden dredged material and drilling mud, should be contained and not allowed to flow into drainage channels or receiving waters prior to treatment.
- Liquid wastes should be contained in a controlled area such as a holding pit, sediment basin, roll-off bin, or portable tank.
- Containment devices must be structurally sound and leak free.
- Containment devices must be of sufficient quantity or volume to completely contain the liquid wastes generated.

- Precautions should be taken to avoid spills or accidental releases of contained liquid wastes. Apply the education measures and spill response procedures outlined in WM-4, Spill Prevention and Control.

- Containment areas or devices should not be located where accidental release of the contained liquid can threaten health or safety or discharge to water bodies, channels, or storm drains.

Capturing Liquid Wastes

- Capture all liquid wastes that have the potential to affect the storm drainage system (such as wash water and rinse water from cleaning walls or pavement), before they run off a surface.

- Do not allow liquid wastes to flow or discharge uncontrolled. Use temporary dikes or berms to intercept flows and direct them to a containment area or device for capture.

- Use a sediment trap (SE-3, Sediment Trap) for capturing and treating sediment laden liquid waste or capture in a containment device and allow sediment to settle.

Disposing of Liquid Wastes

- A typical method to handle liquid waste is to dewater the contained liquid waste, using procedures such as described in NS-2, Dewatering Operations, and SE-2, Sediment Basin, and dispose of resulting solids per WM-5, Solid Waste Management.

- Methods of disposal for some liquid wastes may be prescribed in Water Quality Reports, NPDES permits, Environmental Impact Reports, 401 or 404 permits, and local agency discharge permits, etc. Review the SWPPP to see if disposal methods are identified.

- Liquid wastes, such as from dredged material, may require testing and certification whether it is hazardous or not before a disposal method can be determined.

- For disposal of hazardous waste, see WM-6, Hazardous Waste Management.

- If necessary, further treat liquid wastes prior to disposal. Treatment may include, though is not limited to, sedimentation, filtration, and chemical neutralization.

Costs

Prevention costs for liquid waste management are minimal. Costs increase if cleanup or fines are involved.

Inspection and Maintenance

- Inspect and verify that activity–based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly during the rainy season and of two-week intervals in the non-rainy season to verify continued BMP implementation.

- Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur.

- Remove deposited solids in containment areas and capturing devices as needed and at the completion of the task. Dispose of any solids as described in WM-5, Solid Waste Management.
- Inspect containment areas and capturing devices and repair as needed.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Appendix H

Training Documentation

Trained Contractor Personnel Log

Storm Water Management Training Log and Documentation

Project Name: Fiddyment Substation Landscaping
WDID #:

Storm Water Management Topic: (check as appropriate)

- ☐ Erosion Control
- ☐ Sediment Control
- ☐ Wind Erosion Control
- ☐ Tracking Control
- ☐ Non-Storm Water Management
- ☐ Waste Management and Materials Pollution Control
- ☐ Storm Water Sampling

Specific Training Objective: _____

Location: _____ Date: _____

Instructor: _____ Telephone: _____

Course Length (hours): _____

Attendee Roster (Attach additional forms if necessary)

Name	Company	Phone

As needed, add proof of external training (e.g., course completion certificates, credentials for QSP, QSD).

CERTIFICATE OF TRAINING

CALIFORNIA CONSTRUCTION GENERAL PERMIT

QUALIFIED SWPPP DEVELOPER (QSD)
AND
QUALIFIED SWPPP PRACTITIONER (QSP)

Michael Clegg

Oct 01, 2020 - Oct 04, 2022

Certificate # 26094

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION®

California Stormwater Quality Association and
California Construction General Permit Training Team

CERTIFICATE OF TRAINING

CALIFORNIA CONSTRUCTION GENERAL PERMIT

QUALIFIED SWPPP PRACTITIONER (QSP)

Jacob Callahan

Jan 31, 2020 - Apr 08, 2022

Certificate # 26718

CASQA

California Stormwater Quality Association and
California Construction General Permit Training Team

Appendix I

Completed Forms

Place Newest On Top

TEXT OF AB 626

Assembly Bill No. 626

CHAPTER 810

An act to add and repeal Section 9204 of the Public Contract Code, relating to public contracts.

[Approved by Governor September 29, 2016. Filed with Secretary of State September 29, 2016.]

LEGISLATIVE COUNSEL'S DIGEST

AB 626, Chiu. Public contracts: claim resolution.

Existing law prescribes various requirements regarding the formation, content, and enforcement of state and local public contracts. Existing law applicable to state public contracts generally requires that the resolution of claims related to those contracts be subject to arbitration. Existing law applicable to local agency contracts prescribes a process for the resolution of claims related to those contracts of $375,000 or less.

This bill would establish, for contracts entered into on or after January 1, 2017, a claim resolution process applicable to any claim by a contractor in connection with a public works project. The bill would define a claim as a separate demand by the contractor for one or more of the following: a time extension for relief from damages or penalties for delay, payment of money or damages arising from work done pursuant to the contract for a public work, or payment of an amount disputed by the public entity, as specified.

This bill would require a public entity, defined to exclude certain state entities, upon receipt of a claim sent by registered or certified mail, to review it and, within 45 days, provide a written statement identifying the disputed and undisputed portions of the claim. The bill would authorize the 45-day period to be extended by mutual agreement. The bill would require any payment due on an undisputed portion of the claim to be processed within 60 days, as specified. The bill would require that the claim be deemed rejected in its entirety if the public entity fails to issue the written statement.

This bill would authorize, if the claimant disputes the public entity's written response or if the public entity fails to respond to a claim within the time prescribed, the claimant to demand to meet and confer for settlement of the issues in dispute. The bill would require any disputed portion of the claim that remains in dispute after the meet and confer conference to be subject to nonbinding mediation, as specified. The bill would provide that unpaid claim amounts accrue interest at 7% per annum. The bill would prescribe a procedure by which a subcontractor or lower tier contractor may make a claim through the contractor.

This bill would require the text of these provisions, or a summary, to be set forth in the plans or specifications for any public work which may give rise to a claim. The bill would specify that a waiver of these rights is void and contrary to public policy, except as specified. The bill would also specify that it does not impose liability on a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

By increasing the duties of local agencies and officials, this bill would impose a state-mandated local program.

This bill would, on January 1, 2020, repeal the provision establishing the claim resolution process.

This bill would specify that these provisions constitute a matter of statewide concern.

The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that, if the Commission on State Mandates determines that the bill contains costs mandated by the state, reimbursement for those costs shall be made pursuant to these statutory provisions.

The people of the State of California do enact as follows:

SECTION 1. Section 9204 is added to the Public Contract Code, to read:

9204. (a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

(c) For purposes of this section:

(1) ”Claim” means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.

(2) ”Contractor” means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.

(3) (A) ”Public entity” means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) ”Public entity” shall not include the following:

(i) The Department of Water Resources as to any project under the jurisdiction of that department.

(ii) The Department of Transportation as to any project under the jurisdiction of that department.

(iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.

(iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.

(v) The Military Department as to any project under the jurisdiction of that department.

(vi) The Department of General Services as to all other projects.

(vii) The High-Speed Rail Authority.

(4) ”Public works project” means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) ”Subcontractor” means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d) (1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2) (A) If the claimant disputes the public entity’s written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each

party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

(C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

(D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

(E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

(3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

(4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

(5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

(e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.

(f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.

(g) This section applies to contracts entered into on or after January 1, 2017.

(h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

(i) This section shall remain in effect only until January 1, 2020, and as of that date is

repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

SECTION 2.
The Legislature finds and declares that it is of statewide concern to require a charter city, charter county, or charter city and county to follow a prescribed claims resolution process to ensure there are uniform and equitable procurement practices.

SECTION 3.
If the Commission on State Mandates determines that this act contains costs mandated by the state, reimbursement to local agencies and school districts for those costs shall be made pursuant to Part 7 (commencing with Section 17500) of Division 4 of Title 2 of the Government Code.

COUNCIL COMMUNICATION

CC #: 1492
File #: 0800-03

Title:	Residential New Construction Energy Efficiency Program Development - Service Agreement Amendment
Contact:	Mark Riffey 916-746-1667 mriffey@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.4.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt a resolution authorizing the City Manager to execute Amendment No. 1 to the Service Agreement with TRC Solutions, Inc. for a one-year extension to the Residential New Construction Program.

BACKGROUND

On March 20, 2019, the City Council authorized the execution of a sole source service agreement with TRC Solutions, Inc. to assist Roseville Electric Utility with the design, processing, and promotion of its residential new construction energy efficiency programs, including an all-electric home program. The service agreement was established with a total cost of $900,000 and is set to expire on June 30, 2021.

Staff is recommending a one-year extension to the service agreement at no additional cost so that TRC Solutions Inc. can continue to support the utility's residential new construction energy efficiency programs, including the recently launched all-electric home pilot program. The amendment extends the term of the agreement through June 30, 2022 with no change to the cost of the agreement.

During the recommended one year extension period, staff will also complete a competitive bid process and select a vendor to continue to support the utility's future residential new construction programs.

FISCAL IMPACT

There is no fiscal impact.

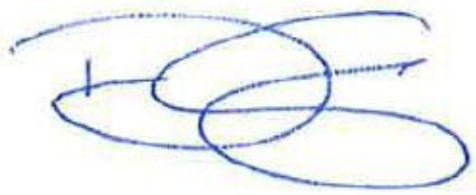
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) only applies to projects which have the potential to cause a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. (CEQA Guidelines §15061(b)(3)).

Respectfully Submitted,

Mark A. Riffey, Sr. Energy Services Account Representative

Michelle Bertolino, Electric Utility Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-237

Service Agreement Amendment

RESOLUTION NO. 21-237

APPROVING AMENDMENT NO. 1 TO SERVICE AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND TRC SOLUTIONS, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, Amendment No. 1 to Service Agreement (S1909056), regarding the residential new construction energy efficiency program, between the City of Roseville and TRC Solutions, Inc., has been reviewed by the Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said Amendment to Service Agreement is approved and the City Manager is authorized to execute it on behalf of the City of Roseville.

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

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

PURCHASING
CITY OF ROSEVILLE

2005 HILLTOP CIRCLE, ROSEVILLE, CA 95747
(916) 774-5720 • TDD (916) 774-5220 • FAX (916) 774-5736

SERVICE AGREEMENT AMENDMENT

SERVICE AGREEMENT No: S1909056
AMENDMENT No: 1

SERVICE LOCATION: AS DIRECTED

Contractor No.:

SUBMIT ALL INVOICES TO:
CITY OF ROSEVILLE
Finance Department
311 Vernon Street
Roseville, CA 95678

Contractor License No.:
Business License No.:

Department: ELECTRIC

Telephone No.: 916-962-7001 Fax:

Email address: ndunfee@trccompanies.com & mvega@trccompanies.com
Contractor: TRC SOLUTIONS, INC.
ATTN: NIC DUNFEE & MAYRA VEGA
10680 WHITE ROCK ROAD
RANCHO CORDOVA, CA 95670

Acct. Code:

Buyer: BECKY PHILIPP
Phone: 916-774-5724

Service Agreement Number S1909056 ("Agreement"), which was executed on, 3/20/19**,** is hereby modified as follows:

Select all provisions that apply:

☒ The term of the Agreement is increased by 12 months and the expiration date of the Agreement is changed from 6/30/21 to 6/30/22.

All other provisions of the Agreement shall remain unchanged and in full force and effect.

CONTRACTOR:

By: _____

Title: Treasuer and Chief Financial Officer

By: _____

Title: Chairman and Chief Executive Officer

CITY OF ROSEVILLE,
A MUNICIPAL CORPORATION:

By: _____
Dominick Casey
City Manager

Distribution: 1- Purchasing, 1 - Contractor, 1 - Originating Dept

COUNCIL COMMUNICATION

CC #: 1496
File #: 0203-20

Title:	Tower Theater Roof Replacement Project - Notice of Completion
Contact:	Tisha Chinn 916-774-5702 tchinn@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.5.

RECOMMENDATION TO COUNCIL

Recommend Council accept the Tower Theater Roof Replacement project as complete, and adopt a resolution authorizing the Public Works Director to execute the Notice of Completion on behalf of the City.

BACKGROUND

The roof of the Tower Theater, located at 417 Vernon Street, was in critical need of roof repairs to protect the building's structural and internal integrity. This roof replacement was scheduled as part of the Facility Division's 10-Year Rehabilitation Plan in order to protect and maintain our City facilities.

FISCAL IMPACT

The total cost of the project was $301,480. This project was paid for out of the approved FY2020-21 Rental Facilities - Renovation and Restoration project budget.

ENVIRONMENTAL REVIEW

The proposed project involves the repair of an existing facility. This activity is categorically exempt from CEQA as a Class 1 Exemption (State CEQA Guidelines Section 15301). The Exemption has been prepared and no further CEQA action is required.

CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

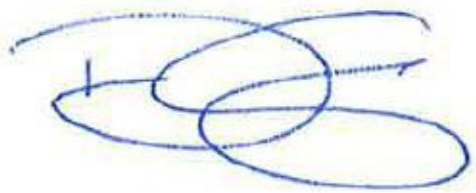
Goal A - Remain fiscally responsible in a changing world

Goal D - Enhance economic vitality

Respectfully Submitted,

Tisha Chinn, Administrative Technician

Jason Shykowski, Public Works Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-239

Tower Theater Roof Replacement - Notice of Completion

RESOLUTION NO. 21-239

ACCEPTING THE PUBLIC WORK KNOWN AS THE TOWER THEATER ROOF REPLACEMENT PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE PUBLIC WORKS DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE

BE IT RESOLVED by the City Council of the City of Roseville as follows:

1. The "Notice of Completion" on file in the City Clerk's Department relative to that public work known as the Tower Theater Roof Replacement Project, has been approved and the public work accepted.

2. The Public Works Director is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this_____day of _____, 20_____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

RECORDING REQUESTED BY AND WHEN
RECORDED MAIL TO:

CITY CLERK
CITY OF ROSEVILLE
311 VERNON STREET
ROSEVILLE, CA 95678

Exempt from recording fees
Pursuant to Gov't Code §27383

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work of improvement known as the _____ Project was completed and accepted by the City of Roseville on _____. The location is situated in the City of Roseville, County of Placer, State of California and is indicated on the attached map, marked as Exhibit "A" and incorporated herein by this reference. The real property herein described is owned by the City of Roseville, 311 Vernon Street, Roseville CA 95678.

The direct/general contractor on said project was _____.

The surety on said project was _____

_____.

_____

City of Roseville
Owner

ATTEST:

_____
Sonia Orozco, City Clerk

State of California)
County of Placer)

I,_____, being first duly sworn, depose and say: I am the _____ of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Notice of Completion and know its contents and the facts stated therein are true.

_____

City of Roseville

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Placer)

Subscribed and sworn to (or affirmed) before me on this _____ day of _____,

20___, _____

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

_____

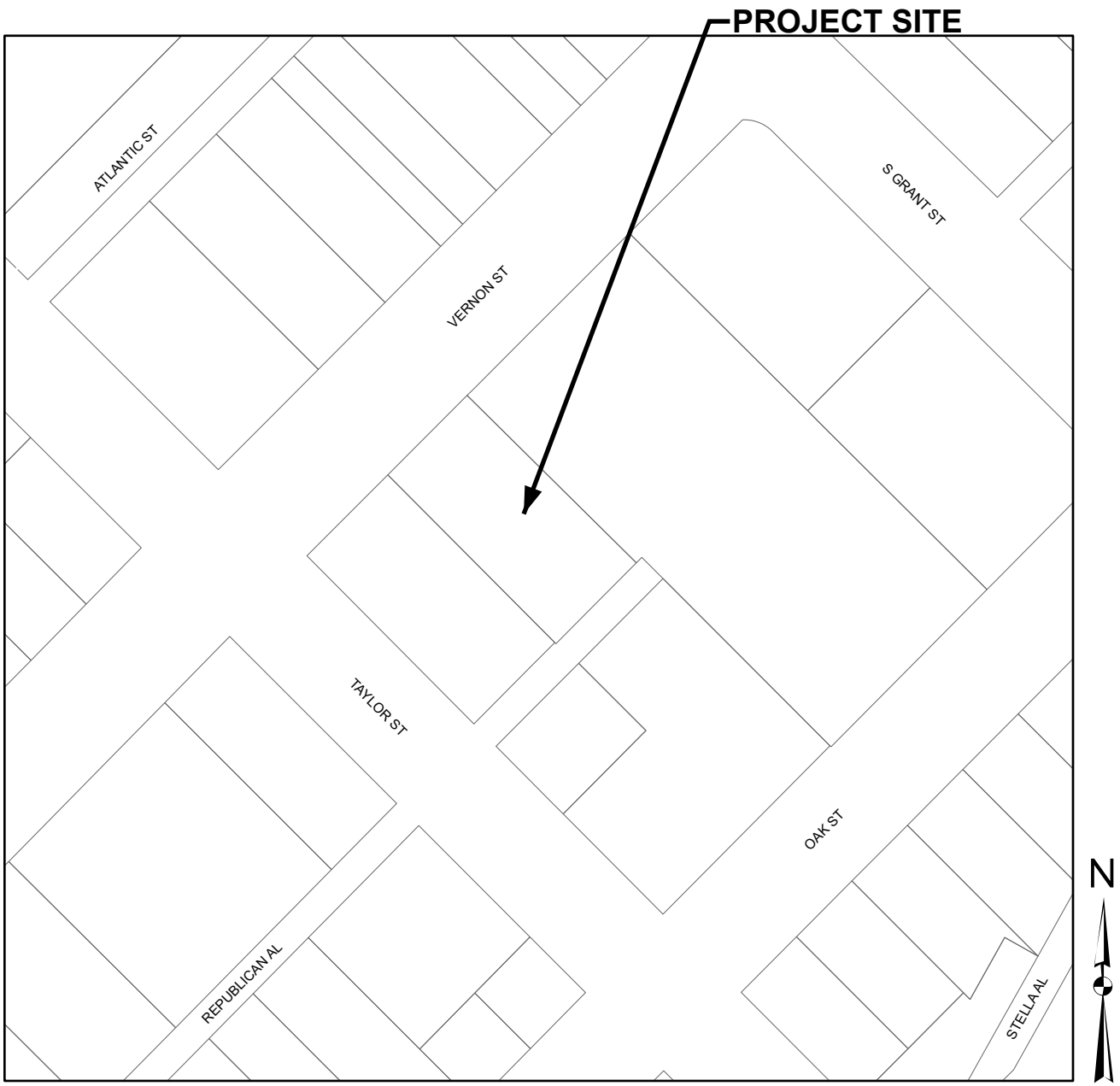
Place Notary Seal and/or Stamp Above

Signature of Notary Public

CITY OF ROSEVILLE CALIFORNIA

Exhibit A

417 Vernon Street, Roseville 95678



COUNCIL COMMUNICATION

CC #: 1508
File #: 0324

Title:	Professional Ambulance Billing - Services Agreements
Contact:	Brian Diemer 916-746-1392 bdiemer@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.6.

RECOMMENDATION TO COUNCIL

Staff recommends Council adopt a resolution to approve an Agreement for Professional Ambulance Billing Services for the new first responder fee program, as well as a Business Associate Agreement, with Wittman Enterprises, LLC and authorize the City Manager to execute the agreements on behalf of the City of Roseville, as well as any other documents necessary to effectuate the purpose of the agreements.

BACKGROUND

In October, 2020, City Council approved an Emergency Medical Services First Responder Fee Ordinance (RMC 9.27). The purpose of the ordinance was to allow for the collection of fees related to the cost of providing advanced life support services, basic life support services, or other medical services requiring immediate transportation to the hospital, to both city residents and nonresidents. Under the ordinance, the Fire Chief is charged with developing policies and procedures for invoicing, billing, and receiving payments for each fee charged and will coordinate the administration with any contracted third party service provider.

City staff looked at multiple billing service companies who provide similar services. Wittman Enterprises, LLC is a company that provides third party billing services for many agencies across California and is in a unique position to work with our third party transport provider to expedite the recovery of, and access to, billing information. City staff was able to leverage an existing contract between Wittman Enterprises, LLC and the Amador Fire Protection District from July 1, 2019 in order to “piggyback” the terms and pricing from that existing contract. Amador Fire Protection District entered into a contracted agreement with Wittman Enterprises, LLC after using a competitive process similar to Roseville. Roseville Fire Department is utilizing the "piggyback" process, as outlined in RMC 4.12.105, to award billing services to Wittman Enterprises, LLC. This has resulted in significant cost savings to the Roseville Fire Department. Implementation of the Emergency Medical Services First Responder Fee and its associated billing is scheduled to commence July 1, 2021.

FISCAL IMPACT

The total cost of the billing service is based on the number of persons billed. The cost of the third party billing company is estimated at $145,000. The cost will be offset by the anticipated revenue from the fee. The FY2021-22 proposed budget for the General Fund includes estimated revenue of $745,000 and the estimated billing company cost of $145,000.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) only applies to projects which have the potential to cause a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. (CEQA Guidelines §15061(b)(3)).

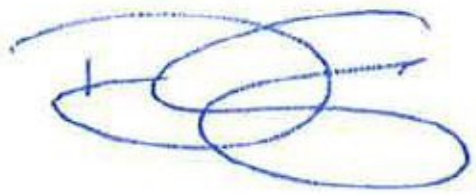
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world
Goal C - Maintain a safe and healthy community
Goal E - Deliver exceptional city services

Respectfully Submitted,

Brian Diemer, Assistant Fire Chief

Rick Bartee, Fire Chief



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-245

Wittman Enterprises Agreement

Ambulance Billing Services Agreement

RESOLUTION NO. 21-245

APPROVING AGREEMENTS, BY AND BETWEEN WITTMAN ENTERPRISES, LLC AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, an Agreement for Professional Ambulance Billing Services as well as a Business Associate Agreement, by and between Wittman Enterprises, LLC and the City of Roseville, have been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said Agreements are hereby approved and that the City Manager is authorized to execute them, as well as any other documents necessary to effectuate the purpose of the Agreements, on behalf of the City of Roseville.

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

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

Wittman Enterprises, LLC
Business Associate Agreement

Between Wittman Enterprises, LLC and the City of Roseville

This Business Associate Agreement ("Agreement") between the **City of Roseville** (Covered Entity and/or Department) and **Wittman Enterprises, LLC** (Business Associate) is executed to ensure that Wittman Enterprises, LLC will appropriately safeguard protected health information ("PHI") that is created, received, maintained, or transmitted on behalf of the City of Roseville in compliance with the applicable provisions of Public Law 104-191 of August 21, 1996, known as the Health Insurance Portability and Accountability Act of 1996, Subtitle F – Administrative Simplification, Sections 261, *et seq.*, as amended ("HIPAA"), and with Public Law 111-5 of February 17, 2009, known as the American Recovery and Reinvestment Act of 2009, Title XII, Subtitle D – Privacy, Sections 13400, *et seq.*, the Health Information Technology and Clinical Health Act, as amended (the "HITECH Act").

A. General Provisions

1. **Meaning of Terms.** The terms used in this Agreement shall have the same meaning as those terms defined in HIPAA.

2. **Regulatory References**. Any reference in this Agreement to a regulatory section means the section currently in effect or as amended.

3. **Interpretation**. Any ambiguity in this Agreement shall be interpreted to permit compliance with HIPAA.

B. Obligations of Business Associate

Wittman Enterprises, LLC agrees that it will:

1. Not use or further disclose PHI other than as permitted or required by this Agreement or as required by law;

2. Use appropriate safeguards and comply, where applicable, with the HIPAA Security Rule with respect to electronic protected health information ("e-PHI") and implement appropriate physical, technical and administrative safeguards to prevent use or disclosure of PHI other than as provided for by this Agreement;

3. Report to the Department any use or disclosure of PHI not provided for by this Agreement of which it becomes aware, including any security incident (as defined in the HIPAA Security Rule) and any breaches of unsecured PHI as required by 45 CFR §164.410. Breaches of unsecured PHI shall be reported to the City of Roseville

without unreasonable delay but in no case later than 60 days after discovery of the breach;

4. In accordance with 45 CFR 164.502(e)(1)(ii) and 164.308(b)(2), ensure that any subcontractors that create, receive, maintain, or transmit PHI on behalf of Wittman Enterprises, LLC agree to the same restrictions, conditions, and requirements that apply to Wittman Enterprises, LLC with respect to such information;

5. Make PHI in a designated record set available to the City of Roseville and to an individual who has a right of access in a manner that satisfies the Department's obligations to provide access to PHI in accordance with 45 CFR §164.524 within 30 days of a request;

6. Make any amendment(s) to PHI in a designated record set as directed by the City of Roseville, or take other measures necessary to satisfy the Department's obligations under 45 CFR §164.526;

7. Maintain and make available information required to provide an accounting of disclosures to the Department or an individual who has a right to an accounting within 60 days and as necessary to satisfy the City of Roseville's obligations under 45 CFR §164.528;

8. To the extent that Wittman Enterprises, LLC is to carry out any of the City of Roseville's obligations under the HIPAA Privacy Rule, Wittman Enterprises, LLC shall comply with the requirements of the Privacy Rule that apply to the Department when it carries out that obligation;

9. Make its internal practices, books, and records relating to the use and disclosure of PHI received from, or created or received by Wittman Enterprises, LLC on behalf of the City of Roseville, available to the Secretary of the Department of Health and Human Services for purposes of determining Wittman Enterprises, LLC and the Department's compliance with HIPAA and the HITECH Act;

10. Restrict the use or disclosure of PHI if the City of Roseville notifies Wittman Enterprises, LLC of any restriction on the use or disclosure of PHI that the Department has agreed to or is required to abide by under 45 CFR §164.522; and

11. If the Department is subject to the Red Flags Rule (found at 16 CFR §681.1 *et seq.*), Wittman Enterprises, LLC agrees to assist the City of Roseville in complying with its Red Flags Rule obligations by: (a) implementing policies and procedures to detect relevant Red Flags (as defined under 16 C.F.R. §681.2); (b) taking all steps necessary to comply with the policies and procedures of the Department's Identity Theft Prevention Program; (c) ensuring that any agent or third party who performs services on its behalf in connection with covered accounts of the Department agrees to implement reasonable policies and procedures designed to detect, prevent, and

mitigate the risk of identity theft; and (d) alerting the Department of any Red Flag incident (as defined by the Red Flag Rules) of which it becomes aware, the steps it has taken to mitigate any potential harm that may have occurred, and provide a report to the Department of any threat of identity theft as a result of the incident.

C. Permitted Uses and Disclosures by Business Associate

The specific uses and disclosures of PHI that may be made by Wittman Enterprises, LLC on behalf of the City of Roseville include:

1. The preparation of invoices to patients, carriers, insurers and others responsible for payment or reimbursement of the services provided by the City of Roseville to its patients;

2. Preparation of reminder notices and documents pertaining to collections of overdue accounts;

3. The submission of supporting documentation to carriers, insurers and other payers to substantiate the healthcare services provided by the Department to its patients or to appeal denials of payment for the same; and

4. Other uses or disclosures of PHI as permitted by HIPAA necessary to perform the services that Wittman Enterprises, LLC has been engaged to perform on behalf of the Department.

D. Termination

1. The City of Roseville may terminate this Agreement if the Department determines that Wittman Enterprises, LLC has violated a material term of the Agreement.

2. If either party knows of a pattern of activity or practice of the other party that constitutes a material breach or violation of the other party's obligations under this Agreement, that party shall take reasonable steps to cure the breach or end the violation, as applicable, and, if such steps are unsuccessful, terminate the Agreement if feasible.

3. Upon termination of this Agreement for any reason, Wittman Enterprises, LLC shall return to the Department or destroy all PHI received from the Department, or created, maintained, or received by Wittman Enterprises, LLC on behalf of the Department that Wittman Enterprises, LLC still maintains in any form. Wittman Enterprises, LLC shall retain no copies of the PHI. If return or destruction is infeasible, the protections of this Agreement will extend to such PHI.

AGREED TO THIS FIRST DAY OF JULY, 2021

WITTMAN ENTERPRISES, LLC	City of Roseville
By: Corinne Wittman-Wong, CEO	By: Dominick Casey, City Manager
Corinne Wittman 6/21/21 (Signature) (Date)	(Signature) (Date)

AGREEMENT FOR PROFESSIONAL AMBULANCE BILLING SERVICES BETWEEN THE CITY OF ROSEVILLE AND WITTMAN ENTERPRISES, LLC

This Agreement made and entered into this, 1st day of July 2021, by and between the **City of Roseville,** hereinafter referred to as "PROVIDER," and **Wittman Enterprises, LLC**, hereinafter referred to as "CONTRACTOR."

RECITALS

WHEREAS, PROVIDER desires to use the billing service offered by Wittman Enterprises, LLC an independent contractor, as its agent for the purpose of performing the services described in SECTION 2. SCOPE OF SERVICES.

WHEREAS, concurrently with entering into this Agreement that parties are also entering into the HIPAA Business Associate Agreement ("HIPAA Agreement"), attached hereto and incorporated by this reference as though fully set forth herein; and

WHEREAS, this Agreement is the "UNDERLYING Agreement" as defined by and reference in the HIPAA Agreement and is a piggyback on that certain agreement entered into between CONTRACTOR and the Amador Fire Protection District, dated July 1, 2019.

WITNESSETH: That the parties hereto have mutually covenanted and agreed, and by these presents do covenant and agree with each other as follows:

1. TERM: This Agreement shall commence on the date it is executed by CONTRACTOR and PROVIDER and it shall continue in full force and in effect until it is terminated by either party, giving ninety (90) days advance written notice to the other party.

2. SCOPE OF SERVICES: CONTRACTOR will perform services as set forth detailed in this section. PROVIDER understands, agrees to, and accepts that CONTRACTOR has no responsibility or obligation for determining the accuracy of any claims made to governmental agencies, and that CONTRACTOR relies on PROVIDER for making any such claims on documentation. All services provided pursuant to this Agreement shall also be subject to the terms and conditions of the HIPAA Agreement. To the extent there is any conflict between the provisions of this Agreement and the provisions of the HIPAA Agreement, the HIPAA Agreement will control, as set forth in Section 5.3 of the HIPAA Agreement.

2.1 Billing for First Response Calls

CONTRACTOR to prepare all insurance-request mailings. Correspondence to patients will be on 8 x 11 requests for insurance and will be placed in envelopes, sealed and mailed, postage prepaid. Initial mailing occurs within four (4) days of receipt of first responder tickets from PROVIDER or their transporting agencies. A toll-free 800-like telephone number will be provided to patients. An initial telephone call will also be made at this time

to elicit any insurance information from the patient or patient's family. If they receive no answer on this call, CONTRACTOR will proceed with additional insurance information requests and a phone call attempt with the patient. The standard schedule is as follows:

Private Insurance Schedule **(Option 1)**

1. Request for information	Immediately
2. Phone call to patient	15 days
3. Final request for information	30 days

Private Insurance Schedule **(Option 2)**

1. Request for information	Immediately
2. Phone call to patient	15 days
3. Request for information	30 days
4. Request for information	45 days
5. Final request for information	60 days

2.2 Receipts Processing

CONTRACTOR will accept payments in the form of cash, check, money order, cashier's check or credit card. All cash receipts will be deposited and posted within one (1) day of receipt of funds. All funds will be deposited into a PROVIDER-designated bank account. Bank deposit receipts will be sent electronically to PROVIDER. CONTRACTOR shall have no access to the proceeds of the receipts. All funds are under the exclusive control of PROVIDER.

All credit card fees incurred through payment processing will be the responsibility of the PROVIDER. A credit card processor/merchant account will be designated and set up by PROVIDER.

2.3 Refunds

CONTRACTOR will research and verify all overpayments. If a refund is required, CONTRACTOR will submit electronically all supporting documentation to PROVIDER upon completion of research. PROVIDER will issue payment directly to specified party and will send an electronic copy to CONTRACTOR, to be posted to the Patient's account within 24 hours.

2.4 Reports

Monthly, CONTRACTOR will perform accurate month end close procedures that will result, as a minimum, in the following reports:

- Monthly Ticket Survey
- Monthly Sales Journal
- Monthly Cash Receipts Journal
- Monthly Receivables Aging
- Management A/R Analysis
- Statistical Reports customized to client needs

Such reports will be available to PROVIDER on the 15th day of the month following the date of service, or ten (10) business days after the final submission of patient care records from the previous month

2.5 Source Documents
CONTRACTOR will retain in electronic format all source documents including attachments for seven (7) years from the date of the reported incident. When service contracted is terminated, all source documents are returned to PROVIDER in an electronic format at PROVIDER's expense.

2.6 Compassionate Billing Policy
CONTRACTOR agrees to adhere to PROVIDER's rules for discharging accountability, including the policy for compassionate billing.

3. COMPENSATION AND PAYMENT: CONTRACTOR will provide the billing services as stated for a fee as outlined in 3.1. CONTRACTOR will invoice Provider at the end of each month. Invoices are payable upon receipt and shall be deemed late if not received by CONTRACTOR within thirty (30) calendar days of the invoice date.

3.1 Fees

A.	Option 1 (from Section 2.1)	$12.50 per processed incident
	OR	
B.	Option 2 (from section 2.1)	$14.00 per processed incident

4. FINANCE CHARGE: Contractor invoices unpaid by more than forty-five (45) days are subject to a monthly interest charge of 1 1/2% unless in dispute.

5. AGENCY RELATIONSHIP: CONTRACTOR is an independent billing service contractor and PROVIDER specifically designates CONTRACTOR as its agent for the purpose of performing the services described in Section 11 of this Agreement. CONTRACTOR and PROVIDER agree that the intermediaries for Medicare and Medicaid may accept claims prepared and submitted by CONTRACTOR on behalf of PROVIDER only so long as this Agreement remains in effect.

5.1 Liaison: PROVIDER shall assign a liaison for conference and communication of any matters subject to the services provided by the contract.

5.2 Coordination of Services: The CONTRACTOR and PROVIDER mutually agree that person(s) who have knowledge of this agreement and the legal capacity to comply with this agreement shall be available for conference at all regular business hours (PST). Each party agrees that during a time that this agreement is in effect, the responsible contact person(s) will be available at all regular business hours (PST) for communication or other matters of this agreement. The current contact information as of the signing of this agreement is:

Primary Contact for CONTRACTOR
Stephanie Cooper-Noe, Client Liaison
11093 Sun Center Drive
Rancho Cordova, CA 95670
916-669-4607
Email scooper-noe@webillems.com

Primary Contact for PROVIDER
Brian Diemer, Assistant Fire Chief
316 Vernon Street, Suite 480
Roseville, CA 95678
916-746-1392
Email bdiemer@roseville.ca.us

5.3 Training: CONTRACTOR will provide annual revenue enhancement training for EMS and financial staff. This includes four (4) hours of teleconference, webinar or Skype-facilitated training for PROVIDER general staff and six (6) hours for EMS management. Additional training as requested by PROVIDER at a contract rate of $85.00 per instructional hour. Additional onsite training as requested by PROVIDER at a contract rate of $100.00 per hour plus travel expenses.

6. PERFORMANCE MONITORING: CONTRACTOR agrees to allow PROVIDER, or any agent or Consultant as they deem so qualified, to monitor audit, review, examine, or study the methods, procedures and results of the billing and collection methods used.

7. COMPLYING WITH THE LAW: CONTRACTOR shall adhere to all applicable local, state and federal laws and regulations in effect during the term of this Agreement.

8. INSURANCE: CONTRACTOR will maintain in force throughout the term of this Agreement the following insurance:

A)	General Liability Insurance,	3,000,000 aggregate,
B)	Professional Liability Insurance,	1,000,000
C)	Workers Compensation Insurance,	1,000,000.

9. INDEMNIFICATION AND HOLD HARMLESS: CONTRACTOR hereby agrees to indemnify, defend, and save harmless PROVIDER, its officers and employees from all liability, including any claim of liability and any losses or costs (including reasonable attorneys' fees) arising out of the negligent or intentional act, recklessness or gross negligence of CONTRACTOR its officers, or employees.

PROVIDER agrees to defend, indemnify and hold CONTRACTOR and its officers, and employees harmless from and against any and all claim, actions, damages, expenses (including reasonable attorney's fees), losses or liabilities incurred by or asserted against CONTRACTOR its officer or employees as a result of this Agreement; provided, however, that such duty to defend, indemnify and hold harmless shall not apply to any claim or liability to the extent caused by the negligent or intentional act, recklessness or gross negligence of CONTRACTOR its officers, or employees.

10. CONTRACTOR LIMITED LIABILITY: CONTRACTOR shall use due care in processing the claims of the PROVIDER, but CONTRACTOR will be responsible only to the extent of

correcting any errors which occur within CONTRACTOR's reasonable control; such errors will be corrected at no additional charge to PROVIDER. This liability of CONTRACTOR with respect to this Paragraph shall in any event be limited to the total compensation for the services provided under this Agreement and shall not include any contingent liability, regardless of the form of action.

11. CONTRACTOR SERVICES AND RESPONSIBILITIES: CONTRACTOR shall perform the following services for PROVIDER.

a) screen, prepare, and submit claims to any and all payors including but not necessarily limited to insurance carriers, and any other source of pay for first responder incidents.
b) track and trace all claims submitted,
c) resubmit or otherwise resolve denied or disallowed claims,
d) retain all source documents for 72 months,
e) provide adequate precautions to protect confidentiality of patient records in accordance with applicable state and federal law.
f) timely submit claims, predicated upon normal working conditions and subject to adjustment at any time in the event of any cause or causes beyond the control of CONTRACTOR
g) conduct all contact and correspondence with beneficiaries or responsible parties.

12. PROVIDER RESPONSIBILITIES: Provider shall have the following responsibilities to CONTRACTOR

a) Provide CONTRACTOR with the proper documentation necessary to prepare claims and reach final adjudication,
b) Provide CONTRACTOR with any correspondence from the fiscal intermediaries, insurance, attorneys, patients in order for CONTRACTOR to perform proper follow up of outstanding billings and proper posting and tracking of accounts receivable.

13. DISPUTES: Any controversy or claim arising out of or relating to this Agreement, or the breach thereof, shall be settled by arbitration administered by the American Arbitration Association in accordance with its Commercial Arbitration rules and judgment upon the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. Civil Code of Procedure 1283.05 is incorporated into the discovery provisions of CCP §1283 in all issues arising out of or relating to this Agreement, or the breach thereof.

14. EXCUSE OF NON-PERFORMANCE: Neither party shall be liable for damages to the other party for failure of performance under the terms of this Agreement in the event that party's performance is prevented or made unreasonably difficult or costly by any labor dispute beyond control of the party, war, governmental action, looting, vandalism, earthquake, fire, flood, or any other natural occurrence.

15. DISENGAGEMENT AGREEMENT: Upon termination of the contract, CONTRACTOR will continue to perform billing services to the date agreed upon as the termination date. CONTRACTOR will return to PROVIDER all previously retained source documents, along with a full accounting of outstanding accounts receivable in an electronic format at the PROVIDER's expense.

16. NOTICE: Any notice given hereunder shall be deemed served immediately if hand-delivered in writing to an officer or other duly appointed representative of the Party to whom the notice is directed, or if transmitted by electronic format to the email address contained in this Agreement or listed below. Notices shall also be deemed served five business days after transmittal by registered, certified, express, or regular mail or by Federal Express to the business address identified in this Agreement.

CONTRACTOR:
Corinne Wittman-Wong, CEO
11093 Sun Center Drive
Rancho Cordova, CA 95670
Email cwittmanwong@webillems.com

PROVIDER:
Brian Diemer, Assistant Fire Chief
316 Vernon Street, Suite 480
Roseville, CA 95678
916-746-1392
Email bdiemer@roseville.ca.us

17. ENTIRETY: Any of the terms or conditions of this Agreement may be waived at any time by the party entitled to the benefit thereof, but no such waiver shall affect or impair the rights of the waiving party to require observance, performance or satisfaction either of that term or condition as its applies on the subsequent occasion or of any other term or condition hereof.

Nothing in this Agreement, whether express or implied is intended to confer any rights or remedies under or by reason of this Agreement on any persons other than the parties to it and their respective successors and assigns, nor is anything in this Agreement intended to relieve or discharge the obligation or liability of any third persons to any party to this Agreement nor shall any provision give any third persons any rights of subrogation or action over against any party to this Agreement

This Agreement sets forth the entire understanding of the parties with respect to the subject matter herein. There are no other understandings, terms or other Agreements expressed or implied, oral or written, except as set forth herein.

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first herein above written.

WITTMAN ENTERPRISES, LLC

By:
Corinne Wittman-Wong, CEO

Corinne Wittman 4/21/21
(Signature) (Date)

CITY OF ROSEVILLE

By:
Dominick Casey, City Manager

(Signature) (Date)

COUNCIL COMMUNICATION

CC #: 1506
File #: 0800-04

Title:	Environmental Compliance Support Services - On-Call Professional Services Agreement Amendments
Contact:	Cathy Gosalvez 916-746-1300 cgosalvez@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.7.

RECOMMENDATION TO COUNCIL

Staff recommends the City Council adopt resolutions to approve the First Amendments to the On-Call Professional Services Agreements with ICF Jones & Stokes, Inc. and ECORP Consulting, Inc. for environmental compliance support services for design and construction, and authorize the City Manager to execute them. Staff additionally requests approval for the City Manager to execute one (1) additional one (1) year renewal without further council approval, contingent on approval of the budget each year.

BACKGROUND

The Public Works Engineering Division is responsible for the design and construction of various City infrastructure improvements such as roads, bridges, drainage facilities, traffic signals, and municipal buildings. For these projects to be successful and cost efficient, and to comply with State and Federal environmental regulations, City staff requires the assistance of professionals in the environmental field. The most cost effective and time efficient method of obtaining these additional resources is through multiple on-call Professional Services Agreements.

After a competitive Request for Proposals process, at their June 6, 2018 meeting, City Council approved two resolutions to enter into Professional Services Agreements with ICF Jones and Stokes and ECORP Consulting, Inc. for on-call environmental compliance support services for a term of three years, with the option of two additional one-year extensions, and a not-to-exceed fee for each Agreement of $450,000 over the first three-year term.

These recommended first amendments increase the contract compensation not-to-exceed fees for each amendment by $150,000. The contracts have also been extended by one year to June 30, 2022 to align with the end of FY2021-22. The Agreements have been and will continue to be funded by various Capital Improvement Program project budgets.

FISCAL IMPACT

The not-to-exceed cost for the services provided by the combination of the two agreements over the next year is $300,000. There is no guaranteed minimum amount of work provided in the contracts, and payment will only be made for work completed. The agreements will be funded by various Council approved CIP project budgets at no cost to General Fund.

ENVIRONMENTAL REVIEW

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

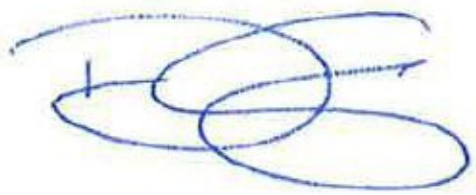
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Cathy Gosalvez, Assistant Engineer

Jason Shykowski, Public Works Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-243

ICF Agreement

Resolution 21-244

ECORP Agreement

RESOLUTION NO. 21-243

APPROVING A FIRST AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ICF JONES & STOKES, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a first amendment to on-call professional services agreement for Environmental Compliance Support Services for Design and Construction, by and between the City of Roseville and ICF Jones & Stokes, Inc., has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute one (1) additional one (1) year renewal without further City Council approval, provided that the applicable budget is approved by the City Council each year, or until City staff determines that continuing with the same vendor is not in the City's best interest.

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

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

FIRST AMENDMENT TO

ON-CALL PROFESSIONAL SERVICES AGREEMENT

Environmental Compliance Support Services for Design and Construction

THIS FIRST AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT is made and entered into this ___ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and ICF Jones & Stokes, Inc., a Delaware corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into an On-Call Professional Services Agreement dated June 6, 2018 ("Agreement") in response to Request for Proposal #15-58 for on-call environmental compliance support services for design and construction ("Project");

WHEREAS, CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period and CONSULTANT is willing and able to provide such services.

NOW, THEREFORE, the parties agree as follows:

1. Section 1 of the Agreement is amended by adding an additional paragraph to read as follows:

"CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period commencing June 7, 2021 and ending on June 30, 2022".

2. Section 3 of the Agreement is amended by adding an additional paragraph to read as follows:

"CITY shall pay one hundred fifty thousand dollars ($150,000), in consideration of the additional services to be provided during the term of the First Amendment to Agreement."

3. Section 4 of the Agreement is amended by adding an additional paragraph to read as follows:

"CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY."

4. Section 14 of the Agreement is amended by adding an additional paragraph to read as follows:

"CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the

public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and location of work in accomplishing CITY's on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement."

5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

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

CITY OF ROSEVILLE, a
municipal corporation

BY: _____
DOMINICK CASEY
City Manager

ICF JONES & STOKES, INC., a
Delaware corporation

BY: _____
Robert F. Toth
its: Sr. Vice President, Contracts

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

ATTEST:

BY: _____
SONIA OROZCO
City Clerk

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____
JASON SHYKOWSKI
Public Works Director

and

BY: Rosemarie Jones
Rosemarie Jones
its: Assistant Secretary

RESOLUTION NO. 21-244

APPROVING A FIRST AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND ECORP CONSULTING, INC., AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a first amendment to on-call professional services agreement for Environmental Compliance Support Services for Design and Construction, by and between the City of Roseville and ECORP Consulting, Inc., has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said first amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to execute one (1) additional one (1) year renewal without further City Council approval, provided that the applicable budget is approved by the City Council each year, or until City staff determines that continuing with the same vendor is not in the City's best interest.

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

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

FIRST AMENDMENT TO

ON-CALL PROFESSIONAL SERVICES AGREEMENT

Environmental Compliance Support Services for Design and Construction

THIS FIRST AMENDMENT TO ON-CALL PROFESSIONAL SERVICES AGREEMENT is made and entered into this ___ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and ECORP Consulting, Inc., a California corporation ("CONSULTANT"); and

W I T N E S S E T H:

WHEREAS, CITY and CONSULTANT previously entered into an On-Call Professional Services Agreement dated June 6, 2018 ("Agreement") in response to Request for Proposal #15-58 for on-call environmental compliance support services for design and construction ("Project");

WHEREAS, CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period and CONSULTANT is willing and able to provide such services.

NOW, THEREFORE, the parties agree as follows:

1. Section 1 of the Agreement is amended by adding an additional paragraph to read as follows:

"CITY is exercising its option to extend the term of the Agreement for an additional one (1) year period commencing June 7, 2021 and ending on June 30, 2022".

2. Section 3 of the Agreement is amended by adding an additional paragraph to read as follows:

"CITY shall pay one hundred fifty thousand dollars ($150,000), in consideration of the additional services to be provided during the term of the First Amendment to Agreement."

3. Section 4 of the Agreement is amended by adding an additional paragraph to read as follows:

"CONSULTANT agrees to defend and indemnify CITY if, despite the parties intent and practice, any venue, agency, or court with competent jurisdiction determines that CONSULTANT and/or any of its agents, officers, employees, volunteers, independent contractors, or subcontractors, are characterized as employee(s) of CITY."

4. Section 14 of the Agreement is amended by adding an additional paragraph to read as follows:

"CONSULTANT and CITY agree that: (a) CONSULTANT is free from the control and direction of CITY in connection with the performance of the work; (b) CONSULTANT is providing services directly to CITY; (c) CONSULTANT has and will maintain at all relevant times a business license; (d) CONSULTANT maintains a business location that is separate from CITY; (e) CONSULTANT is customarily engaged in an independently established business of the same nature as that involved in the work performed hereunder; (f) CONSULTANT actually contracts with other businesses to provide the same or similar services and maintains a clientele without restrictions from CITY; (g) CONSULTANT advertises and holds itself out to the

public as available to provide the same or similar services; (h) CONSULTANT provides its own tools, vehicles, and equipment to perform the services; (i) CONSULTANT has negotiated its own rates; (j) CONSULTANT set its own hours and location of work in accomplishing CITY's on-call needs; and (k) CONSULTANT has the right to control the manner and means of accomplishing the result desired and exercises its own expert independent judgement."

5. All other provisions of the Agreement shall remain unchanged and in full force and effect.

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

CITY OF ROSEVILLE, a municipal corporation

BY: _____
DOMINICK CASEY
City Manager

ECORP CONSULTING, INC., a California corporation

BY: BJORN GREGERSEN

its: PRESIDENT

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

ATTEST:

and Hal Freeman

BY: HAL FREEMAN

its: VICE PRESIDENT/CFO

BY: _____
SONIA OROZCO
City Clerk

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: _____
JASON SHYKOWSKI
Public Works Director

COUNCIL COMMUNICATION

CC #: 1494
File #: 0900-02

Title:	2018 Sewer Collection System Cured-In-Place Pipe Rehabilitation Project - Notice of Completion
Contact:	Jonathan Cummings 916-774-5566 jcummings@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.8.

RECOMMENDATION TO COUNCIL

Staff recommends City Council accept the 2018 Sewer Collection System CIPP Rehabilitation Project as complete and authorize the Director of Environmental Utilities to execute the Notice of Completion.

BACKGROUND

On August 5, 2020, City Council awarded an Agreement to Express Sewer and Drain, Inc. for the 2018 Sewer Collection System CIPP Rehabilitation Project. The locations of the project are shown in the Notice of Completion. The City's Environmental Utilities Department has completed final inspections and found the project work to be complete. The project is now ready for acceptance. No stop payment notices or preliminary notices have been filed with the City Clerk for the project.

FISCAL IMPACT

An agreement for $654,672 was awarded to Express Sewer and Drain, Inc. for the 2018 Sewer Collection System CIPP Rehabilitation Project. The total cost to complete the project was $542,772. The project was funded by the Wastewater Rehabilitation Fund.

ENVIRONMENTAL REVIEW

The proposed project involved the repair of an existing facility. This activity is categorically exempt from CEQA as a Class 1 Exemption (State CEQA Guidelines Section 15301). The Exemption was prepared prior to the start of construction and no further CEQA action is required.

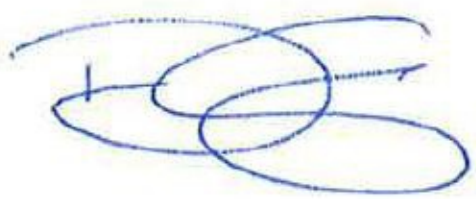
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Jonathan Cummings, Associate Engineer

Richard Plecker, Environmental Utilities Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-238

Attachment A - Notice of Completion

RESOLUTION NO. 21-238

ACCEPTING THE PUBLIC WORK KNOWN AS THE 2018 SEWER COLLECTION SYSTEM CURE-IN-PLACE PIPE REHABILITATION PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE

BE IT RESOLVED by the City Council of the City of Roseville as follows:

1. The "Notice of Completion" on file in the City Clerk's Department relative to that public work known as the 2018 Sewer Collection System Cure-In-Place Pipe Rehabilitation Project, has been approved and the public work accepted.

2. The Environmental Utilities Director is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this_____day of _____, 20_____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

RECORDING REQUESTED BY AND WHEN
RECORDED MAIL TO:

CITY CLERK
CITY OF ROSEVILLE
311 VERNON STREET
ROSEVILLE, CA 95678

Exempt from recording fees
Pursuant to Gov't Code §27383

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work of improvement known as the 2018 Sewer Collection System Cured-In-Place Pipe Rehabilitation Project was completed and accepted by the City of Roseville on June 2, 2021. The location is situated in the City of Roseville, County of Placer, State of California and is indicated on the attached map, marked as Exhibit "A" and incorporated herein by this reference. The real property herein described is owned by the City of Roseville, 311 Vernon Street, Roseville CA 95678.

The direct/general contractor on said project was Express Sewer and Drain, Inc..

The surety on said project was Merchants Bonding Company (Mutual)

_____.

_____
RICHARD D. PLECKER
Environmental Utilities Director
City of Roseville
Owner

ATTEST:

_____
Sonia Orozco, City Clerk

State of California)
County of Placer)

I, RICHARD D. PLECKER, being first duly sworn, depose and say: I am the Environmental Utilities Director of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Notice of Completion and know its contents and the facts stated therein are true.

_____

RICHARD D. PLECKER

Environmental Utilities Director
City of Roseville

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Placer)

Subscribed and sworn to (or affirmed) before me on this _____ day of _____,

20___, RICHARD D. PLECKER

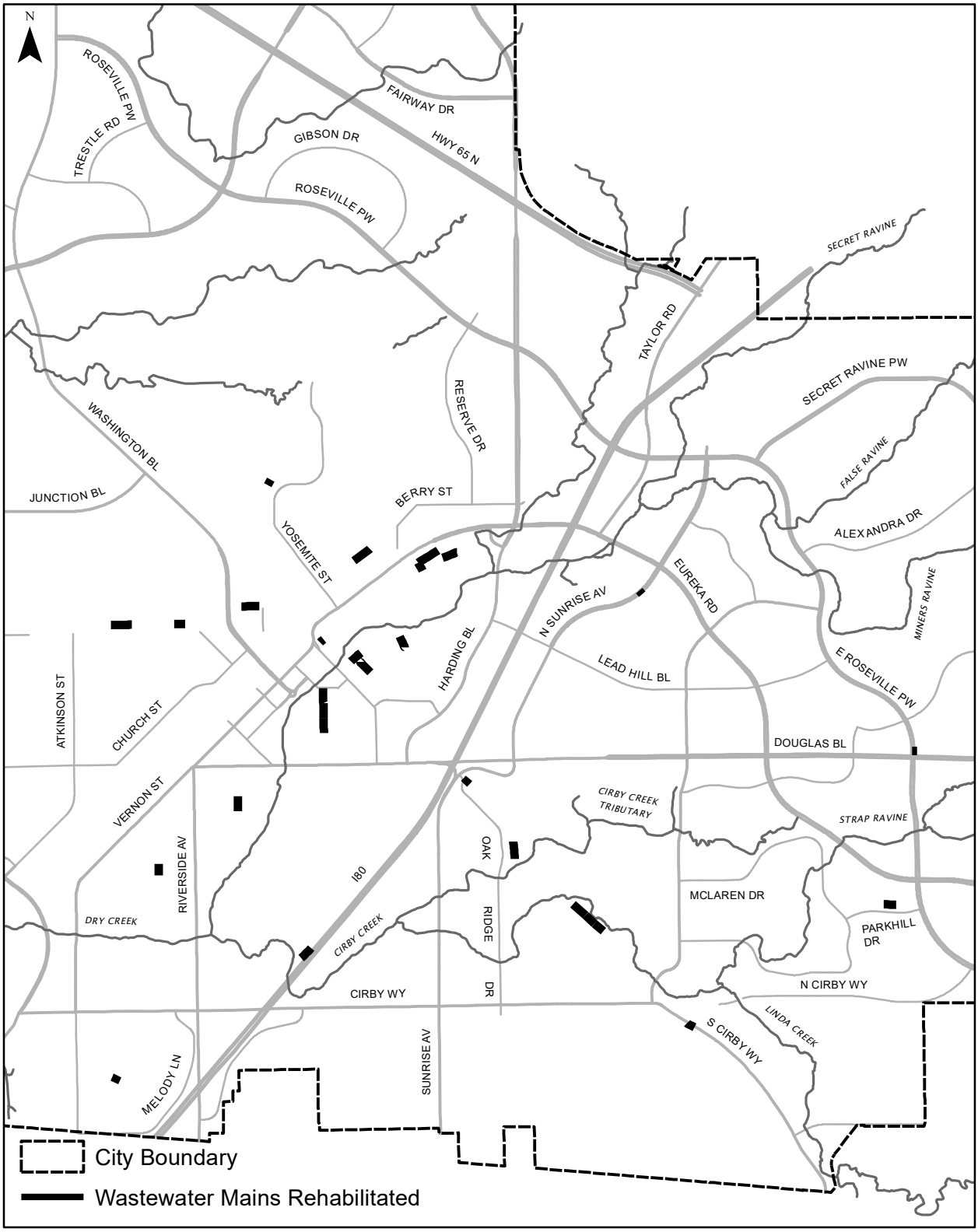
proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

_____

Place Notary Seal and/or Stamp Above

Signature of Notary Public

Exhibit "A"
2018 SEWER COLLECTION SYSTEM
CURED-IN-PLACE PIPE REHABILITATION PROJECT



COUNCIL COMMUNICATION

CC #: 1503
File #: 0900-02

Title:	Aquifer Storage and Recovery – Monitoring Wells Project - Notice of Completion
Contact:	Jason Marks 916-342-9573 jtmarks@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.9.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt a resolution accepting the Aquifer Storage and Recovery – Monitoring Wells Project as complete and authorizing the Director of Environmental Utilities to execute the Notice of Completion.

BACKGROUND

On August 5, 2020, City Council adopted a resolution authorizing an agreement with Well Industries, Inc. dba North State Drilling for the construction of the Aquifer Storage and Recovery (ASR) – Monitoring Wells Project. The objective of this project was to install groundwater monitoring wells at up to eight (8) sites across the City.

On May 1, 2021, City of Roseville staff, confirmed that all punch list items have been completed and the project had been finalized per the Contract Document requirements. In compliance with the specifications and Faithful Performance bond, Well Industries, Inc. dba North State Drilling will guarantee the installation of all improvements for a period of twelve months from the date of Council acceptance.

FISCAL IMPACT

A construction agreement for $697,700 was awarded by City Council to Well Industries, Inc. dba North State Drilling for the ASR – Monitoring Wells Project. City Council also approved an allowance to pay contract change orders of up to 10% ($69,770) of the award price, for a not-to-exceed total cost of $767,470. Total cost to complete the project was $651,420. The project was completed within budget, with $116,050 of the approved project funding unspent. The project was funded by the Water Construction Fund.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not

considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. Approval of a Notice of Completion meets the above criteria and is not subject to CEQA. No additional environmental review is required.

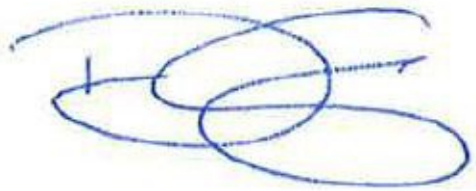
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Jason Marks, Senior Engineer

Richard Plecker, Environmental Utilities Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-242

Notice of Completion

RESOLUTION NO. 21-242

ACCEPTING THE PUBLIC WORK KNOWN AS THE AQUIFER STORAGE AND RECOVERY – MONITORING WELLS PROJECT, APPROVING THE "NOTICE OF COMPLETION", AND AUTHORIZING THE ENVIRONMENTAL UTILITIES DIRECTOR TO EXECUTE SAID NOTICE ON BEHALF OF THE CITY OF ROSEVILLE

BE IT RESOLVED by the City Council of the City of Roseville as follows:

1. The "Notice of Completion" on file in the City Clerk's Department relative to that public work known as the Aquifer Storage and Recovery – Monitoring Wells Project, has been approved and the public work accepted.

2. The Environmental Utilities Director is hereby authorized and directed to execute said Notice on behalf of the City of Roseville.

PASSED AND ADOPTED by the Council of the City of Roseville this_____day of _____, 20_____, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

RECORDING REQUESTED BY AND WHEN
RECORDED MAIL TO:

CITY CLERK
CITY OF ROSEVILLE
311 VERNON STREET
ROSEVILLE, CA 95678

Exempt from recording fees
Pursuant to Gov't Code §27383

NOTICE OF COMPLETION

NOTICE IS HEREBY GIVEN that the public work of improvement known as the Aquifer Storage and Recovery - Monitoring Wells Project was completed and accepted by the City of Roseville on _____. The location is situated in the City of Roseville, County of Placer, State of California and is indicated on the attached map, marked as Exhibit "A" and incorporated herein by this reference. The real property herein described is owned by the City of Roseville, 311 Vernon Street, Roseville CA 95678.

The direct/general contractor on said project was Well Industries Inc. dba North State Drilling.

The surety on said project was Harco National Insurance Company

_____.

_____

Richard D. Plecker

Environmental Utilities Director
City of Roseville
Owner

ATTEST:

_____
Sonia Orozco, City Clerk

State of California)
County of Placer)

I, Richard D. Plecker, being first duly sworn, depose and say: I am the Environmental Utilities Director of the City of Roseville, a municipal corporation in the State of California, owner of the property described in the above Notice. I am duly authorized to make this verification for and on behalf of the City of Roseville. I have read the Notice of Completion and know its contents and the facts stated therein are true.

_____

Richard D. Plecker

Environmental Utilities Director
City of Roseville

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Placer)

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20___, Richard D. Plecker proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

_____

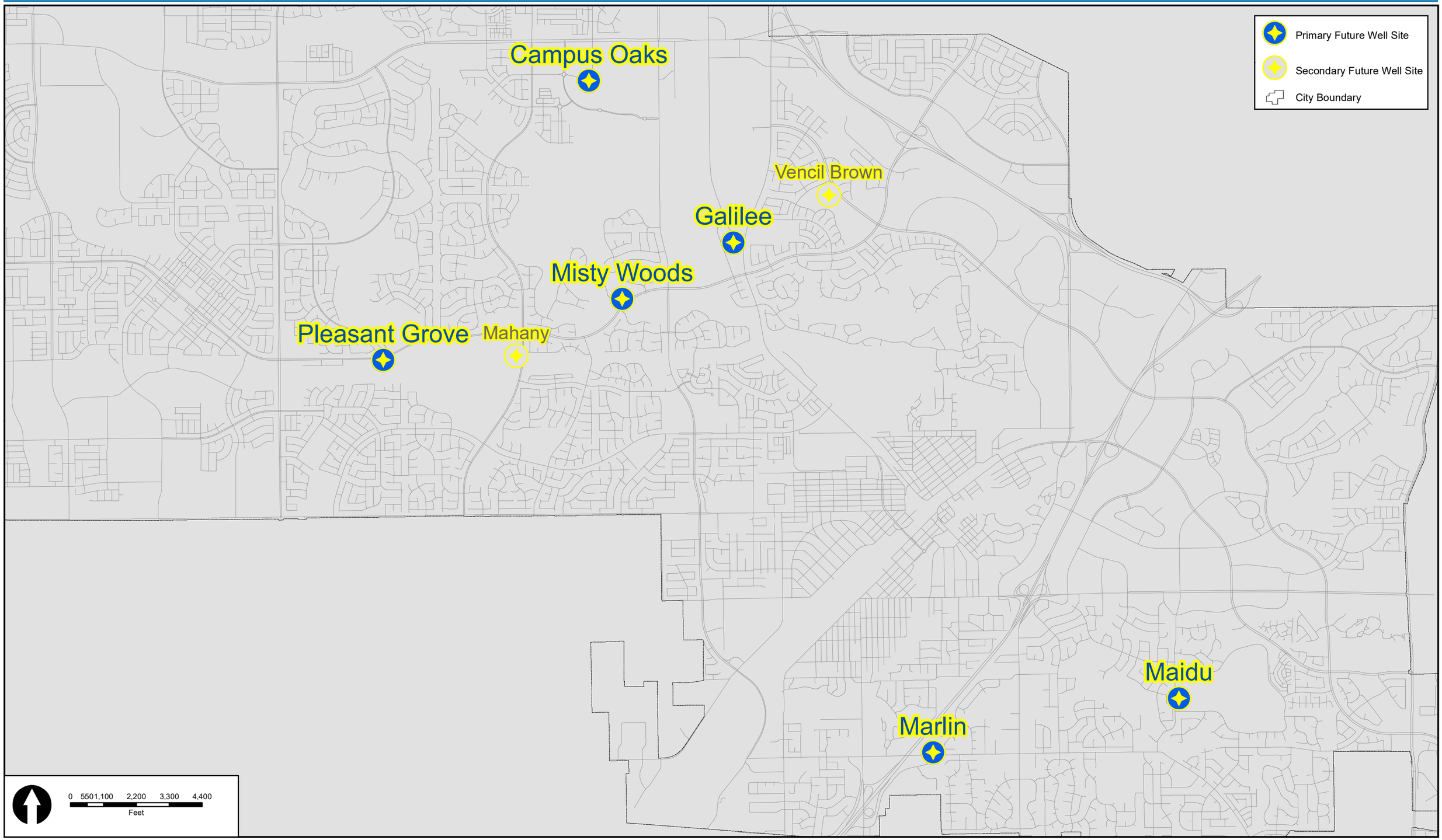
Place Notary Seal and/or Stamp Above *Signature of Notary Public*

CITY OF ROSEVILLE CALIFORNIA

EXHIBIT "A"

Aquifer Storage and Recovery

Environmental Utilities Department



B:\EU\EU-PROJECTS\WATER UTILITY\WATER_CIP\ASR & Groundwater Program\GIS\MXD\ASR_WellSites\Saved Down to 10pt2\SiteView_MonitoringWells_Exhibits_1021.mxd Date Saved: 5/6/2021 1:41:05 PM

COUNCIL COMMUNICATION

CC #: 1501
File #: 0800-03

Title:	California Independent System Operator Energy Imbalance Market - Credit Guaranty Agreement
Contact:	Petra Wallace 916-774-5510 pwallace@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.10.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt a resolution authorizing the City Manager to execute a Credit Guaranty Agreement with the California Independent System Operator (CAISO) for Energy Imbalance Market (EIM) transactions.

BACKGROUND

Roseville joined the CAISO's EIM on March 25, 2021 as part of the Balancing Authority of Northern California (BANC). BANC is a Joint Powers Authority consisting of the Sacramento Municipal Utility District, Modesto Irrigation District, Roseville Electric, Redding Electric Utility, Trinity Public Utility District and the City of Shasta Lake as its founding Members.

Since BANC is a balancing authority with no assets in its name, it does not have a large enough credit limit to sustain regular trading with the CAISO. Therefore, BANC members who joined the EIM have to issue or allocate a portion of their credit limit to cover BANC's responsibilities. Roseville's share is not to exceed $1 million.

FISCAL IMPACT

There is no fiscal impact associated with the allocation of the Credit Guaranty.

ENVIRONMENTAL REVIEW

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

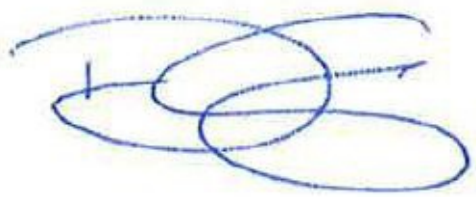
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world

Respectfully Submitted,

Petra Wallace, Electric Risk and Compliance Supervisor

Michelle Bertolino, Electric Utility Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-240

CAISO Guaranty Form

RESOLUTION NO. 21-240

APPROVING A CREDIT GUARANTY AGREEMENT, BY AND BETWEEN CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION AND THE CITY OF ROSEVILLE, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a Credit Guaranty Agreement, by and between California Independent System Operator (CAISO) and the City of Roseville, has been reviewed by the Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said agreement is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

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

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

GUARANTY

This Guaranty ("**Guaranty**") dated as of June 2, 2021 is made by City of Roseville Corporation ("**Guarantor**") for the benefit of the California Independent System Operator Corporation (the "**ISO**"). All capitalized terms not herein defined shall be given their meaning as set forth in the ISO Tariff.

RECITALS

A. Guarantor is the "Affiliate", as defined in the ISO's Tariff and Protocols, as in effect and promulgated from time to time (the "**Tariff**") of one or more persons (such Affiliates, collectively, the "**Market Participants**") that have entered into, desire to enter into or may in the future desire to enter into transactions in the ISO markets and/or schedule energy over the ISO-controlled transmission grid (collectively, "**Transactions**") under various agreements, including but not limited to the Scheduling Coordinator Agreement, Congestion Revenue Right Agreements, the Business Practice Manual for Credit Management and the ISO Tariff (collectively, "**Agreements**");

B. The Market Participants include the persons listed on Schedule 1, and all other Affiliates of Guarantor, whether or not named or presently existing, that become parties to Transactions or Agreements, or both, from time to time;

C. One or more Market Participants do not have a sufficient Aggregate Credit Limit to adequately secure its Estimated Aggregate Liability required under the Tariff to enter into Transactions;

D. Guarantor will directly or indirectly benefit from the Agreements and the Transactions to which any of its Affiliates become a party; and

E. Accordingly, in order to minimize the financial exposure of the ISO and its markets, Guarantor shall guarantee the prompt payment and performance of the obligations of each of the Market Participants to the ISO and its markets under the applicable Agreements, on the terms of this Guaranty.

NOW, THEREFORE, to induce the ISO to allow Market Participants to enter into Transactions and in consideration of the ISO agreeing to conduct business with Market Participant in accordance with the Agreements, Guarantor hereby covenants and agrees for the benefit of the ISO as follows:

1. GUARANTY. Subject to the provisions of this Guaranty, Guarantor hereby irrevocably and unconditionally guarantees the full and timely payment and performance when due of the obligations of Guarantor's share of Market Participants under the Agreements, whenever and by whomever incurred (the "**Obligations**") in accordance with the terms of the Agreements. In furtherance, and not in limitation of the foregoing, if any Market Participant fails to pay or perform any of the Guarantor's share of Obligation, Guarantor shall pay to or perform for the benefit of the ISO the amount or performance due in the same currency and manner and at the times

provided for in the Agreements. This Guaranty constitutes a guarantee of payment and performance and not of collection. The liability of Guarantor under the Guaranty is subject to the following:

(a) Guarantor's monetary liability under this Guaranty is specifically limited to payments expressly required to be made in accordance with the Agreements (even if such payments are deemed to be damages), together with the Costs (as set forth in Section 14 (*Costs and Expenses*)) and, except to the extent specifically provided in the Agreements or elsewhere in this Guaranty, in no event will Guarantor be subject under this Guaranty to consequential, exemplary, equitable, loss of profits, or punitive damages.

(b) Notwithstanding Section 1(a), the aggregate liability of the Guarantor under this Guaranty will not exceed $ 1,000,000 USD at any one time, plus Costs, which amounts may be allocated to Guarantor's share of Market Participants and Obligations in such amounts as the ISO, in its sole discretion, determines.

2. DEMANDS AND NOTICE. If any Market Participant fails to pay or perform any Obligations, the ISO may enforce Guarantor's share of liability without first proceeding against that Market Participant or any other Market Participant or resorting to any collateral, security or other guarantors or obligors, if any, or pursuing any other remedy. Guarantor shall pay to the ISO any and all amounts due by the Guarantor's share of Market Participant immediately upon delivery of notice from the ISO stating that such failure has occurred and the total amount then owing. No further detail shall be required in the ISO's notice, Guarantor agreeing hereby to look to the Market Participant for any and all relevant information regarding Market Participants' performance and liability. The liability of Guarantor to the ISO will in no way be diminished or delayed on account of any failure or delay in delivering such notice. If more than one Market Participant has failed to pay or perform any Obligations, the ISO may proceed against such Market Participants in such order and for such Obligations, or portions thereof, as the ISO, in its sole description, determines.

3. TERM. This Guaranty will remain in full force and effect until the date it is terminated by thirty (30) calendar days Notice from Guarantor to ISO. When this Guaranty is terminated in accordance with the foregoing, Guarantor will have no further liability hereunder, except as provided in the last sentence of this paragraph. No such termination will affect Guarantor's liability with respect to any Obligations arising from Transactions occurring prior to termination, or to pay any related Costs, regardless of when such Costs are incurred, so long as they are connected with such transactions.

4. REPRESENTATIONS AND WARRANTIES. Guarantor represents and warrants that:

(a) it is a municipal utility district duly organized and validly existing under the laws of the State of California and has the power and authority to execute, deliver and carry out the terms and provisions of this Guaranty;

(b) no authorization, approval, consent or order of, or registration or filing with, any court or other governmental body having jurisdiction over Guarantor is required on the part of Guarantor for the execution and delivery of this Guaranty;

(c) Guarantor understands and acknowledges that it is a condition of ISO's willingness to accept this Guaranty and allow one or more Market Participants to participate in the benefit of Transactions that Guarantor undertake to guaranty the Obligations of all of its Affiliates entering into Transactions, whether or not (i) such Affiliates exist or are Market Participants as of the date of this Guaranty, (ii) Guarantor has actual knowledge of a Market Participant's participation or of specific Transactions, (iii) such Affiliates are specifically identified in this Guaranty or in Schedule 1, or (iv) any Market Participant at any time has sufficient Aggregate Credit Limits to adequately secure its "Aggregate Liability" or "Estimated Aggregate Liability" as such terms are defined in the Tariff;

(d) this Guaranty constitutes a valid and legally binding agreement of Guarantor enforceable against Guarantor in accordance with its terms, except as the enforceability of this Guaranty may be limited by the effect of any applicable bankruptcy, insolvency, reorganization, moratorium or similar laws affecting creditors' rights generally and by general principles of equity; and

(e) that, as applicable, Guarantor, if it is a foreign guaranty, has fully read, understands and is in compliance with the acceptance criteria for foreign or Canadian guarantees as described in Section 5.4 or 5.5, respectively, of the Business Practice Manual for Credit Management.

5. NOTIFICATION OF MARKET PARTICIPANT STATUS. For the convenience of the parties, and not as a condition to any of the ISO's rights and remedies under this Guaranty, the ISO may from time to time notify Guarantor of those persons that the ISO believes to be Market Participants, provided that no errors in or failure to deliver such notice will in any way diminish any of the obligations of Guarantor with respect to any satisfying the definition of Market Participant under this Guaranty, whether or not such person was so identified in any such notice.

6. EFFECT OF BANKRUPTCY BY MARKET PARTICIPANT AND AS APPLICABLE, ALL AFFILIATES OF GUARANTOR. The Guarantor's obligation to pay under this Guaranty will not be affected in any way by the institution with respect to any Market Participant of a bankruptcy, reorganization, moratorium or similar insolvency proceeding or other relief under any bankruptcy or insolvency law affecting creditor's rights or a petition for any Market Participant's winding-up or liquidation.

7. AMENDMENT. No term or provision of this Guaranty may be amended, modified, altered, waived, or supplemented except in a writing signed by the Guarantor and the ISO.

8. WAIVERS. Guarantor hereby waives

(a) notice of acceptance of this Guaranty;

(b) presentment and demand concerning the liabilities of Guarantor other than as stated in Article 2 of this Guaranty;

(c) any right to require that any action or proceeding be brought against any Market Participant or any other person, or to require that the ISO seek enforcement of any performance against any Market Participant or any other person, prior to any action against Guarantor under the terms hereof;

(d) Guarantor's rights of subrogation, reimbursement, indemnification, and contribution and any other rights and defenses that are or may become available to the Guarantor by reason of California Civil Code Sections 2787 to 2855, inclusive, or any other source of law; and

(e) Any rights or defenses the Guarantor may have in respect of the Obligations as a guarantor or other surety by reason of any election of remedies by the creditor, regardless of whether such election has destroyed Guarantor's rights of subrogation and reimbursement against any Market Participant.

9. RIGHTS OF THE ISO. In furtherance, and not in limitation of the waivers in Section 7 (*Waivers*), Guarantor acknowledges and agrees that: (i) any collateral, security or obligations of any other guarantors or obligors relating to the Obligations, if any, may be sold, released, surrendered, exchanged, settled, compromised, waived, subordinated or modified, in each case without consideration and on any terms or conditions, without notice to or further assent from Guarantor; (ii) all remedies, rights, powers and privileges granted to the ISO pursuant to this Guaranty are cumulative and not alternative; (iii) the exercise of any or all such rights by the ISO will not reduce, limit, impair, discharge, terminate, or otherwise affect the liability of Guarantor; (iv) except as to applicable statutes of limitation, no delay of the ISO in the exercise of, or failure to exercise, any rights hereunder will operate as a waiver of such rights, a waiver of any other rights or a release of Guarantor from any Obligations.; (v) no partial exercise of any such rights will preclude the further exercise of such rights or the exercise of any other remedy or right by the ISO; and (vi) Guarantor consents to the renewal, compromise, extension, acceleration or other changes in the time of payment of or other changes in the terms of the Obligations or any changes or modifications to the terms of the Agreements, as such changes or modifications relate to the Guarantor's performance under this Guaranty.

10. GUARANTOR'S OBLIGATIONS INDEPENDENT. Guarantor's obligations under this Guaranty are independent of those of any Market Participant. Guarantor's obligations under this Guaranty are also several and independent of any other guarantees in effect with respect to any part of the above obligations and may be enforced regardless of the existence of any other guarantees. The ISO may bring an action against Guarantor without first proceeding against any Market Participant or any other person or security held by or for the benefit of a Market Participant and without pursuing any other remedy. The ISO's rights under this Guaranty will not be exhausted by any action of the ISO until all of the Obligations have been fully paid and performed.

11. RIGHTS OF SUBROGATION. Guarantor will have no right of subrogation with respect to any payments it makes under this Guaranty until all of the Obligations of the Market Participant are paid in full.

12. ASSIGNMENT. The Guarantor may not assign this Guaranty without the express written consent of the ISO. The ISO may assign its rights under this Guaranty in its sole discretion.

13. NOTICE. Any notice, request, instruction, correspondence or other document to be given hereunder by any party to another (each, a "**Notice**") must be in writing and delivered by nationally recognized overnight courier, or mailed by certified or registered mail, postage prepaid and return receipt requested, or by telegram or telecopier, as follows:

To the ISO:
California Independent System Operator Corporation
250 Outcropping Way
Folsom, CA 95630
Attn: Treasury Department
Fax No.: (916) 608-5071

To Guarantor:
City of Roseville
311 Vernon Street
Roseville, CA 95678
Attn: Settlements
Fax No.: (916) 797-6937
Email: settlements@roseville.ca.us

Notice given by courier or mail will be effective upon actual receipt. Notice given by telegram or telecopier will be effective upon actual receipt if delivered during the recipient's normal business hours, or at the beginning of the recipient's next business day after receipt if not received during the recipient's normal business hours. All notices by telegram or telecopier will be confirmed promptly after transmission in writing by certified or registered mail or personal delivery.

14. COSTS AND EXPENSES. Guarantor shall pay all reasonable costs and expenses (including, without limitation, reasonable attorneys' fees) incurred by the ISO to enforce this Guaranty (collectively, "**Costs**") provided that the Guarantor shall not be liable for any Costs if no payment under the Guaranty is due.

15. MISCELLANEOUS. THIS GUARANTY WILL IN ALL RESPECTS BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF CALIFORNIA, WITHOUT REGARD TO THE PRINCIPLES OF CONFLICTS OF LAWS. This Guaranty will be binding upon Guarantor, its successors and assigns and inure to the benefit of and be enforceable by the ISO, its successors and assigns. Any action, claim, dispute, cause of action or litigation of any kind related to or in any way arising out of this Guaranty initiated by Guarantor or a representative of the ISO will

be brought in a State or federal court within Sacramento County, California. Guarantor and the ISO irrevocably consent, submit and attorn to the personal jurisdiction of such courts solely in connection with actions arising from this Guaranty, and to service of process by any means authorized by California law, and hereby waive the right to transfer the venue of any such litigation. Guarantor hereby waives any rights or defenses of sovereign immunity in connection with this Guaranty. The Guaranty embodies the entire agreement and understanding between Guarantor and the ISO and supersedes all prior agreements and understandings relating to the subject matter hereof. The headings in this Guaranty are for purposes of reference only, and will not affect the meaning hereof.

16. TARIFF IMPLICATIONS. The making of this Guaranty will not subject Guarantor to the requirements of any provisions or protocols of the ISO Tariff that would not apply to Guarantor in the absence of this Guaranty.

EXECUTED as of the day and year first above written.

Name:_____

Title_____

Date:_____

COUNCIL COMMUNICATION

CC #: 1511
File #: 0900-03

Title:	Electric Dispatch Center Renovation Project - Design-Build Construction Agreement Amendment and Budget Adjustment
Contact:	Chris Porter 916-774-5615 cporter@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.11.

RECOMMENDATION TO COUNCIL

Staff recommends City Council take the following actions:

1. Adopt a resolution authorizing the City Manager to execute Amendment #1 to the Design-Build Construction Agreement for the Electric Dispatch Center Renovation with CB2 Builders Inc.

2. Authorize the Electric Utility Director or designee to approve and pay for contract change orders up to 10% of the revised contract amount.

3. Adopt an ordinance approving the attached budget adjustment.

BACKGROUND

Roseville Electric Utility is in the process of improving and modernizing its electric dispatch center to meet current and future operational needs, taking advantage of current technologies in dispatch center design and functionality.

In June 2020, Roseville Electric Utility solicited proposals through RFP 07-061 for Design and Construction Services for the Design-Build Electric Dispatch Center Renovation Project, seeking a vendor to provide turnkey services for the completion of the Electric Dispatch Center project. The scope of work included design, procurement, materials, construction, documentation, installation, integration and testing of building improvements and equipment. A contract was subsequently awarded to CB2 Builders Incorporated with a contract price of $1,274,610.16.

The initial tasks in the contract was to produce design documents and construction documents. From these documents, the contractor provided an Estimate of Probable Construction Costs. The Estimate of Probable Construction Costs for this contract is $1,991,158.66. The main contributors of the increase, from the original contract, are: the upgrade of the Heating, Ventilation, & Air Conditioning (HVAC) system, modifications to the fire suppression system, exterior ADA compliance work, and electrical system improvements. A budget adjustment is required in the

amount of $665,000.00 in order to fund the increased contract amount, the 10% change order authority and cover internal staff labor.

FISCAL IMPACT

Approval of the attached Design-Build Construction Contract Amendment #1 brings the total contract amount to $1,991,158.66 with a 10% or $199,115.87 contingency not to exceed $2,190,274.53. Approval of the recommended budget adjustment appropriates an additional $665,000 in funding from the Electric Fund for FY2020-21, bringing the total project budget to $2,965,000.

ENVIRONMENTAL REVIEW

Activities associated with the project were previously considered and approved by City Council on June 3, 2020, and identified as categorically exempt from CEQA as a Class 1 Exemption (State CEQA Guidelines Section 15301). Therefore no further CEQA action is required.

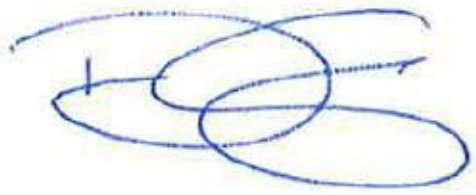
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal E - Deliver exceptional city services
Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Chris Porter, Power Engineering Manager

Michelle Bertolino, Electric Utility Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-249

CB2 Contract

Ordinance 6372

Budget Adjustment

RESOLUTION NO. 21-249

APPROVING A FIRST AMENDMENT TO DESIGN-BUILD CONSTRUCTION AGREEMENT, BY AND BETWEEN THE CITY OF ROSEVILLE AND CB2 BUILDERS INCORPORATED, AND AUTHORIZING THE CITY MANAGER TO EXECUTE IT ON BEHALF OF THE CITY OF ROSEVILLE

WHEREAS, a First Amendment to Design-Build Construction Agreement for the Electric Dispatch Center Renovation project, by and between the City of Roseville and CB2 Builders Incorporated, has been reviewed by the City Council; and

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said First amendment is hereby approved and that the City Manager is authorized to execute it on behalf of the City of Roseville.

BE IT FURTHER RESOLVED that the City Manager or his designee is authorized to approve change orders for the project, consistent with the contract terms, provided that the net cost of all change orders shall not exceed ten percent (10%) of the revised contract amount.

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

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

FIRST AMENDMENT TO

DESIGN-BUILD CONSTRUCTION AGREEMENT

Project: Electric Dispatch Center Renovation

THIS FIRST AMENDMENT TO DESIGN-BUILD CONSTRUCTION AGREEMENT is made and entered into this ___ day of _____, 20__, by and between the City of Roseville, a municipal corporation ("CITY"), and CB2 Builders Incorporated, a California corporation ("CONTRACTOR"); and

W I T N E S S E T H:

WHEREAS, CITY and CONTRACTOR previously entered into a Design-Build Construction Agreement dated June 3, 2020, ("Agreement") to provide design and construction services for the Electric Dispatch Center Renovation project ("Project");

WHEREAS, CITY desires to amend the Agreement, pursuant to section 6.5.1 and in accordance with section 4.3.4 of Exhibit "F" to the Agreement, to include additional services found necessary to complete the project that were not evident until work on the project was underway and final plans were developed, as described in CONTRACTOR's revised proposal, dated May 13, 2021, which is attached hereto as Exhibit "1" and incorporated herein by reference; and

WHEREAS, CONTRACTOR is willing and able to provide such additional services; and

NOW, THEREFORE, the parties agree as follows:

1. CONTRACTOR shall provide additional services as described in Exhibit "1" of this First Amendment to Agreement. Exhibit "1" of this First Amendment to Agreement shall replace the "Scopes of work" and "Cost sheet" dated April 20, 2020, provided for in Exhibit "F" to the Agreement. Additionally, the "Guaranteed Maximum Price", as defined in section 1.35 of the Agreement, and detailed in Exhibit "A" to the Agreement, shall be changed to and not exceed the new Exhibit "1" amount of one million, nine hundred ninety-one thousand, one hundred fifty-eight dollars and sixty-six cents ($1,991,158.66).

2. All other provisions of the Agreement shall remain unchanged and in full force and effect.

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

CITY OF ROSEVILLE, a municipal corporation

BY: _____
DOMINICK CASEY
City Manager

CB2 BUILDERS INCORPORATED, a California corporation

BY: T. Campagna
Tony Campagna
its: President

[SIGNATURES CONTINUED ON FOLLOWING PAGE]

ATTEST:

BY: _____
SONIA OROZCO
City Clerk

APPROVED AS TO FORM:

BY: _____
ROBERT R. SCHMITT
City Attorney

APPROVED AS TO SUBSTANCE:

BY: Michelle Bertolino (May 19, 2021 13:40 PDT)
MICHELLE BERTOLINO
Electric Utility Director

and

BY: _____
Lori A. Campagna
its: Chief Financial Officer

EXHIBIT "1"

cb² builders
Building Excellence

May 13, 2021

Mitch Larkin
Roseville Electric Utility
2090 Hilltop Circle
Roseville, CA 33948-1094

RE: Revised Proposal for Electric Utility Dispatch Center Renovation Contract

Dear Mitch:

Per our discussion, and your request, we are pleased to provide you with our revised Scope of Work proposal document for our contract to date.

Scopes of Work:

General Conditions: 007200	1. The duration of our project has increased from the original proposed 12 weeks to 19 weeks due to the increased scopes of work which has increased the project's supervision and project management cost. Due to the increased scopes of work that have increased the project management and supervision labor costs to a project duration of 19 weeks for the Superintendent, Project Manager, Project Engineer, Project Accountant, and Project Assistant.
General Requirements: 007200	1. The duration of our project has increased from the original proposed 12 weeks to 19 weeks due to the increased scopes of work which has increased the project's labor cost. Due to added scope inside and outside of the facility, additional costs are required for drawings, temporary sanitary facilities, temporary barricades, temporary protection, added debris boxes and pandemic related protocols that were not in the original proposal. 2. Added cost for special inspections as shown on drawings.
Architectural Services: 008000	1. Additional architectural support provided for added scope of work changes, plan revisions, and subcontractor proposal validation previously not provided.
Selective Demolition: 024119	1. Provide all temporary shoring, barricades, and scaffolding. Demo existing suspended acoustical ceiling system, existing gypsum board ceiling, light fixtures as shown on the drawings, including all supports and anchors. 2. Demo existing partitions, glazing, and soffits as shown on the drawings to be removed. 3. Remove and salvage the restroom plumbing fixtures and accessories. 4. Demo all existing flooring and base, millwork, and FRP in bathroom. 5. Perform selective demolition of ductwork and demo at walls for new ductwork openings. 6. Remove sheet rock for installation of added plywood backing for video wall. 7. Remove & salvage existing (FLS) horn/strobe/occupancy and salvage for possible reuse. 8. Remove existing door assemblies identified for removal/relocation. 9. Remove all associated electric and data outlets not to be utilized. 10. Remove existing thermostats. Drop and haul out all abandoned conduit and mechanical equipment. 11. Progressive clean-up and dumpster costs are included for the duration of the project and at least 50% of construction waste materials are to be recycled.
Rough Carpentry: 061000	1. Furnish labor, lumber and structural rough opening for entry as noted. 2. Furnish all hardware and fasteners for rough carpentry as noted. 3. Provide layout for carpentry work including bolt and anchor bolt layouts for wood sills. 4. Provide all necessary equipment for handling and hoisting materials. 5. Framing lumber: 2x – S-Dry: 3x and larger – Air Dried to 19%. No FSC certified lumber is included for new HVAC roof mounted units. 6. Frame all head-outs, roof, wall, framing for mechanical units, ceiling penetrations, and other framed opening including wood framing and hardware to complete new opening per 13/S5.1. 7. Provide FRT plywood at Display Wall per callouts on Sheet A5.2.

Millwork / Casework: 062200	Control Room Elevation A: 1. Lower Cabinetry with Plastic Laminate finish; Wilsonart Product: Carbon Mesh 4880-38 2. Solid Surface countertop; Silestone Product: White Storm. 3. Fasteners, casework hardware, keying, blocking, backing, and shimming. 4. Continue down sides of cabinet as shown on elevations. Control Room West Wall: 5. Lower Cabinetry with Plastic Laminate finish; Wilsonart Product: Carbon Mesh 4880-38 6. Solid Surface countertop; Silestone Product: White Storm. 7. Continue down sides of cabinet as shown on elevations. Break Room: 8. Lower Cabinetry with Plastic Laminate finish; Wilsonart Product: High Line 79970k-18 9. Upper Cabinetry w/ P-lam finish; Manufacturer: Wilsonart Product: Magnolia 5012k-19 10. Solid Surface countertop; Silestone Product: White Storm.
Membrane Roofing: 075200	1. Tear off and disposed of roughly 400 SF where the new HVAC units will be installed. 2. Install 1/4" Dens Deck gypsum board mechanically fastened. 3. Install new rigid insulation board to match existing. 4. Install 60mil PVC Single ply Tremco TPA membrane. 5. Flash around HPs 1 and 2 curbs per detail 4/M0.2. Flash in (6) new pipe penetrations and EF curbs.
Frames/Doors/Hardware: 081000	1. 01A - Furnish and install (1) set of double wood doors with vision panels at entry in new aluminum frame. 3'0"x8'0" prefinished stain grade wood door, ½ lite with ¼" clear tempered glass (active leaf). 3'0"x8'0" prefinished stain grade wood door, ½ lite with ¼" clear tempered glass (inactive leaf). 2. 04A – Remove and reinstall relocated wood door with existing hardware in new aluminum frame for bathroom door. 3. 05A - Provide 3'0"x8'0" prefinished stain grade breakroom door. 4. Furnish and install 6'0"x8'0" and 3'0"x8'0 clean anodized aluminum frames. 5. Install new door closures, automatic door bottoms, sweeps, and seals. 6. Provide all door hardware as specified on drawings and specifications, except electrified locking hardware (by Security Contractor). 7. Complete wiring for electrified hinges.
Glazing: 088000	The glazing scope of work includes a complete floor to ceiling office storefront assembly and a glass door. 1. Provide monolithic glass ½" Clear – Tempered – per plans and specifications. 2. Provide C.R. Lawrence Hardware as listed on Plan Drawing A8.1 for installation of ½" frameless glass wall w/ door. 3. Provide caulking from floor to sill U-channel using DOWSIL 795. 4. Provide top and bottom U channels, single door w/ concealed header and closer, patch fitting w/ picots, bottom patch fitting w/ door lock, pull handles, 1/2" clear tempered safety glazing - 1 - 2'-0" x 14'-10" L shape x 8'-0" tall single door. 5. Provide complete submittal package w/ product data, samples, and shop drawings. 6. Field measures all glazing and provide square cuts outs as required. 7. Cleanup and remove excess silicone, labels, and warning squares at time of installation.
Drywall/Framing: 092900	1. Patch all demo scars and at demolished outlets, relocated switches, t-stats, etc. 2. Provide new wall infills and open/patch gyp board for new Electrical and Plumbing at existing walls. 3. Provide metal stud backing for casework and video displays, wall backing for fixtures, grab bars, and special equipment as needed. 4. Provide sound batt insulation at new walls. 5. Patch ceilings and soffits and walls at removed floor base, per plan.

	6. Provide new gypsum board headers/soffit above new glass panels and furred walls. 7. Provide roller shade header - Detail 24/A8.2. 8. Fire sealing at all penetrations of protected areas. 9. All finished walls to be texture finished to match/blend with existing.
Access Flooring: 096900	1. The room's access flooring will need to be opened in certain areas for reworked electrical, cabling, fire suppression system and HVAC controls conduit interconnects to accommodate the design. A specialized access flooring subcontractor will be utilized to ensure that the access flooring is reestablished, and penetrations are completed and sealed as needed and then leveled prior to the installation of new flooring.
Acoustical Ceilings: 095100	1. Provide new ceiling system with framing for fixtures, grilles, etc. per plans including: Grid and ceiling height partition bracing at new and existing walls. Armstrong 2x2 #7301 15/16" Heavy Duty Grid System in white color - ACT-1 Armstrong 2x2 #1941 Ultima High-NRC Open Plan Tegular Panels in white color - ACT-1 Armstrong 2x2 #7301 15/16" Heavy Duty Grid System in white color - ACT-2 Armstrong 2x2 #1941 Ultima High-NRC Open Plan Tegular Panels in white color - ACT-2 2. Include all wires at terminal ends, seismic partition bracing wires, trim, and clips per code. 3. Access and close ceiling and grid for all air balancing and/or plumbing, electrical, HVAC revisions, etc. 4. Provide layout of the grid including starting points and elevations in an approved shop drawing and in field. 5. Repair or replace all damaged ceiling grid after above-ceiling work completed by other trades. 6. Provide for heading off and bracing of ceiling grid where light fixtures, etc. intersect main runners. 7. Frame grid as required for fixtures, registers, and all other incorporated components.
CPT/LVT/SV Flooring: 096500	1. Provide new carpet (CPT-1 and CPT-2), luxury vinyl tile (LVT), and sheet vinyl (SV-1) per plans and specs. 2. Provide new base at all existing walls as required or shown. Include accessories, transition strips, adhesive pad, tack strips, etc. for a complete installation as submitted and approved. 3. Provide miscellaneous floor prep as required, including cutting for and removal and replacement of door stop and screws at doorways. 4. Allow for reinstallation of carpet tile in the quantity of one complete pass for any punchlist or corrective work.
Acoustical Wall Panels: 098420	1. Provide acoustic panels, per page A5.2, detail 1, keynote 9.40.
Painting: 099000	1. Paint existing door frames to remain and bathroom walls. 2. Provide (1) prime coat and (2) finish coats to all elements to be painted per plans. 3. Provide (8) hours of touch-up prior to punchlist. 4. Included - priming, finishing, and punchlist painting to all areas affected by construction or noted to be painted. This includes minor miscellaneous patching prior to painting to provide an acceptable substrate. Spot screw holes and flaws, seal edges as required and coordinate complete with tapers. 5. Provide protection to paint adjacent to or on top of other finishes. 6. Included - caulking as required between dissimilar surfaces prior to painting to eliminate gaps.
ADA Work / Bathroom Accessories: 101400	1. Provide new ADA compliant sink and faucet in new breakroom millwork. 2. Provide new in wall blocking, bathroom accessories, and a new mirror. 3. Provide signage per plans. 4. Exterior Path of Travel Work.
Storage Lockers: 105601	1. Excluded

Fire Suppression: 210000	1. Demo and removal of existing Halon fire suppression system tanks and piping. 2. Provide fire suppression system design, coordination, materials & labor to install FM 200 fire suppressions system per requirements. Areas to be protected include: Control Room, Battery Room, Computer Room, and Senior Operators Office. 3. Submit the Design/Submittal package include the Roseville FD Permit fee. 4. Provide all necessary equipment, installation, project management, pre and final testing services for the zones required per plans and specifications. In addition to supplying and installing the new Clean Agent System, demo and remove the existing Halon System. 5. Fire Suppression System Equipment to include: • Janus JFS-IP60 addressable control cabinet with necessary interface relays, • FM-200 Releasing Control Panel w/ Automatic battery backup, • Tanks and equipment to be installed for the rooms and sub floor zones served, • FM-200 Clean Agent, • Addressable Smoke Detectors w/ bases, • Abort Stations and Manual Release Stations, • Monitor Modules and Relay Modules, • Maintenance Bypass Switch, • Horn/Strobes, Strobes, and Signs, • (1) Pre-Test and (1) final functional test to be witnessed by the local authority, • As Built Drawings, • One-Year warranty on System Components 6. Terminate and mount all devices and system panel. 7. Demo of existing above ceiling wet fire suppression system and a new installation of a Pre-Action System in the above ceiling area of the dispatch center room only. To include select seismic upgrades to support this new system in this section of the building.
Plumbing: 220000	1. Safe off and disconnect existing plumbing and complete final hook-up of new breakroom sink and faucet. Protect and store restroom plumbing fixtures to be removed to be reinstalled. 2. Remove and replace existing break room sink and faucet with new as per A6.1. 3. Remove and reconnect existing instant hot water dispenser and a water filter system. 4. Provide insulation as required. 5. Remove and reinstall one (1) existing toilet, one (1) sink in the bathroom. 6. Condensate piping and drains for HVAC equipment to meet code. 7. Coordinate plumbing layout with millwork.
HVAC: 230000	Scope of work includes but is not limited to the following: 1. Perform preconstruction site visit for layout and coordination purposes. 2. Safe off and removal of existing roof top units. Safe off & demo existing condensate and gas as needed. 3. Provide HVAC equipment including two (2) rooftop heat pumps, ductwork, associated piping and ductwork shop drawings, submittals, and shop drawings within 1 week. 4. Furnish and install One (1) suspended inline exhaust fan with vibration isolation. 5. Furnish and install One (1) roof mounted exhaust fan. 6. Provide and install two (2) factory vibration isolation roof curbs. 7. Provide all angles and clips for roof mounted EF and HPs. 8. Provide (2) exhaust grilles. 9. Fabricate and install exhaust ductwork to the breakroom and Office 07. 10. Included equipment startup and testing per manufacturer's O&M manual. 11. Provide (13) supply air grilles, (11) return air grilles, and (1) sidewall grille. 12. Provide (11) control dampers without actuators. 13. Provide for a complete operational system. Provide all coordination and testing required with Building Operations for a complete working system. Coordination of all installation with other trades as needed. 14. Install smoke duct detectors ready for electrical hook-up. 15. Submit as-built drawings, O&M manuals, and closeout documents prior to project completion date.
Testing, Adjusting, and Balancing: 230593	1. Complete air balancing for the remodeled spaces per plans and specifications. (Included in mechanical)

HVAC Controls: (L&H Airco) 230923	1. Provide all HVAC control work compatible with building system. 2. Remove existing Alerton controller, supply air temperature sensor, fan status current switch, return air temperature sensor and safe-off communication cable, MS-4 zone temperature sensor and server room temperature sensor. 3. Install existing Alerton controller, existing supply air temperature sensor, existing fan status current switch, existing return air temperature sensor, extend/connect existing cable to MS-4 temperature sensor & server room temperature sensor, provide economizer control over factory furnished Belimo actuator and low voltage connection for duct smoke detector shutdown as required. 4. Install new Alerton controller, zone temperature/CO2 sensor with LCD, supply air temperature sensor, fan status current switch, return air temperature sensor, provide economizer control over factory furnished Belimo actuator and low voltage connection for duct smoke detector shutdown as required. 5. Provide all HP-1 isolation actuators for HP-1 and HP-2. 6. Interlock (EF-1) with both HPs. 7. Interlock isolation actuators with fire suppression system. 8. Field install Alerton controls and terminate to HPs using manufacture provided and installed conventional thermostat interfaces. 9. Provide CEC approved Economizer Fault Detection and Diagnostics (FDD) system for Alerton controlled economizers. 10. Note: HP supplier to provide and install Belimo economizer actuator, only (All economizer control by Alerton). 11. Provide Automated Demand Response (ADR) capabilities. 12. Provide demand control ventilation (DCV) as required. 13. Provide low voltage control transformers as required. 14. All control wire and interlocks, at buildings, to be installed outside of conduit where acceptable by code. 15. Provide engineering submittals, programming, graphics, as-builts and O&M manuals
Electrical: 260000	Scope of work includes but is not limited to the following: 1. Provide working Electrical and FA systems per plans, local code and authority having jurisdiction (AHJ). Please see spec sections 212200, divisions 23, 26, 28, and especially 284600 Fire Detection and Alarm. 2. Safe off for selective demolition as needed, including furniture whips. 3. Provide new Panel EMU2 and Panel CP. 4. Provide 30KVA transformer and transformer support rack. 5. Provide 15KVA UPS 480vac input / 208/120vac output - Feeder breaker 3 pole 90amp from panel EMC will need to have a shunt trip coil. 6. Provide lighting fixtures and lighting controls packages per plans and specifications, including motion and daylight sensors and backup power packs. 7. Provide (2) 3-phase 40amp 480vac circuits for HP-1 and HP-2 with shunt trip coils. 8. Provide 1-phase 20-amp circuits to EF-1 & 2. 9. Provide dedicated 120vac 20amp circuits panel EMU-2 control room stations. 10. Provide 3phase 40amp 480vac circuits for HP-1 and HP-2 with shunt trip coils. 11. Provide 20amp quad receptacles from panel EMU-2 for video display wall. 12. Provide dedicated 120vac 20amp circuits from panel CP control rm stations & break rm. 13. Provide all 120vac 20-amp duplex receptacles per plans and spec from panel CP. 14. Provide power for rooftop GFI maintenance receptacles. 15. Provide ring / string drops per plans. 16. Provide raceways for duct detectors and (1) raceway to computer room for notification from fire suppression panel in the control room. 17. Provide one dedicated 120vac 20amp circuit to fire suppression control panel. 18. Provide as-built drawings and O&M manuals by project completion as required. 19. Provide 3phase 15amp 480vac feeders from panel EM1 to roof top power exhaust. 20. Install raised floor rack supports for UPS rack. 21. Provide fire suppression interface for the FA system. 22. Dedicated circuit, control wiring for HP-1&2 - Fire Alarm contractor needs to include monitoring, trouble, and alarms. 23. Add an EMT conduit for ethernet to the new Fire Suppression control panel from the computer. 24. Provide the raceways for power and control wiring to the FM-200 fire releasing panel and

	any pathways to the house panel. 25. Provide new power strips and power (1 circuit at each console) to consoles and provide NEMA 5-20R receptacles at each console. 26. Provide & install j-boxes secured to the depressed concrete slab floor beyond the footprint of the consoles for future access. 27. Provide & install flexible conduits hard wired to the j-boxes below the floor at one end and with j-boxes and receptacles secured to the console steel frames at the other end. 28. Additional Electrical work: re-routing of lighting and power circuits from Panel "EMB", the addition of (27) furniture connections, the relocation of several switches and receptacles. 29. Electrical Deductions for work not performed: For the "CP" and Transformer, removal of Shunt trips for HVAC units not needed, and the removal of added receptacles on monitor wall that were not needed based on revised drawing received.
A/V Equip: 274116 (Mauell)	1. Provide new rack and anchoring components for new UPS system.
Security Access Control: 283101 (Johnson Controls)	2. Demo existing reader and BA sensors inside the Electric Dispatch Room. Retain anything that is salvageable. 3. Safe off the wires to avoid demo. After demo, asses the cable condition. Replaces wire damaged by demo. 4. Remove the existing card reader at the panel and mute the door in the P200 with programming. 5. Remove the Zone from the DSC panel. 6. Install reader at the new location. Install new door contacts on new door. 7. Door contractor to wire on hardware side of transfer hinge. 8. Wire jam side of transfer hinge including lock power and Request to Exit device. 9. Restore card reader programming and test. 10. Install salvaged (or new) motion detectors and restore the zone to the DSC panel and test. 11. Provide electrified door hardware for entry doors 01A. 12. Provide as-built drawings and O&M.
Fire Alarm Systems: 284600 (Sierra Building Systems)	1. Provide and install a Design Build Fire Alarm System extension from the existing House Fire Alarm Control Panel 2. Relocate existing Fire Alarm Horn Strobe in the Control Room currently adjacent to the main entry to Control Room wall along Grid Line 2. 3. Provide and install new Strobe in the Break Room. 4. Provide and install all NAC and SLC cabling in conduits where required and furnished by the Electrical contractor. Cabling shall be installed according to NFPA 70 Article 760. 5. Install and terminate SBS provided field devices. Include make up back boards and head end systems. 6. Remove two (2) magnetic door holders. 7. Provide Shop drawings and submittal data, Technical/Commissioning/Programming, and Testing. Labor will be provided by NICET Certified, State Certified Fire/Life Safety and Factory Trained/Certified Technicians.

Clarifications:

1. All work to be performed during regular hours.
2. Contractor will provide industry standard (1) one-year warranty.
3. All subcontractor(s) to provide standard (1) one-year warranty including any applicable manufacturer's limited warranty unless otherwise noted.
4. The General Conditions costs for change orders shall be calculated at the cost to administer the change.
5. This proposal is valid for (30) days.

Exclusions:

1. We assume all existing construction conforms to current code requirements. Any modification required upgrading existing architectural and/or MEP elements other than shown on the drawings is excluded.
2. All building charges, including but not limited to utilities, security, and engineer costs.
3. Quantity verification and quality control of Owner provided reused materials.
4. Replacement of any damaged/defective Owner provided reused materials.
5. Building Information Modeling (BIM) services.

6. Keying.
7. Seismic upgrade of existing installations.
8. Haz-mat (containment, abatement, disposal, etc.)

Should you have any questions, please call me at 415.385.3953.

Respectfully submitted,

Charlie Phipps

Senior Project Manager
cphipps@cb2builders.com

cb² builders
Building Excellence

COST SHEET

Project: Roseville Design-Build Electric Dispatch Renovation Project
Address: 2090 Hilltop Circle, Roseville, CA
Roseville, CA 95678

Date: 5/13/21
Est.: CTP / DKP

Costs to Date

Code	Description	Subcontractor			UPDATED TOTALS
007200	General Conditions	CB2 Builders			184,272.80
008000	Architectural	Elements Architecture			98,950.00
009001	Consulting Engineer - MEP	Elements Architecture	*included*		0.00
009002	Consulting Engineer - Civil	WCE			11,000.00
009003	Consulting Engineer - Structural	Elements Architecture	*included*		0.00
010000	General Requirements	CB2 Builders			24,722.47
014523	Special Inspections	Kleinfelder			3,500.00
017423	Final Cleaning	CB2 Builders			770.00
024119	Selective Demolition	JML Engineering			18,951.14
061000	Rough Carpentry / Structural	BP Interiors, Inc.			44,016.12
062200	Millwork	Burnett & Sons			35,040.06
065213	FRP	CB2 Builders			1,510.41
075200	Roofing	All Seasons North Roofing			16,717.00
081000	Frames/Doors/Hardware	Discovery Door			12,399.00
088000	Glazing	Acosta Glass			11,308.82
092900	Drywall/Framing	BP Interiors, Inc.			43,337.25
095100	Acoustical Ceilings	Ceiling Experts			11,270.00
096500	Flooring (Resilient / CT)	Golden State Commercial Fl			15,138.70
096900	Flooring (Access Flooring)	Partition Specialties, Inc.			3,325.00
097723	Acoustic Wall Panels	Monticelli			5,081.00
099000	Painting	Monticelli			9,319.00
101400	ADA Work (Interior)	CB2 Builders			3,196.59
122400	Window Shades	Best Blinds and Tinting, Inc.			2,662.75
210000	Fire Suppression	Western States Fire Protection			162,872.33
220000	Plumbing	Airco			12,023.50
230000	HVAC	Airco			193,432.30
230923	HVAC Controls	L&H Airco			29,962.50
260000	Electrical	Sebastian			224,860.75
274116	Audio Communications Systems	Mauell			562,457.48
283100	Fire Alarm System (FLS)	*Included in Electrical*			0.00
283101	Security Access Control Devices	Johnson Controls			11,656.70
321712	Pavement	Sierra National			39,436.00
		Subtotal			1,793,189.67
003146	Permits and Licenses to Date	0.00%			2,438.08
400200	Insurance (PL/PD/GL/U/WC)	1.75%			31,376.35
400300	Insurance (Builders Risk)	0.10%			1,783.44
400500	Fee	7.00%			126,052.38

cb² builders
Building Excellence

COST SHEET

Project: Roseville Design-Build Electric Dispatch Renovation Project
Address: 2090 Hilltop Circle, Roseville, CA
Roseville, CA 95678

Date: 5/13/21
Est.: CTP / DKP

Costs to Date

Code	Description	Subcontractor			UPDATED TOTALS
400400	Gross Receipts Tax	0.23%			**4,505.63**
017833	Bonds	1.85%			**31,813.11**
		TOTAL			**1,991,158.66**

CB2 amendment First Amendment to D-B Construction Agreement PE

Final Audit Report 2021-05-19

Created:	2021-05-19
By:	Emily Donohoe (edonohoe@roseville.ca.us)
Status:	Signed
Transaction ID:	CBJCHBCAABAABTsm7jTAmll7PQ9u178peUg2iTxHh3TE

"CB2 amendment First Amendment to D-B Construction Agreement PE" History

Document created by Emily Donohoe (edonohoe@roseville.ca.us)
2021-05-19 - 5:57:42 PM GMT- IP address: 136.245.4.245

Document emailed to Michelle Bertolino (mbertolino@roseville.ca.us) for signature
2021-05-19 - 6:01:35 PM GMT

Email viewed by Michelle Bertolino (mbertolino@roseville.ca.us)
2021-05-19 - 8:40:30 PM GMT- IP address: 136.245.4.245

Document e-signed by Michelle Bertolino (mbertolino@roseville.ca.us)
Signature Date: 2021-05-19 - 8:40:55 PM GMT - Time Source: server- IP address: 136.245.4.245

Agreement completed.
2021-05-19 - 8:40:55 PM GMT

ORDINANCE NO. 6372

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2020-21, is hereby amended as listed on the attached budget adjustment for the Electric Dispatch Center project.

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

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

PASSED AND ADOPTED by the Council of the City of Roseville, this _____ day of _____, 2021, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITLE: Chris Porter | FISCAL YEAR: 2020/2021

PREPARER NAME & TITLE: Chris Porter, Engineering Manager | COUNCIL DATE (if applicable): 6/2/2021

DEPARTMENT/DIVISION: Electric Engineering | ORDINANCE:

EXPENDITURES/EXPENSES/TRANSFERS OUT

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6001	6587	84701	400116	665,000	Increase the Electric Dispatch Center Project
			TOTAL	665,000	

REVENUES/TRANSFERS IN

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

	NET ADJUSTMENT	665,000

FUND BALANCE

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6001				(665,000)	Decrease available resources in the Electric Fund
			TOTAL	(665,000)	

Justification for Budget Adjustment:

This item requests a budget increase in the amount of $665,000 for the Electric Dispatch Center project. The renovated dispatch center will improve and modernize the functionality of the dispatch center to meet dispatching needs in the near-term and long-term future, taking advantage of current technologies in dispatch centers. As part of the final review and design of the project, additional work was determined to be necessary to include such items as the removal and replacement of larger HVAC units, building and rooftop structural supports, fire suppression improvements, asbestos abatement, ADA compliance and unforeseen electrical work.

REQUIRED APPROVALS:

Michelle Bertolino (May 10, 2021 13:24 PDT) — May 10, 2021

REQUESTING DEPARTMENT HEAD / DESIGNEE	DATE	BUDGET MANAGER / DESIGNEE	DATE
CHIEF FINANCIAL OFFICER / DESIGNEE	DATE	CITY MANAGER / DESIGNEE	DATE

BUDGET DEPARTMENT USE ONLY:

POSTED BY	DATE

Revised: June 24, 2019

5/10/20219:24 AM

COUNCIL COMMUNICATION

CC #: 1497
File #: 0900-04-02 & 0201-01

Title:	Oak Ridge Drive Bridge Replacement Project - Budget Adjustment
Contact:	Rjahja Canlas 916-746-1300 rcanlas@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.12.

RECOMMENDATION TO COUNCIL

Staff recommends Council adopt an ordinance to authorize a budget adjustment to increase both the expense and revenue budgets for the Oak Ridge Drive Bridge Replacement Project by $848,177.

BACKGROUND

The bridge on Oak Ridge Drive over Linda creek (just north of Rampart Drive) was determined by Caltrans to be functionally obsolete and hydraulically inadequate. The Oak Ridge Drive Bridge Replacement Project proposed to remove the bridge and construct a longer, standard two-lane bridge with shoulders and sidewalks on both sides of the road, funded by Federal Highway Bridge Program (HBP) funds.

Construction of the project began in June of 2020 and is expected to be complete by June of 2021.

In June of 2020, Council approved a budget adjustment that brought the total project budget to $6,576,823 and authorized change orders in an amount not to exceed 10% of the contract price. However, the budget adjustment did not include funding for the approved construction contingency because federal funding rules do not allow funding for contingency work to be obligated before the actual contingency work is completed..

Subsequently, Caltrans approved a total federal obligation for this project of $6,925,000 based upon updated cost estimates including soft costs.

However, this current federal obligation still does not include the construction contingency. Staff has requested the eligible additional obligation of HBP funds for construction contingency, to fully fund the project. Because change orders are participating costs that can be programmed into and paid for by the HBP once positively quantified, it is anticipated the amount will be programmed.

In the unlikely event the City is not awarded HBP funds for the construction change orders, staff will come back to Council with a recommendation for a budget adjustment using other eligible non-

General Fund resources to fund the contingency.

The recommended budget adjustment increases both the expenditure and revenue budgets by $848,177 to match the approved federal obligation, in addition to an anticipated construction contingency.

The cost breakdown for the project is as follows:

Preliminary Engineering (complete)	$ 775,000
Right of Way (complete)	151,057
Utility Relocation Costs (PG&E)	248,943
Construction	5,000,000
Construction Contingency	500,000
Construction Engineering	750,000
Total	**$7,425,000**

FISCAL IMPACT

The recommended budget adjustment increases the expenditure and revenue budgets by $848,177. The total project expenditure budget of $7,425,000 is funded by Federal Highway Bridge Program funds, with the exception of $50,000 of Roadway funds budgeted for potential non-participating project costs. No General Fund resources will be used for the project.

ENVIRONMENTAL REVIEW

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

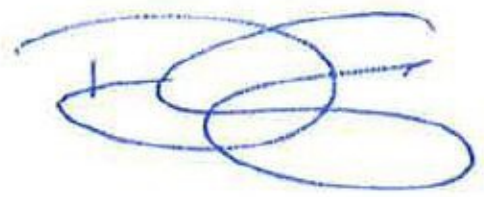
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world
Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Rjahja Canlas, Associate Engineer

Jason Shykowski, Public Works Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance 6369

Budget Adjustment

ORDINANCE NO. 6369

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2020-21, is hereby amended by transferring appropriations as listed on the attached budget adjustment for the Oak Ridge Drive Bridge Replacement Project.

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

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

PASSED AND ADOPTED by the Council of the City of Roseville, this _____ day of _____, 2021, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITLE: Rjahja Canlas, Associate Engineer
FISCAL YEAR: 2020-21
PREPARER NAME & TITLE: Rjahja Canlas, Associate Engineer
COUNCIL DATE (if applicable): 6/2/2021
DEPARTMENT/DIVISION: Public Works - Engineering
ORDINANCE:

EXPENDITURES/EXPENSES/TRANSFERS OUT

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
3201	6587	84001	400031	848,177	Increase project expense budget for construction
			TOTAL	848,177	

REVENUES/TRANSFERS IN

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
3201	4401	84001	400031	848,177	Federal Revenues Programmed
			TOTAL	848,177	

NET ADJUSTMENT	-	

FUND BALANCE

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

Justification for Budget Adjustment:

Staff recommends that the City Council approve an expenditure and revenue budget adjustment of $848,177 to complete the Oakridge Bridge Replacement Project (400031). This adjustment will increase the project expenditure budget to $6,624,426 and the revenue budget to $6,574,426. This funding for this adjustment is from the Federal Highway Bridge Program.

REQUIRED APPROVALS:

REQUESTING DEPARTMENT HEAD / DESIGNEE	DATE	BUDGET MANAGER / DESIGNEE	DATE
CHIEF FINANCIAL OFFICER / DESIGNEE	DATE	CITY MANAGER / DESIGNEE	DATE

BUDGET DEPARTMENT USE ONLY:

POSTED BY	DATE

Revised: June 24, 2019

5/10/20212:55 PM

COUNCIL COMMUNICATION

CC #: 1498
File #: 0800-02 & 0201-01

Title:	Environmental Utilities Fiscal Year 2020-21 Year-End Interfund Transfers - Budget Adjustment
Contact:	Janet Vargas 916-774-5557 jvargas@roseville.ca.us Teri Quinlan 916-746-1780 tquinlan@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.13.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt an ordinance to approve a budget adjustment to transfer resources between funds within the water, wastewater, and waste services utilities.

BACKGROUND

The water, wastewater, and waste services utilities would benefit from transferring resources among the funds within each utility prior to the end of FY2020-21. Transfers from each utility's operating fund to its rate stabilization and rehabilitation funds are recommended due to several years' worth of increasing fund balances including FY2019-20 and FY2020-21 water revenues coming in higher than budgeted and expenses of all utilities coming in lower than budgeted due to COVID-19. Rate stabilization funds will be used for rate mitigation in FY2021-22 and FY2022-23 and rehabilitation funds will be used for future projects. In addition, this budget adjustment includes a one-time transfer of the accumulated local connection fees balance of $6,876,614 from the Wastewater Rehabilitation Fund to the Wastewater Construction Fund. In the past, local wastewater connection fees were collected and accounted for in the Wastewater Rehabilitation Fund. In FY2020-21, the City began collecting these local connection fees in the more appropriate Wastewater Construction Fund.

The transfers are as follows:

Transfer out - Water Operations (Fund 6101)	(3,600,000)
Transfer in - Water Rate Stabilization (Fund 6110)	3,600,000
Transfer out - Water Operations (Fund 6101)	(10,000,000)
Transfer in - Water Rehabilitation (Fund 6130)	10,000,000
Transfer out - Wastewater Operations (Fund 6201)	(9,500,000)
Transfer in - Wastewater Rate Stabilization (Fund 6210)	9,500,000
Transfer out - Wastewater Operations (Fund 6201)	(1,700,000)
Transfer in - Wastewater Regional Rehabilitation (Fund 6231)	1,700,000

Transfer out - Waste Services Operations (Fund 6301)	(5,500,000)
Transfer in - Waste Services Rate Stabilization (Fund 6310)	5,500,000
Transfer out - Waste Services Operations (Fund 6301)	(2,000,000)
Transfer in - Waste Services Rehabilitation (Fund 6330)	2,000,000
Transfer out - Wastewater Rehabilitation (Fund 6230)	(6,876,614)
Transfer in - Wastewater Construction (Fund 6220)	6,876,614
Total	-

FISCAL IMPACT

This budget adjustment transfers out amounts equal to the transfers in within each utility. Thus, there is a net zero effect within each utility. The total of all transfers out for all three utilities is $39,176,614, which matches the total of transfers in.

The transfers will have the following impact on the involved funds:

Fund	Increase (decrease) to fund
Water Operations (Fund 6101)	(13,600,000)
Water Rate Stabilization (Fund 6110)	3,600,000
Water Rehabilitation (Fund 6130)	10,000,000
Wastewater Operations (Fund 6201)	(11,200,000)
Wastewater Rate Stabilization (Fund 6210)	9,500,000
Wastewater Regional Rehabilitation (Fund 6231)	1,700,000
Waste Services Operations (Fund 6301)	(7,500,000)
Waste Services Rate Stabilization (Fund 6310)	5,500,000
Waste Services Rehabilitation (Fund 6330)	2,000,000
Wastewater Rehabilitation (Fund 6230)	(6,876,614)
Wastewater Construction (Fund 6220)	6,876,614
Total	---

This budget adjustment has no fiscal impact on the General Fund.

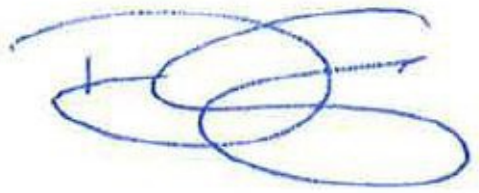
ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378. Approval of a budget adjustment for the Environmental Utilities FY2020-21 year-end interfund transfers meets the above criteria and is not subject to CEQA. No additional environmental review is required.

Respectfully Submitted,

Teri Quinlan, Environmental Utilities Business Analyst

Richard Plecker, Environmental Utilities Director



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance 6370

FY2021 Year-end Interfund Transfers Budget Adjustment

ORDINANCE NO. 6370

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2020-21, is hereby amended as listed on the attached budget adjustment for the Environmental Utilities Fiscal Year 2020-21 Year-End Interfund transfers.

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

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

PASSED AND ADOPTED by the Council of the City of Roseville, this _____ day of _____, 2021, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITLE: Janet Vargas, EU Business Administrator
FISCAL YEAR: 2021

PREPARER NAME & TITLE: Teri Quinlan, EU Business Analyst
COUNCIL DATE (if applicable): 6/2/2021

DEPARTMENT/DIVISION: EU/Technical Services
ORDINANCE:

EXPENDITURES/EXPENSES/TRANSFERS OUT

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

REVENUES/TRANSFERS IN

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

NET ADJUSTMENT	-	

FUND BALANCE

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

Justification for Budget Adjustment:

All EU utilities (Water, Wastewater, and Waste Services) would benefit from moving balances among their various funds prior to the end of FY2021. Transfers from each utility's operating fund to its rate stabilization and rehabilitation funds are due to estimated positive year-end results. The transfer from the Wastewater Rehabilitation Fund to the Wastewater Construction Fund of $6,876,614 is due to moving local connection fees that in the past were collected and tracked in the Wastewater Rehabilitation Fund to the more appropriate Wastewater Construction Fund. This is a one-time transfer as these development fees are now being received in the Wastewater Construction Fund. The total of all transfers out included in this budget adjustment is $39,176,614--the same as the amount being transferred in. There is thus a net zero effect within each utility.

REQUIRED APPROVALS:

Richard D. Pankey	5/5/21		
REQUESTING DEPARTMENT HEAD / DESIGNEE	DATE	BUDGET MANAGER / DESIGNEE	DATE
CHIEF FINANCIAL OFFICER / DESIGNEE	DATE	CITY MANAGER / DESIGNEE	DATE

BUDGET DEPARTMENT USE ONLY:

POSTED BY	DATE

Revised: June 24, 2019

Attachment to Budget Adjustment

EXPENDITURES/EXPENSES/TRANSFERS OUT

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6101	6801	10001	000000	3,600,000	Transfer out - Water Ops to Water Rate Stabilization 6110
6101	6801	10001	000000	10,000,000	Transfer out - Water Ops to Water Rehab 6130
6201	6801	10001	000000	9,500,000	Transfer out - WW Ops to WW Rate Stabilization 6210
6201	6801	10001	000000	1,700,000	Transfer out - WW Ops to WW Regional Rehab 6231
6301	6801	10001	000000	5,500,000	Transfer out - WS Ops to WS Rate Stabilization 6310
6301	6801	10001	000000	2,000,000	Transfer out - WS Ops to WS Rehbiliation 6330
6230	6801	10001	000000	6,876,614	Transfer out - WW Rehab to WW Construction 6220
			TOTAL	**39,176,614**	

REVENUES/TRANSFERS IN

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6110	4801	10001	000000	3,600,000	Transfer in - Water Rate Stabilization from Water Ops 6101
6130	4801	10001	000000	10,000,000	Transfer in - Water Rehab from Water Ops 6101
6210	4801	10001	000000	9,500,000	Transfer in - WW Rate Stabilization from WW Ops 6201
6231	4801	10001	000000	1,700,000	Transfer in - WW Regional Rehab from WW Ops 6201
6310	4801	10001	000000	5,500,000	Transfer in - WS Rate Stabilization from WS Ops 6301
6330	4801	10001	000000	2,000,000	Transfer in - WS Rehab from WS Ops 6301
6220	4801	10001	000000	6,876,614	Transfer in - WW Construction from WW Rehab 6230
			TOTAL	**39,176,614**	

NET ADJUSTMENT	**-**	

AVAILABLE RESOURCES

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
6101				(13,600,000)	Decrease available resources - Water Ops Fund
6110				3,600,000	Increase available resources - Water Rate Stabilization Fund
6130				10,000,000	Increase available resources - Water Rehab Fund
6201				(11,200,000)	Decrease available resources - WW Ops Fund
6210				9,500,000	Increase available resources - WW Rate Stabilization Fund
6231				1,700,000	Increase available resources - WW Regional Rehab Fund
6301				(7,500,000)	Decrease available resources - WS Ops Fund
6310				5,500,000	Increase available resources - WS Rate Stabilization Fund
6330				2,000,000	Increase available resources - WS Rehab Fund
6230				(6,876,614)	Decreases available resources - WW Rehab Fund
6220				6,876,614	Increase available resources - WW Construction Fund
			TOTAL	**-**	

COUNCIL COMMUNICATION

CC #: 1493
File #: 0707 & 0201-01

Title: Roseville Aquatics Complex Maintenance Fund - Budget Adjustment
Contact: Kathy Barsotti 916-774-5955 kbarsotti@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.14.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt an ordinance to approve a budget adjustment to increase the revenue budget and expense budget in the Roseville Aquatics Complex (RAC) Maintenance Fund.

BACKGROUND

In 1993, the City of Roseville and Roseville Joint Union High School District (RJUHSD) entered into a joint use agreement (JUA) to construct what is now known as the Roseville Aquatics Complex (the RAC), Mahany Tennis Courts and Softball Fields. In the agreement, RJUSHD agreed to contribute $1.265 million dollars towards construction of the competition pool and locker rooms, plus an additional $600,000 placed in a permanent restricted account to be applied toward costs associated with maintaining the facilities. In return, RJUHSD would use the RAC competition pool for Woodcreek High School's (WHS) physical education classes and competitive swim and water polo programs. The term of the agreement was to exist as long as the RAC was an aquatic facility.

Once the facility opened, interest earned from the restricted account was to be transferred annually to the Aquatics budget, to offset the RAC's maintenance costs including chemicals, utilities, equipment, maintenance staff and capital improvement projects. At that time, interest rates were such that the interest earned adequately covered the expense for RJUHSD's use. As time passed, interest rates decreased, while materials and services costs and employee wages and benefits increased, to the point that interest revenues no longer covered the costs for WHS's use of the RAC each year.

In July 2019, the City of Roseville and the RJUHSD entered into a new JUA with renegotiated terms to more fairly distribute the costs for use, and outlining new terms for RJUHSD's payment for use. In order to utilize funds from the RAC Maintenance Fund to cover these costs, per the JUA, these dollars must be in an unrestricted account.

The facility use fee payment portion of the agreement is outlined as follows.

Facility Use Fee Payment for Aquatic Facilities.

1. CITY shall first apply to the Facility Use Fees owed by DISTRICT for aquatics facilities use any interest earned during the previous fiscal year in the CITY Roseville Aquatics Complex Maintenance Fund, created with the $600,000 DISTRICT payment pursuant to section 4(B) of the Joint Use Agreement.

2. After all interest described in section C(1) has been applied to the Facility Use Fees owed by DISTRICT, DISTRICT shall in the first fiscal year of this Third Amendment pay a maximum of $20,000 toward any remaining Facility Use Fees due and owing. DISTRICT's maximum payment after application of interest shall increase by $10,000 per fiscal year and shall not exceed $100,000 unless otherwise agreed by DISTRICT.

3. After the interest described in section C(1) and applicable maximum payment described in C(2) have been applied to Facility Use Fees due and owing by DISTRICT in the applicable fiscal year, CITY shall then apply principal from the Roseville Aquatics Complex Maintenance Fund to any remaining Facility Use Fees due and owing by DISTRICT.

4. CITY shall provide the DISTRICT an annual accounting of the Roseville Aquatics Complex Maintenance Fund.

FISCAL IMPACT

The fiscal impact of this budget adjustment increases available resources in the RAC Maintenance Fund by $549,371 and in the General Fund by $50,629, by budgeting $600,000 of available revenue in the RAC Maintenance Fund and $50,629 of cost reimbursements from the RAC Maintenance Fund to the General Fund.

ENVIRONMENTAL REVIEW

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

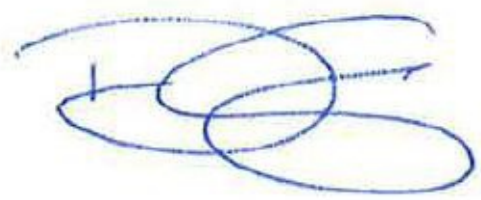
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world

Respectfully Submitted,

Kathy M. Barsotti, Parks, Recreation & Libraries Manager

Jill Geller, Parks, Recreation & Libraries Director



Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance 6368

RAC Maintenance Fund-Budget Adjustment

ORDINANCE NO. 6368

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AUTHORIZING CERTAIN AMENDMENTS TO THE FISCAL YEAR 2020-21 BUDGET AND DECLARING THIS ORDINANCE TO BE IMMEDIATELY EFFECTIVE AS AN APPROPRIATION MEASURE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. The City of Roseville Annual Budget, Fiscal Year 2020-21, is hereby amended by transferring appropriations as listed on the attached budget adjustment for the Roseville Aquatics Complex Maintenance Fund.

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

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

PASSED AND ADOPTED by the Council of the City of Roseville, this _____ day of _____, 2021, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

REQUEST FOR BUDGET ADJUSTMENT

REQUESTER NAME & TITLE:	Kathy Barsotti, Parks, Recreation & Libraries Manager	FISCAL YEAR:	FY2020-21
PREPARER NAME & TITLE:	Kathy Cullen, Administrative Analyst II	COUNCIL DATE (if applicable):	06/02/21
DEPARTMENT/DIVISION:	Parks, Recreation & Libraries/Aquatics	ORDINANCE:	

Expenditures/Expenses/Transfers Out

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
2551	5911	58260		30,633	Increase expenditure budget to reimburse the General Fund (aquatics center) for RAC maintenance costs portion of 2019 RJUHSD usage charges
1001	5912	58260		(30,633)	Increase reimbursed cost received budget in the General Fund for RAC maintenance costs portion of 2019 RJUHSD usage charges
2551	5911	58260		19,996	Increase expenditure budget to move interest in fund 2551 to the General Fund
1001	5912	58260		(19,996)	Increase reimbursed expenditure budget to move interest in fund 2551 to the General Fund
			TOTAL	-	

Revenues/Transfers In

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
2551	4780	58260		600,000	Increase revenue budget for RJUHSD shared RAC Maintenance costs as per joint use agreement
			TOTAL	600,000	

NET ADJUSTMENT	(600,000)	

Available Resources

ACCOUNT STRING				BUDGET ($)	DESCRIPTION
Fund	Account	Center	Project	Adjustment	
2551				549,371	Increase in available resources in the RAC Maintenance fund to be used for RJUHSD share of pool usage.
1001				50,629	Increase to General Fund available reosurces for RJUHSD share of pool usage, and interest transfer.
			TOTAL	600,000	

Justification for Budget Adjustment:

The Parks, Recreation and Libraries department is requesting a budget adjustment for the following: 1) Increase the revenue budget in the Roseville Aquatics Complex (RAC) Maintenance Fund by $600,000, from money held in a permanent restricted account to an unrestricted account; 2) increase the expense budget in the RAC Maintenance Fund by $19,996, from earned interest in the account, and set up the related expense budget offset in the Aquatics General Fund Cost Center for maintenance costs, as per the joint use agreement with Roseville Joint Union High School District (RJUHSD); and 3) increase the expense budget in the RAC Maintenance fund by $30,633 for funds to be applied in excess of the interest and RJUHSD's annual payment for calendar year 2019 pool maintenance costs, and set up the related expense budget offset in the Aquatics General Fund Cost Center, as per the joint use agreement with Roseville Joint Union High School District (RJUHSD). This budget adjustment increases available resources in the RAC Maintenance Fund by $549,371 and in the General Fund by $50,629.

Jill Gellen	4/28/21		
REQUESTING DEPARTMENT HEAD / DESIGNEE	DATE	BUDGET MANAGER / DESIGNEE	DATE
CHIEF FINANCIAL OFFICER / DESIGNEE	DATE	CITY MANAGER / DESIGNEE	DATE
BUDGET DEPARTMENT USE ONLY:			
POSTED BY	DATE		

COUNCIL COMMUNICATION

CC #: 1489
File #: 0709-02-01

Title:	HOUSING AUTHORITY - Quarterly Status Report
Contact:	Suzi Cook-Turner 916-774-5414 smcook-turner@roseville.ca.us Trisha Isom 916-746-1239 tisom@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.15.

RECOMMENDATION TO COUNCIL

The City Council, acting as the Roseville Housing Authority Board, is not required to take any action on this item. This quarterly report is for informational purposes only.

BACKGROUND

Pursuant to the bylaws of the Roseville Housing Authority (RHA), the City Council, acting as the Board of Directors for the Housing Authority, holds its quarterly meeting the first Wednesday of March, June, September, and December, or as soon as possible thereafter. Staff has prepared the following status report regarding lease-up activity for the Housing Choice Voucher (HCV) Program. The HCV Program provides income-qualified households in Roseville and Rocklin with rental assistance using funding from the US Department of Housing and Urban Development (HUD). This assistance is utilized at rental units that meet program specific housing standards, are owned by a willing landlord, and are within Roseville or Rocklin city limits. This rental assistance ensures that the household is able to afford to live in safe and decent housing.

The RHA is authorized to provide 735 households with HCV rental assistance. This total includes 75 vouchers allocated specifically for families on the waiting list with a head-of-household or spouse that are non-elderly and disabled (NED vouchers), 65 Veterans Affairs Supportive Housing (VASH) vouchers used with veteran households that come by referral from the Veterans Affairs (VA) Department, and 33 Mainstream vouchers that assist households who have a non-elderly adult person with a disability and are transitioning out of institutional and other segregated settings, or are currently homeless or at risk of becoming homeless. The RHA also administers the Family Self-Sufficiency Program (FSS), which is a component of the HCV Program. The FSS Program provides assistance to families who are working to become free of all public assistance. The RHA currently has 23 families enrolled in this worthwhile program.
Meta Housing, a developer of affordable housing, constructed two new complexes, Main Street Plaza and Roseville Apartments (aka Annex on Main) which contain 65 new affordable units in Old Town Roseville. The RHA committed 30 Project-Based vouchers to the 100% affordable housing project. Of the 30 vouchers, 1 is a regular voucher (applicants come from the HCV waiting list), 10 are regular vouchers layered with Mental Health Services Act funding, 3 of which must be

homeless (applicants come by Placer County HHS referral), and 19 are VASH vouchers (applicants come by VA referral). Project basing vouchers allows developers to secure necessary funding resulting in project feasibility and allows HCV participants increased housing opportunities not previously available. The management company began leasing the apartments in December 2020 and as of April 2021, the complex is at full lease up.

For RHA to be in compliance with HUD's regulations, the lease-up rate for a calendar year cannot exceed 100% of its allocation of vouchers (per voucher type), and each Housing Authority is required to be at least 95% leased up for its voucher allocation or utilizing at least 95% of its annual budget authority. Agencies leasing up 98% or more of its allocated vouchers can reach high-performing status. The term "lease-up" refers to the number of families receiving rental assistance from the RHA. Below is a summary chart of voucher lease-up. The RHA continues to meet the HUD program requirement for high-performing status through 100% expenditure of its annual budget allocation for the program. Lease-up has stayed consistent during the first quarter; and although it appears the VASH utilization is low, this is due to the 25 new vouchers for veterans that RHA received as of January 1, 2021. Staff is currently working with the VA to fully lease all new vouchers.

This table provides a monthly summary of the RHA's voucher programs for first quarter of calendar year 2021:

	Actual Lease-up of Regular	**HUD Regular (562)**	**Actual Lease-up of Non-Elderly Disabled**	**HUD Non-Elderly Disabled (75)**	**Actual Lease-up of VASH**	**HUD VASH (65)**	**Actual Lease-up of Main stream**	**HUD Main stream (33)**
January 2021	499	562	76	75	30	65	28	33
February 2021	499	562	76	75	29	65	29	33
March 2021	499	562	75	75	45	65	28	33
YTD Total	**1497**	**1686**	**227**	**225**	**104**	**195**	**85**	**99**
YTD % Leased	**88.8%**		**100.9%**		**53.3%**		**85.9%**	

Senate Bill 329 went into effect January 1, 2020, which prohibited owners and managers of rental units in California from rejecting a renter's application simply due to utilizing a Housing Choice Voucher. The RHA has welcomed many new rental properties and owners to the HCV program who previously did not choose to participate in the program. This has greatly expanded housing opportunities for HCV participants statewide. The RHA is grateful for its established and new community partners and continues efforts to build owner relationships and increase additional housing inventory.

FISCAL IMPACT

The HCV Program is federally-funded through the US Department of Housing and Urban

Development (HUD). Through this HUD-funded program, the RHA provides an important social service locally to ensure safe and affordable housing for residents, which is an essential component of the foundation of the community's economic stability. Through monthly rental assistance payments, the HCV Program invests $6.2 million into the local economy annually. The Housing Authority quarterly report does not create any additional cost to the City's General Fund.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378.

The Roseville Housing Authority Quarterly Report meets the above criteria and is not subject to CEQA. No additional environmental review is required.

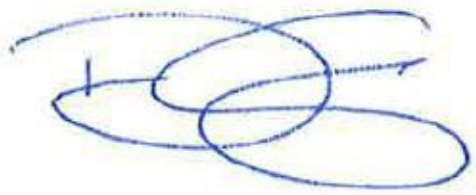
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal C - Maintain a safe and healthy community
Goal D - Enhance economic vitality

Respectfully Submitted,

Suzi Cook-Turner, Housing Supervisor

Laura Matteoli, Director Economic Development



_____
Dominick Casey, City Manager

COUNCIL COMMUNICATION

CC #: 1513
File #: 0102-10

Title: Resolution - Dale Olson
Contact: Blair Hutchison 916-774-5266 bmhutchison@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 7.16.

RECOMMENDATION TO COUNCIL

Commend Dale Olson for his 15 years of outstanding service and dedication to the City of Roseville, congratulated for his accomplishments and wished a long, healthy, and enjoyable retirement.

BACKGROUND

Not applicable.

FISCAL IMPACT

Not applicable.

ENVIRONMENTAL REVIEW

Not applicable.

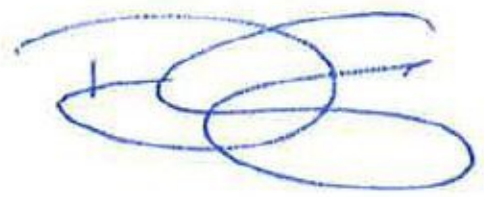
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Not applicable.

Respectfully Submitted,

Blair Hutchison, Deputy City Clerk

Sonia Orozco, City Clerk



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution

Resolution

WHEREAS, Dale Olson began his distinguished career with the City of Roseville in August of 2006 as a Senior Engineer in the Engineering Division of Environmental Utilities (EU); and

WHEREAS, Dale was responsible for evaluation of the distribution, collection, and recycled water systems in the Wastewater Division, and took on the supervisory role for the Department's Replacement Planning Model; and

WHEREAS, Dale received the Pride of Roseville Award for the Outstanding Work Performance Team category for the Riverside Streetscape and Infrastructure Improvement project; and

WHEREAS, Dale transferred to the Wastewater Administrative Division in January 2011, where he managed the influent pump station project which was completed on schedule and within budget; and

WHEREAS, Dale received his Civil Engineering License in June, 2012; and

WHEREAS, Dale was transferred to EU Engineering in July, 2012, working with specific plans and land development, infrastructure reimbursement issues, and projects including West Park Phase 4, Fiddyment Ranch SPA 3, and developed solid working relationships with the land development community; and

WHEREAS, Dale received a promotion as a Principal Engineer in the EU Engineering Division in June, 2014, in which he led the EU Technical Services Team (land development, automated mapping and GIS, projects, and division budgets) and was instrumental in re-engaging discussions between EU and Development Services; and

WHEREAS, Dale led the transition of the land development team to the Civic Center and ensured its smooth transition; and

WHEREAS, Dale managed and led the Enterprise Asset Management Program, transitioning tasks such as EU and Electric metering, improvements to the IFAS integration, and data loading for substations to Maximo; and

WHEREAS, Dale served as Interim Director during a period of time increasing his level of knowledge and provided outstanding leadership; and

WHEREAS, Dale received a promotion to Assistant Environmental Utilities Director on May 12, 2018, where his team grew to include Business Services and, eventually, Safety; and

WHEREAS, Dale provided monthly updates at numerous Public Utilities Meetings, presented during City Council meetings, and developed professional friendly relationships with all Commissioners and Councilmembers; and

WHEREAS, Dale provided outstanding leadership and professionalism, served as a mentor to his staff, and exceeded in displaying integrity during his tenure with the City; and

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF ROSEVILLE, CALIFORNIA, that **DALE OLSON** be commended for his 15 years of outstanding service and dedication to the City of Roseville, congratulated for his accomplishments and wished a long, healthy, and enjoyable retirement.

SIGNED AND APPROVED this 2nd day of June, 2021.

CITY OF ROSEVILLE
INCORPORATED APRIL 10, 1909

KRISTA BERNASCONI, MAYOR

COUNCIL COMMUNICATION

CC #: 1499
File #: 0800-03 & 0215-07

Title: Roseville Electric Utility Hydroelectric Rate Adjustment
Contact: Eric Campbell 916-774-5626 ecampbell@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 8.1.

RECOMMENDATION TO COUNCIL

Staff recommends that City Council adopt an urgency ordinance to extend the FY2020-21 hydroelectric adjustment through August 31, 2021 and suspend implementation of the FY2021-22 hydroelectric adjustment until September 1, 2021.

BACKGROUND

Roseville adopted the annual hydroelectric adjustment in 2009 to partially mitigate the impact of variations in hydroelectric resources on energy supply costs. As stated in Roseville Municipal Code Section 14.24.052, "a hydroelectric adjustment will be implemented for all residential and general service electric billings. The hydroelectric adjustment is calculated annually, effective July 1st through June 30th of each year, and is based on the cost impacts associated with varying precipitation levels and related hydroelectric energy supplies."

The FY2020-21 hydroelectric rate adjustment would have been effective July 1, 2020 to June 30, 2021. Extending the FY2020-21 hydroelectric adjustment to August 31, 2021, combined with suspending the FY2021-22 hydroelectric adjustment on customer billings from July 1, 2021 to August 31, 2021 will lessen the impact of electricity bills for customers through the typically higher summer bill months.

Some utility customers are facing unprecedented economic hardships brought forth by the pandemic emergency. This rate action is consistent with the electric utility's efforts to assist customers during these challenging times. Roseville Electric Utility continues to work closely with all customers to discuss payment options, available discounts, and other programs to help address electricity bills.

FISCAL IMPACT

The result of this recommended rate action reduces electric utility revenues by approximately $600,000 in FY2021-22.

ENVIRONMENTAL REVIEW

This project is statutorily exempt from CEQA review as defined in Section 15273 of the State CEQA Guidelines, which states CEQA does not apply to the establishment, modification, structuring, restructuring or approval of rates, tolls, fares, or charges by public agencies which the public agency finds are for the purpose of: (1) Meeting operating expenses, including employee wage rates and fringe benefits, (2) Purchasing or leasing supplies, equipment, or materials, (3) Meeting financial reserve needs and requirements, (4) Obtaining funds for capital projects, necessary to maintain service within existing service areas, or (5) Obtaining funds necessary to maintain such intra-city transfers as are authorized by city charter.

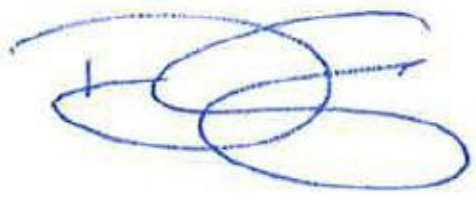
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world

Respectfully Submitted,

Eric Campbell, Electric Utility Finance Administrator

Michelle Bertolino, Electric Utility Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Ordinance 6371

ORDINANCE NO. 6371

ORDINANCE OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE TEMPORARILY SUSPENDING IMPLEMENTATION OF SECTION 14.24.052 OF CHAPTER 14.24 OF TITLE 14 OF THE ROSEVILLE MUNICIPAL CODE REGARDING THE HYDROELECTRIC ADJUSTMENT AND DECLARING THIS ORDINANCE TO BE EFFECTIVE JUNE 2, 2021 AS AN URGENCY ORDINANCE

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. On March 4, 2020, Governor Gavin Newsom ("Governor") proclaimed a State of Emergency in California as a result of the COVID-19 pandemic. A "Proclamation of the Existence of a Local Emergency and Authorization for the Director of Emergency Services/City Manager to Undertake Emergency Measures on Behalf of the City of Roseville" (hereinafter "Proclamation") was approved by the City Council of the City of Roseville at a special meeting on March 17, 2020 proclaiming a "local emergency". On March 19, 2020, the Governor issued Executive Order N-33-20 ordering all residents of California to stay at home ("Directive"), unless in the category of essential services.

SECTION 2. The City Council of the City of Roseville finds and declares that due to the current COVID-19 State of Emergency, Proclamation, and Directive, customers are facing unprecedented economic hardships, unemployment rates have greatly increased, and multiple utility payment assistance programs have been offered by the City to assist customers with discounts, credits, and payment plan options for utility bills.

SECTION 3. In 2009, the City of Roseville adopted the annual hydroelectric adjustment in Chapter 14.24 of Title 14 of the Roseville Municipal Code to partially mitigate the impact of variations in hydroelectric resources on energy supply costs. The Fiscal Year 2022 hydroelectric rate adjustment would be effective from July 1, 2021 to June 30, 2022. The City of Roseville desires to extend the Fiscal Year 2021 hydroelectric adjustment through August 31, 2021 and suspend implementation of the Fiscal Year 2022 hydroelectric adjustment until September 1, 2021 in an effort to lessen the financial impact on customers' utility bills through the typically higher summer bill months.

Therefore, notwithstanding the provisions of Section 14.24.052 of Chapter 14.24 of Title 14 of the Roseville Municipal Code to the contrary, effective on billings from July 1, 2020 to August 31, 2021, the Fiscal Year 2021 hydroelectric adjustment will continue and the Fiscal Year 2022 a hydroelectric adjustment will not be implemented until September 1, 2021.

SECTION 4. This Ordinance is enacted by the City Council as an interim urgency ordinance and shall remain in effect from the date of adoption until August 31, 2021, after which time it shall expire and shall be of no further force or effect.

SECTION 5. This Ordinance is hereby declared to be an urgency measure, immediately necessary for the public peace, health and safety and shall take effect June 2, 2021. A statement of urgency is as follows:

The City Council of the City of Roseville finds and declares that the current COVID-19 State of Emergency, Proclamation, and Directive are causing unprecedented economic hardships to City utility customers and extension of the Fiscal Year 2021 hydroelectric adjustment through August 31, 2021 and suspended implementation of the Fiscal Year 2022 hydroelectric adjustment until September 1, 2021 is essential for the orderly and necessary continuance of operations of the City.

SECTION 6. The City Clerk is hereby authorized and directed to post a true copy of the foregoing ordinance in each of three (3) conspicuous locations in the City and shall immediately after such posting enter in the Ordinance Book under the record of the ordinance a certificate under her hand stating the time and place of said publication by posting.

PASSED AND ADOPTED by the Council of the City of Roseville this_____day of _____, 20___, by the following vote on roll call:

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

COUNCIL COMMUNICATION

CC #: 1505
File #: 0324

Title:	Roseville Municipal Code Amendment to Electric Rate Assistance Program
Contact:	Eric Campbell 916-774-5626 ecampbell@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 8.2.

RECOMMENDATION TO COUNCIL

Staff recommends City Council adopt for first reading an ordinance changing the income qualification level for Roseville Electric Utility's low-income rate reduction program, the Electric Rate Assistance Program.

BACKGROUND

Roseville Electric Utility offers a range of programs to help customers manage their electricity costs, including offering low-income rate reduction assistance (Roseville Municipal Code, Section 14.24.079) to qualified residential customers through its Electric Rate Assistance Program (ERAP). The program provides eligible customers with a 15 percent discount off base electric rates for up to two years. Under the program's current income qualification level, it is estimated that 8,000 residential customers are eligible for participation and there are approximately 1,400 customers enrolled in the program. ERAP is supported through the collection of mandated public benefits funds, which also support energy efficiency, research and development, demand-side management, and other customer programs.

The current income qualification level for ERAP is defined as 50 percent of median income or "very-low income" for Placer County as specified by the U.S. Department of Housing and Urban Development. In an effort to provide assistance to additional residential customers, Roseville Electric Utility proposes changing the income qualification level to 200% of the Federal Poverty Level, as issued by the Department of Health and Human Services. This recommended change is estimated to increase the number eligible customers by approximately 50% or 4,000 customers, to a total of 12,000 eligible customers.

This recommended change to the ERAP income qualification level is consistent with Roseville Electric Utility's other program efforts to assist customers during these challenging times. The utility is continuing to work closely with customers to discuss bill payment options, available discounts, and other programs to help address electricity costs.

FISCAL IMPACT

The estimated annual fiscal impact of the change in the income qualification level is $100,000. Funding is available from public benefits funds and is included in the proposed FY2021-22 Electric Budget.

ENVIRONMENTAL REVIEW

The California Environmental Quality Act (CEQA) only applies to projects which have the potential to cause a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA. (CEQA Guidelines §15061(b) (3)).

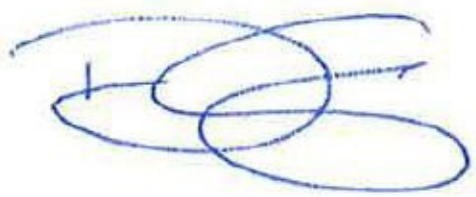
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal B - Support community engagement and advocacy

Respectfully Submitted,

Eric Campbell, Electric Utility Finance Administrator

Michelle Bertolino, Electric Utility Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

RMC 14.24.079

ORDINANCE NO. ____

ORDINANCE OF THE COUNCIL OF THE CITY OF ROSEVILLE AMENDING SECTION 14.24.079 OF CHAPTER 14.24 OF TITLE 14 OF THE ROSEVILLE MUNICIPAL CODE REGARDING LOW INCOME RATE REDUCTION

THE CITY OF ROSEVILLE ORDAINS:

SECTION 1. Section 14.24.079 of Chapter 14.24 of Title 14 of the Roseville Municipal Code is hereby amended to read as follows:

14.24.079 Low-income rate reduction.

A. Effective July 1, 1998, any household with a total income no greater than ~~that specified by the U.S. Department of Housing and Urban Development as "Very Low Income"~~ 200% of the Federal Poverty Level (FPL) issued by the Department of Health and Human Services (HHS) may apply for a 15 percent rate reduction of all charges in the standard residential rate. Applications for reduced rates shall be on forms supplied by the city. All information required to be given on such forms shall be supplied by the applicant on behalf of the household under penalty of perjury.

B. Reduced rates shall be granted to qualifying household which file applications with the director of finance. A change of address terminates the special rate provided in this

section, but a new application at a new address may be made and the reduced rate shall be allowed, if the requirements set out in this section are satisfied.

C. For the purposes of this section, a "qualifying household" is defined as any household with a verifiable gross household income no greater than ~~that specified by the U.S. Department of Housing and Urban Development as "Very Low Income" for Placer County~~ 200% of the Federal Poverty Level (FPL) issued by the Department of Health and Human Services (HHS).~~.~~

D. This rate reduction replaces the senior citizen rate reduction, Municipal Code Section 14.24.075, for new applicants. Current senior citizen rate reduction participants may choose to remain on the existing senior reduced rate or apply for the low-income rate reduction.

E. No household may participate in more than one city electric rate reduction program concurrently.

SECTION 2. This ordinance shall be effective at the expiration of thirty (30) days from the date of adoption.

SECTION 3. The City Clerk is hereby directed to cause this ordinance to be published in full at least once within fourteen (14) days after it is adopted in a newspaper of general circulation in the City, or shall within fourteen (14) days after its adoption cause this ordinance to be posted in full in at least three (3) public places in the City and enter in the Ordinance Book a certificate stating the time and place of said publication by posting.

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

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____

MAYOR

ATTEST:

_____

City Clerk

COUNCIL COMMUNICATION

CC #: 1495
File #: 0300

Title: The American Rescue Plan Act of 2021 - Update
Contact: Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 9.1.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council receive an update on the Coronavirus State and Local Fiscal Recovery Funds included in the American Rescue Plan Act of 2021.

BACKGROUND

On March 11, 2021, President Biden signed the American Rescue Plan Act of 2021 into law. The $1.9 trillion law is intended to combat the COVID-19 pandemic, including the public health and economic impacts. This presentation will provide an overview of the Coronavirus State and Local Fiscal Recovery Funds provided in the Act and the benefits it will provide for the City of Roseville.

FISCAL IMPACT

Not applicable

ENVIRONMENTAL REVIEW

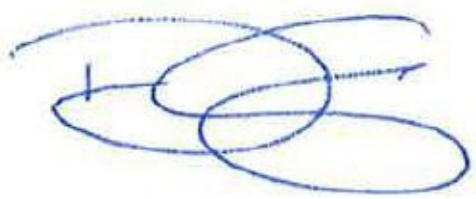
The California Environmental Quality Act (CEQA) does not apply to activities that will not result in a direct or reasonably foreseeable indirect physical change in the environment, or is otherwise not considered a project as defined by CEQA Statute §21065 and CEQA State Guidelines §15060(c)(3) and §15378.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

CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world

Respectfully Submitted,

Dennis Kauffman, Assistant City Manager/Chief Financial Officer



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Dominick Casey, City Manager

COUNCIL COMMUNICATION

CC #: 1500
File #: 0103-34-02

Title:	FY2021-22 Grants Advisory Commission Funding Recommendations
Contact:	Trisha Isom 916-746-1239 tisom@roseville.ca.us Laura Matteoli 916-774-5284 lmatteoli@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 9.2.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council adopt the Grants Advisory Commission recommendations to fund twenty-one (21) grant applications in the amount of $357,700 from the Citizens Benefit Fund and $1,634 from the Roseville Employees Annual Charitable Hearts Fund.

BACKGROUND

The Grants Advisory Commission (GAC) has $359,334 in Citizens Benefit Fund (CBF) and Roseville Employees Annual Charitable Hearts (REACH) funding for FY2021-22. The available CBF funds total $357,700 and must be used by organizations for programs and services benefiting Roseville residents. The REACH funds total $1,634 and may be used for programs and services benefiting both Roseville and Placer County residents.

The FY2021-22 funding cycle opened in ZoomGrants on December 7, 2020. The GAC conducted a televised applicant workshop on January 12, 2021 and applications were due by February 8, 2021. Non-profit organizations and private schools were eligible to apply for grant funds with the limit of one non-profit organization per school. Each organization is limited to one application; but in an effort for local community funds to have a greater impact through fewer, large awards there are no limits to the funds requested. Due to technical issues with ZoomGrants, the application deadline was extended through midnight on February 10, 2021 to allow applicants extra time to submit their applications.

A total of twenty-nine (29) grant applications were submitted requesting $649,240 in funds. Staff reviewed each application for eligibility and completeness and all submitted applications were approved. The Funding Workshop was held by the GAC on April 13, 2021 to make funding recommendations based on similar scoring criteria in previous years. This was the Commission's first year implementing Koné Consulting's Community Needs Analysis recommendations. City Council approved new Grant Funding Priorities this past year that also reflected the Community Needs Analysis completed in 2020. The new GAC Funding Priorities are:
- Small requests of up to $10,000 for new programs or operations which have demonstrated effectiveness in meeting community needs;

- Strategic, one-time grants for innovative programs, capital improvements or new initiatives; and
- Operational/Mission support grants for programs that address a community need and have demonstrated effectiveness.

The Commission scored each application on a 100 point scale and used their scores to determine the rank of the applications in each priority group. Using the rank instead of the application score helped remove some of the perceived bias that can occur regardless of how "hard" or "easy" an individual commissioner scores. The GAC recommends funding twenty-one of the twenty-nine applications submitted.

In the Small Requests category, the Commission agreed to fund the requested amount for the top 4 ranked applications. In the Strategic One-time Grants category, the Commission agreed to fund the requested amount for the top 2 ranked applications. For the applications in the Operational/Mission support category, it was decided to fund the requested amount for the top 5 ranked applications and fund the applications ranked 6-15 at the average proposed funding amount, plus equal amounts of the remaining funding. The GAC final funding recommendations are included as Attachment 1.

The recommended applications represent all 5 social determinants of health and include a wide variety of programs and services to serve populations throughout the community, including youth, families, and seniors. To date, the CBF and REACH funds have awarded a combined $16.9 million to support non-profits within our community. Staff recommends that the City Council approve the funding recommendations. The grant awards will be distributed to the grantees at the July 13, 2021 GAC meeting.

FISCAL IMPACT

The Citizens Benefit Fund was originally funded with proceeds from the sale of the Roseville Hospital. Annual funding for these awards comes from a portion of the interest earned on the fund balance and equaled $357,700 this year. The REACH funds are comprised of City of Roseville employee contributions, which this year totaled $1,634. The combined awards, totaling $359,334, have been included in the proposed FY2021-22 budget. Funding these grants has no fiscal impact to the General Fund.

ENVIRONMENTAL REVIEW

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

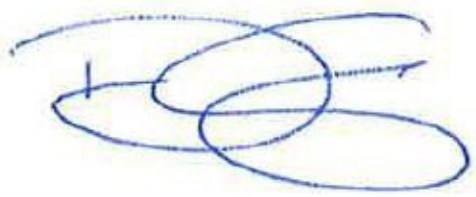
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal C - Maintain a safe and healthy community
Goal E - Deliver exceptional city services

Respectfully Submitted,

Trisha Isom, Housing Manager

Laura Matteoli, Economic Development Director



_____
Dominick Casey, City Manager

ATTACHMENTS:

Description

Attachment 1 - FY2021-22 GAC Funding Recommendations

Rank	Organization	Project/Program	Amount Requested	Funding Recommended
Priority Group: Strategic One-Time Grants				
1	Blue Line Arts	Arts Center Refurbishment	$12,627	$12,627
2	Placer Food Bank	COVID-19 Disaster Hunger Relief	$37,954	$37,954
3	My Mother's Voice	MMV's Little Store, La Tienda Pequeña	$15,000	$0
Priority Group: Small Grants				
1	The Petal Connection	"Grow a Row" for The Petal Connection	$10,000	$10,000
2	Placer Independent Resource Services	PIRS-Roseville Assistive Technology Project	$1,000	$1,000
3	Defending the Cause Regional Alliance, Inc.	Establishing a Local Office/Training Location	$9,000	$9,000
4	Roseville Historical Society	Museum Virtual Education Program	$5,000	$5,000
5	Roseville Alano Club Inc.	Roseville Alano Club Kitchen Front Cabinets	$9,750	$0
6	United Cerebral Palsy Association of Greater Sac	Give Parents A Much Needed Break	$10,000	$0
Priority Group: Operational/Mission Support				
1	Tommy Apostolos Fund	Tommy Apostolos Shopping Day	$14,000	$14,000
2	Stand Up Placer, Inc.	Roseville Embedded Advocate Response Program	$30,000	$30,000
3	Wellness Within Cancer Support Services	Wellness Within Improving Impacts of COVID19 & Cancer	$23,269	$23,269
4	A Touch of Understanding, Inc. (ATOU)	A Touch of Understanding Disability Awareness Programs	$20,000	$20,000
5	Lighthouse Counseling and Family Resource Center	Aces in the Age of COVID	$25,000	$25,000
6	Seniors First	Meals On Wheels (MOW)	$30,000	$22,622
7	Placer County Law Enforcement Chaplaincy	Organizational/Mission Support	$15,000	$12,077
8	Sierra College Foundation	Care Pack Project	$21,500	$16,292
9	Keaton's Child Cancer Alliance	Family Navigator Strategic Program	$30,000	$16,363
10	Saint Vincent de Paul Society	Food Locker Program	$30,000	$20,792
11	AMI Housing, Inc.	Housing & Supportive Services	$35,000	$24,071
12	Placer Veterans Stand Down, Inc.	Placer Veterans Stand Down, Inc.	$10,000	$9,358
13	Campus Life Connection	Roseville Thriving Youth	$12,000	$11,934
14	Child Advocates of Placer County	Prosper Placer/Family Mentors	$15,000	$10,363
15	The Gathering Inn	Homeless Emergency Shelter & Supportive Services	$75,000	$27,613
16	Assistance League® of Greater Placer	OSB School Clothing and Shoes	$30,000	$0
17	Boys & Girls Club of Placer County	Boys & Girls Club of Placer County Roseville Site	$35,000	$0
18	Placer SPCA	SOS Program	$25,000	$0
19	KidsFirst	COVID-19 Community Wellness Support	$48,140	$0
20	Roseville City School District Foundation	Partners in Education - Extending and Enriching the Classrooms	$15,000	$0

COUNCIL COMMUNICATION

CC #: 1510
File #: 0206-03

Title:	Community Facilities Districts - Adoption of Updated Schedule of Maintenance Costs and Charges for Maintenance Community Facilities Districts
Contact:	Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 10.1.

RECOMMENDATION TO COUNCIL

Staff recommends the City Council approve the resolution adopting the Schedule of Maintenance Costs and Charges for Maintenance Community Facilities Districts effective July 1, 2021 through June 30, 2022.

BACKGROUND

From time to time the City authorizes the formation of a Community Facilities District (CFD) under the Mello-Roos Community Facilities Act of 1982 (Act) to be used to finance the maintenance and operation of certain services authorized under the Act.

Though not all used by every CFD, nor to the same level of service, the following broad categories of ongoing maintenance services are provided by the City to CFDs throughout the community:

- Park maintenance
- Preserve and open space maintenance
- Streetscape maintenance
- Stormwater management

In an effort to support a more streamlined process for negotiating CFD conditions, improved cost recovery, and equity between districts, on March 20, 2019 the City adopted Resolution No. 19-79, Adopting a Schedule of Maintenance Costs and Charges for Community Facilities Districts. The schedule was most recently updated effective July 1, 2020 to incorporate annual inflationary adjustments to the various maintenance costs and charges identified in the schedule based on the change in the all-urban Consumer Price Index (CPI) for the San Francisco-Oakland-Hayward area from October to October of the immediately preceding year.

The Schedule of Maintenance Costs and Charges for CFDs is established by the City

Council via Resolution. This item and staff's recommendations are intended to be considered upon completion of a public hearing. The public hearing provides all interested parties with an opportunity to comment or request clarification regarding the proposed Schedule of Maintenance Costs and Charges for CFDs.

Staff has recently completed an updated evaluation of the costs of providing many of the commonly required maintenance and operations services and activities provided within a CFD and recommends adopting the updated schedule of maintenance costs and charges for community facilities districts, effective July 1, 2021. Adoption of the uniform schedule of costs and charges does not preclude the City from recovering other CFD related service and maintenance costs, authorized by the Act, that are identified and established as part of the process of forming each CFD.

Implementation of this schedule of costs and charges is subject to formation of new districts to which the schedule would apply, but will not affect previously established districts or districts that have initiated proceedings, as of the date of adoption of the resolution, to form a CFD to finance services authorized by the Act.

In absence of a uniform schedule of costs and charges for maintenance services provided to CFDs, the individual interests representing each entity in the planning stages are inadvertently given opportunity to negotiate applied costs. This overly burdens City resources, subjects CFDs to divergent charges from one another, and potentially compromises the City's intended recovery of the full cost of service, in line with its policies and practices for other services of individual cause or benefit.

No new services are proposed, instead the schedule has been updated to reflect the City's current cost of providing maintenance related services for CFDs.

The requested update aligns with the City's published "Goals and Policies Concerning Use of the Mello-Roos Community Facilities Act of 1982", (effective March 20, 2019). The goals and policies state, "The purpose of the services/maintenance District is to fund the ongoing costs of parks and open space, public landscaping…and maintenance not funded by other sources; and/or to pay for any unfunded ongoing City maintenance or service costs associated with a development project in the City, all in accordance with the Mello-Roos Act and the formation documents for each particular District."

The Schedule of Maintenance Costs and Charges for CFDs is reviewed annually. Periodically, a full cost analysis is performed. In years between studies, staff recommends the City Council authorize the Chief Financial Officer to make adjustments to the schedule of costs and charges based on the CPI change for the San Francisco-Oakland-Hayward area from October to October of the immediately preceding year. If the CPI does not change or goes down, no change shall be made to the schedule for that year unless an adjustment is made to targeted cost recovery levels or cost study findings indicate that an adjustment is appropriate. This is the City's current practice and no change to this practice is recommended.

FISCAL IMPACT

Implementation of this schedule of costs and charges is subject to formation of new districts to

which the schedule would apply; therefore, no fiscal impact is estimated at this time. However, it can be stated that the proposed Schedule of Maintenance Costs and Charges for Maintenance CFDs is intended to target full costs recovery in a fair and reasonable manner for all future maintenance CFDs once implemented.

The fees currently in place are sufficient to recover approximately 96% of the City's service district maintenance costs. The adjusted fees are intended to recover 100% of the maintenance costs.

Fiscal impact will be dependent on the number of future districts formed and the array of maintenance activities required for each district. For illustrative purposes, for every ten (10) acres of parks/streetscape to be maintained for a new service district, adjusted fees would recover an additional $590 per acre, per year. Alternatively, this could be expressed as additional revenue of $5,900 per 10 acres, per year to offset the costs of parks/streetscape maintenance. Without recovery of these costs from the service districts, maintenance costs will need to be reduced (i.e., service level reduction) or funded from another City revenue source, typically the City's General Fund.

It is important to note that while establishing a universal schedule of costs and charges might provide a fiscal impact in the form of additional revenue, the revenue is not intended to be used to fund new services, rather the revenue is intended to offset the costs of providing existing services that are recoverable from the schedule. Consequently, while charges may rise annually, typically labor costs (the primary driver of service costs) also rise annually. Recalibration of the schedule of costs and charges simply provides an offset of existing expenditures/needs rather than a source of funding for expanded service levels.

ENVIRONMENTAL REVIEW

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

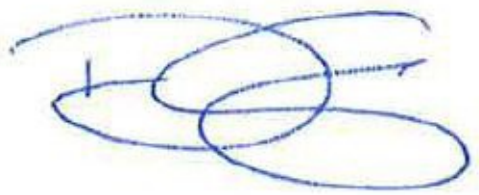
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world

Respectfully Submitted,

Jeannine Thrash, Management Analyst II

Dennis Kauffman, Assistant City Manager/Chief Financial Officer



Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-248

Annual Maintenance Costs for Maintenance CFDs

Public Hearing Notice

RESOLUTION NO. 21-248

ADOPTING A SCHEDULE OF MAINTENANCE COSTS AND CHARGES FOR COMMUNITY FACILITIES DISTRICTS

WHEREAS, from time to time the City authorizes the formation of a Community Facilities District (CFD) under the Mello-Roos Community Facilities Act of 1982 (Act) to be used to finance maintenance and operation of certain services authorized under the Act; and

WHEREAS, the City can uniformly identify the costs of providing many of the commonly required maintenance and operations services and activities provided within a CFD; and

WHEREAS, in an effort to support a more streamlined process for negotiating CFD conditions, improved cost recovery, and equity between districts, on March 20, 2019 the City adopted Resolution No. 19-79, Adopting a Schedule of Maintenance Costs and Charges for Community Facilities Districts; and

WHEREAS, the schedule was most recently updated effective July 1, 2020 to incorporate annual inflationary adjustments to the various maintenance costs and charges identified in the schedule based on the change in the all-urban Consumer Price Index (CPI) for the San Francisco-Oakland-Hayward area from October to October of the immediately preceding year; and

WHEREAS, staff has recently completed an updated evaluation of the costs of providing many of the commonly required maintenance and operations services and activities provided within a CFD; and

WHEREAS, staff recommends adopting the updated schedule of maintenance costs and charges for community facilities districts, effective July 1, 2021, attached hereto as Exhibit "A;" and

WHEREAS, adoption of the uniform schedule of costs for certain services and activities does not preclude the City from recovering other CFD related service and maintenance costs, authorized by the Act, that are identified and established as part of the process of forming each CFD; and

WHEREAS, implementation of this schedule of costs and charges is subject to formation of new districts to which the schedule would apply, but will not affect previously established districts or districts that have initiated proceedings, as of the date of adoption of the resolution, to form a CFD to finance services authorized by the Act; and

WHEREAS, staff further recommends authorizing the Chief Financial Officer to make automatic annual inflationary adjustments for the various maintenance costs and charges identified in the schedule based on all-urban Consumer Price Index (CPI) for the San Francisco-Oakland-Hayward area; and

WHEREAS, inflationary adjustments will be based on the CPI change from October to October of the immediately preceding year; and

WHEREAS, if the CPI does not change or goes down, no change shall be made to the schedule for that year unless an adjustment is made to targeted cost recovery levels or cost study findings indicate that an adjustment is appropriate; and

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Roseville that said Schedule of Maintenance Costs and Charges for Community Facilities Districts, effective July 1, 2021 is hereby adopted.

BE IT FURTHER RESOLVED, the Chief Financial Officer has authority to make automatic annual inflationary adjustments for the various costs and charges identified in the schedule based on the yearly change in the all-urban Consumer Price Index (CPI) for the San Francisco-Oakland-Hayward area.

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

AYES COUNCILMEMBERS:

NOES COUNCILMEMBERS:

ABSENT COUNCILMEMBERS:

_____
MAYOR

ATTEST:

_____
City Clerk

EXHIBIT “A”

CITY OF ROSEVILLE

MAY 2021

Annual Maintenance Costs for Maintenance CFDs

ClearSource Financial Consulting

TERRY MADSEN | PRINCIPAL CONSULTANT
tmadsen@clearsourcefinancial.com | 831.288.0608
7960 B Soquel Drive, Suite 363 | Aptos, California 95003
www.clearsourcefinancial.com

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B	Cost of Service Data Sources
1	Park Maintenance, Landscape Corridors, Paseos and Median Maintenance, Preserve and Open Space Maintenance
2	Bike Trail Maintenance
3	Street Sweeping and Leaf Pickup
4	Historical Cost and Budget Documentation

ClearSource Financial Consulting

7960 B SOQUEL DRIVE, SUITE 363 | APTOS, CALIFORNIA 95003
831.288.0608 | WWW.CLEARSOURCEFINANCIAL.COM

May 13, 2021

CITY OF ROSEVILLE
Attention: Dennis Kauffman, Chief Financial Officer
311 Vernon Street
Roseville, California 95678

Annual Maintenance Costs for Maintenance CFDs

Dear Dennis:

ClearSource Financial Consulting submits the following report to the City of Roseville describing the findings of our assistance to the City in developing an updated schedule of annual maintenance costs for services provided to Community Facilities Districts (CFDs) throughout the community.

Please refer to the Executive Summary for the key findings that will support your process in seeking approval from the City Council on this topic, while the balance of the report and its appendices provide the necessary documentation for implementation of those outcomes.

Thank you for the opportunity to once again serve the City on cost of service and cost recovery topics. We are happy to continue discussion on this CFD maintenance cost and fee schedule as the need arises or consult with you on additional topics.

Sincerely,

TERRY MADSEN, PRESIDENT | CLEARSOURCE FINANCIAL CONSULTING

PHONE NUMBER: 831.288.0608
EMAIL ADDRESS: tmadsen@clearsourcefinancial.com

EXECUTIVE SUMMARY

PROJECT

The City of Roseville maintains a schedule identifying annual maintenance costs for services provided to Community Facilities Districts (CFDs) throughout the community. The purpose of this schedule is to provide a **uniform set of costs** to adequately and proportionately recover the cost of operations, maintenance, and administration of services within maintenance CFDs in a transparent, efficient, and consistently applied manner.

The uniform schedule of costs supports a more streamlined process for negotiating CFD conditions, improved cost recovery, and equity between districts. The schedule of costs is intended to minimize negotiation of cost recovery on district by district basis. Historically, these costs have been heavily negotiated as new CFDs are developed, yielding divergent outcomes inconsistent with preferred practices and policies of the City at large.

FINDINGS

During the course of study, information was generated in detail and is discussed substantively throughout this report and appendices. However, outcomes of particular interest to City leadership and policymakers are highlighted below:

1 | A Comprehensive Array of Services are Provided by the City which are of Benefit to Districts

Though not all used by every CFD, nor to the same level of service, the following broad categories of ongoing maintenance services are provided by the City to CFDs throughout the community:

- Preserve and open space maintenance
- Park maintenance
- Streetscape maintenance
- Stormwater management

2 | Historical Practices Resulted in Divergent Unit Costs among Districts for Like Services

Despite similarities in the source and provision of maintenance services in special financing districts, historically the City's CFDs have been subject to divergent charges (or unit cost bases) for the City to recover the costs it incurs to serve. Without further explanation, this yields the appearance, if not the actual effect, of disparate cost recovery to the City and treatment of individual districts.

3 | Historical Practices Created Excessive Negotiation over Cost Recovery for New Districts

In absence of a uniform schedule of costs for services provided to CFDs, the individual interests representing each entity – particularly those in the planning stages – are inadvertently given opportunity to negotiate applied costs. This overly burdens City resources and further exacerbates the divergent outcomes cited above.

Furthermore, negotiation of applied costs risks a level of cost recovery less than adopted City policy, which targets full cost recovery for services of individual use or benefit, except where indicated by other established policy.

4 | City Data Management Enables More Consistent Unit Cost Derivation

The City of Roseville deploys ample means for tracking workload and cost data in the services related to, if not directly provided, to these districts. In a data-driven organization, justifying, maintaining, and applying formal uniform schedules of cost recovery is reasonably enabled. Use of such data in valuable ways, such as cost recovery and workload management, also increases the quality of these data management practices over time.

5 | Uniform Schedule of Costs Results in a More Efficient, Predictable, and Fair Cost Recovery System

In an effort to correct existing inefficiencies in cost recovery practices related to maintenance CFDs, a **Master Schedule of Maintenance Costs and Charges** applicable to all future CFDs was established in March 2019. The schedule has been annually updated by the City since 2019.

Refer to **Appendix A** to view the service array, costs of service, and proposed maintenance charges for CFDs.

FINANCIAL IMPACTS

At this time, no financial impacts associated with implementation are estimated. Overall, it can be stated that this Schedule of Costs is intended to **target full cost recovery in a fair and reasonable manner for all future maintenance CFDs** once implemented.

ACTION

This report and the proposed **Schedule of Costs and Charges for Maintenance CFDs** is presented to City leadership and the City Council for review, scheduling of public hearing, and consideration of approval.

PROJECT ORIENTATION

SCOPE OF STUDY

The City of Roseville completed a project to develop a **schedule identifying annual maintenance costs for services provided to maintenance Community Facilities Districts (CFDs) throughout the community**. ClearSource Financial Consulting, as an incumbent provider of other user/regulatory fee and cost recovery consulting for the City, assisted the City with this effort. Key outcomes expected of the uniform schedule of maintenance costs for CFDs include the following:

- A comprehensive array of maintenance services provided by the City to maintenance CFDs throughout the community.
- Consistent unit costs applied for like services.
- Reduction and eventual elimination of negotiation over unit costs of services and cost recovery from individual districts.
- Congruence of CFD cost recovery with broader City policy on recovery of costs for services of individual use or benefit.
- Enhanced utilization of City data management tools to more accurately record levels of activity and associated costs of providing service.
- A uniform schedule of costs and consistently applied cost recovery.

APPLICATION OF STUDY OUTCOMES

The outcome of this project – a uniform schedule of costs as a cost recovery system for maintenance CFDs citywide – is intended for application for all new CFDs planned and formed by the City.

Values expressed in this report are appropriate for Fiscal Year 2021-2022. Future use will require inflationary adjustments, comparable to City practices for other user and regulatory fees, and periodic analysis of underlying costs of service, in order to ensure costs and charges are appropriately quantified and structured.

CONSIDERATIONS FOR IMPLEMENTATION

If the City decides to adopt or otherwise utilize outcomes generated through this study, it should:

- **Update Systems for Fees, Charges and Cost Recovery Outcomes** – Ensure that City staff begin using updated annual cost and charge information for maintenance CFDs, once the Schedule of Maintenance Costs and Charges becomes effective. This will include efforts in two areas:
  - Administration: Applying unit costs of service in the schedule to the individual attributes of each district, to the degree feasible.

- Workload Management: Preparing the array of attributes and statistics by district that related to the services provides, such as various measurements of different maintained areas.

- **Actively Encourage and Monitor the Use of Data Tracking Systems that Support Cost of Service-Based Charges** – In order to portray accurate and eligible costs of service, the City should be diligent about tracking time to tasks and recording statistics describing scale of tasks. This will ensure costs and charges continue to be developed following actual activity levels as intended.

- **Periodically Review and Adjust Charge Methodologies** – To ensure continued cost recovery targeted, costs and charges should be updated annually, following industry cost inflation metrics. Furthermore, as a new schedule of costs and charges, a more in-depth examination of underlying costs of service and effectiveness of cost recovery should occur every two years until systems and application are more established. Afterward, a comprehensive study of costs and charges can follow timelines more consistent with other City user and regulatory fees.

Areas recommended for future consideration as this Schedule of Maintenance Costs and Charges for maintenance CFDs continues to be updated are noted in relevant sections elsewhere in this document.

MASTER SCHEDULE OF MAINTENANCE COSTS AND CHARGES FOR MAINTENANCE CFDs

Purpose

The purpose of a schedule of maintenance cost and charges for maintenance CFDs is to provide a uniform set of costs and charges to adequately and proportionately recover the cost of maintenance services within CFDs in a transparent, efficient, and consistently applied manner.

Once implemented, the schedule of costs and charges is intended to be **applicable to all future maintenance CFDs**: When applied to the individual attributes of each district, charges are intended to recover the annual costs of service for the maintenance service provided.

Services Provided

This schedule of maintenance costs and charges identifies uniform cost recovery for various direct services provided to maintenance CFDs throughout the community. It is important to note that not all maintenance CFDs demand each service, or even the same *level* of service. Actual application of costs and charges will be based on the services necessitated by the formation documents of each individual district.

A description of each direct service listed in the schedule of costs and charges is as follows:

- **Preserve and Open Space Maintenance** – The City maintains open space/preserves within maintenance CFDs. Activities include, but are not limited to:
  - General Biological Inspection
  - Vernal Pool Grasslands
  - Upland Grassland Monitoring
  - Understory Grassland Monitoring
  - Oak Species Composition and Recruitment
  - Residual Dry Matter Monitoring
  - Ground Nesting Bird Survey
  - California Department of Fish and Wildlife Routine Maintenance Agreement
  - General Maintenance Inspection (three levels of service)
  - Tree Assessment for Health and Vigor
  - Tree Assessment in Target Safety Zone
  - Winter and Spring Corridor Assessment (three levels of service)
  - General Routine Maintenance (three levels of service)
  - General Non-Routine Maintenance (three levels of service)
  - Public Interaction (three levels of service
  - Vegetation Abatement
  - Creek Corridor Routine Maintenance (three levels of service)
  - Creek Corridor Non-Routine Maintenance (three levels of service)

- **Park Maintenance** – The City maintains recreational parks and facilities within maintenance CFDs. Activities include:
  - Maintenance of Basic Neighborhood Park up to Five Acres
  - Maintenance of Neighborhood/School Park up to 12 Acres +/-, including the following standard amenities *:
    - Organized sports fields
    - Hard sports courts
    - Two game courts
    - One standard, two-room restroom
    - One specialty park feature
    - Maintained turf
    - Large group shaded picnic area, six tables or more
    - Off-street parking lot, 15 stalls or more
    - Asphalt trail

  * Actual amenities are based on city-wide needs, gaps, recreation trends and developable acres.

- **Streetscape Maintenance** – The City maintains space and facilities as part of the streetscape within maintenance CFDs. Activities include:
  - Landscape Corridor/Paseo/Median Maintenance
  - Leaf Pickup
  - Street sweeping
  - Bike Trail Maintenance
  - Masonry Wall Maintenance and Repair and Graffiti Removal

- **Stormwater Management** – Maintenance CFDs participate in the City's stormwater management program, including maintaining water quality structural controls such as drainage swales constructed between storm drain facilities and receiving waters.

☑ **Future Consideration** – In subsequent updates of the schedule of maintenance costs and charges for maintenance CFDs, the City should continue to review the array of services listed in the schedule to ensure it is a complete inventory of all activities occurring to serve these districts and portrayed at an adequate level of detail for effective, proportional application.

Cost of Service Basis for Fees

Refer to the next section and the appendices of this report for a comprehensive list of data sources used as the cost of service justification for costs and charges presented. In summary, the following types of information were used to determine the basis for values in the schedule:

- Adopted City budget and actual performance, reflecting revenues, expenditures, organizational structure, and accounting structures, such as types of expenses recorded and fund configuration
- Workload management databases utilized by operational departments which track statistics such as:

  - Staff time to tasks and/or projects, programs, or "clients"
  - Work order activity, such as time and materials needed for individual tasks
- Specialized studies that analyze aspects of the costs of services, such as:
  - Unit cost analysis of maintenance activities
  - Fully burdened hourly rates, labor multipliers, and other outcomes related to user and regulatory fees
  - Indirect cost allocation plan
- Hearing reports and other formal documentation associated with existing maintenance CFDs

☑ **Future Consideration** – To support subsequent updates of the schedule of costs and charges for maintenance CFDs, the City should actively monitor workload management databases, particularly staff time-tracking, to ensure all personnel are recording time as completely as possible at a level of detail that can support cost recovery practices linked to a "cost of service" basis. Active use and periodic monitoring ensure more accurate databases compiled over time.

Charge Methods

Costs and charges are based on certain attributes of each maintenance CFD, which would indicate amount of service provided and create proportionality in outcomes between districts. Charge methods reflected in the schedule are as follows:

- **Amenity Size** – This reflects measurements of maintained areas related to the services provided. This includes acres, square feet, miles, and lineal feet of different types of space and facilities maintained.
- **Service Base** – This would describe the population served. For example, each residential unit may be used as an applicable service base.
- **Service Cost** – This method uses other costs as a metric, such as a percentage of other direct costs of service or total expenditures recorded to the district.
- **Actual Cost** – This method creates a pass-through: actual costs billed, such as metered utilities to the physical location (e.g., electricity, water) or specialized, contracted services necessitated.
- **Frequency** – A frequency for each fee amount is indicated in the fee schedule, such as yearly.

Cost Recovery Policy

The City's budget messaging has been consistent over time: "Fairly allocating costs to the services provided creates value and predictability for our customers and reimburses the City for expenses requested by a single party, as compared to the public at large. Fees in general ensure equity; those who benefit the most should pay the most, and pricing ensures that users pay appropriate fees."

Furthermore, the City published *Goals and Policies Concerning the Use of Mello-Roos Community Facilities Act of 1982*. An outlined purpose of the services/maintenance district is to fund the ongoing costs of parks and open space, public landscaping, police and fire protection services and library services and maintenance not funded by other sources; and to pay for any unfunded ongoing City maintenance or service costs associated with the development project.

The policies and goals described in that document provide a structure that among other objectives, seeks:

- Fairness to current and future property owners
- Protection of the City's financial position
- Reimbursement to the City of incurred expenses

It is expected that a schedule of maintenance costs and charges for CFDs will enable consistency of cost recovery in line with City policies such as these, whereas negotiation-based practices not only create an inefficient process overly burdensome to City resources, but also, divergent outcomes between districts utilizing similar services and the actual recovery level of costs incurred.

Cost and Charge Amounts

The annual cost and charge amounts proposed for the maintenance services described in this report are listed in the **Schedule of Maintenance Costs and Charges for Maintenance CFDs** attached as **Appendix A**. Values shown reflect applicability in Fiscal Year 2021-2022.

To ensure continued cost recovery targeted, costs and charges should be updated annually, following industry cost inflation metrics. Furthermore, as a new schedule of costs and charges, a more in-depth examination of underlying costs of service and effectiveness of cost recovery should occur every two years until systems and application are more established. Afterward, a comprehensive study of costs and charges can follow timelines more consistent with other City user and regulatory fees.

COST OF SERVICE BASIS FOR FEES

This project served as a means for accumulating individual cost of service analysis and information developed by the City across its organization that can support a uniform schedule of maintenance costs and charges for special financing districts. The following section describes the documentation associated with each service category and/or activity in the schedule. The **Appendix B** series shows each data source.

Preserve and Open Space Maintenance

Park Maintenance and Landscape Corridor/Paseo/Median Maintenance

The City's Parks Department analyzed annual parks maintenance time to service basic and full-service neighborhood parks. This maintenance time was used to inform the final acreage-based maintenance costs reflected in the schedule of costs and charges.

The City recently developed a study of preserve and open space maintenance costs at the activity level. The report is titled *Preserve and Open Space – Summary of Estimated Cost Analysis*. Unit costs derived in this report are reflected in the schedule of costs and charges. The original schedule developed has been updated to reflect regional cost inflation over-time.

Details regarding these maintenance time estimates and cost of service are included in **Appendix B-1**.

Bike Trail Maintenance

The City performs routine maintenance of bike trails. This information is included in **Appendix B-2**.

Street Sweeping and Leaf Pickup

The City tracks labor and materials to street sweeping and leaf removal activities. This reporting information was used to develop the time and labor cost estimates detailed in **Appendix B-3**.

APPENDIX A

SCHEDULE OF MAINTENANCE COSTS AND CHARGES FOR CFDs

PROPOSED FOR FISCAL YEAR 2021-2022

City of Roseville

SCHEDULE OF MAINTENANCE COSTS AND CHARGES FOR COMMUNITY FACILITIES DISTRICTS

Services and Activities	Page
Park Maintenance, Landscape Corridors, Paseo and Median Maintenance, and Open Space Maintenance	1
Preserve and Open Space Maintenance - Detailed	2
Street Sweeping, Leaf Pickup, and Bike Trail Maintenance	5
Stormwater Management	6

City of Roseville

Park Maintenance, Landscape Corridors, Paseo and Median Maintenance, and Open Space Maintenance

#	Activity Cost Description	Calculation Unit	Frequency	Effective July 1, 2020	Effective July 1, 2021	Note
1	Landscape Corridors, Paseos, Medians	per acre	yearly	$12,017	$12,548	
2	Neighborhood Park: Basic, 3 to 5 Acres	per acre	yearly	$13,352	$13,942	
3	Neighborhood/School Park, up to 12 Acres	per acre	yearly	$14,224	$14,872	
4	Open Space	per acre	yearly	Varies - See detail sheet	$1,435	[a]

[a] The City typically uses amounts shown in the "Preserve and Open Space Maintenance - Detailed" fee section to calculate Open Space costs. If information for detailed calculation is not readily available, open space "per acre" amount may be used.

City of Roseville

Preserve and Open Space Maintenance - Detailed

#	Activity Cost Description	Calculation Unit	Frequency	Effective July 1, 2020	Effective July 1, 2021
	Biological Inspections				
1	General Biological Inspection	per acre	yearly	$50	$50
	Vernal Pool Grasslands:				
2	Wet Season Vernal Pool Hydrology and Invertebrate Survey	per vernal pool	yearly	$184	$186
3	Dry Season Vernal Pool Hydrology and Floristics	per vernal pool	yearly	$184	$186
4	Upland Grassland Monitoring	per 25 acres	yearly	$1,643	$1,661
5	Oak Woodland Understory Grassland	per 25 acres	yearly	$1,643	$1,661
6	Oak Species Composition and Recruitment	per 25 acres	yearly	$621	$628
7	Residual Dry Matter Monitoring	per 25 acres	yearly	$604	$611
8	Ground Nesting Bird Survey	per acre	yearly	$340	$344
	General Maintenance Inspections and Tasks				
	General Maintenance Inspection:				
9	Level of Service A	per acre	yearly	$65	$66
10	Level of Service B	per acre	yearly	$130	$131
11	Level of Service C	per acre	yearly	$196	$198
	General Routine Maintenance:				
12	Level of Service A	per acre	yearly	$196	$198
13	Level of Service B	per acre	yearly	$392	$396
14	Level of Service C	per acre	yearly	$783	$792
	General Non-Routine Maintenance:				
15	Level of Service A	per preserve	yearly	$294	$297
16	Level of Service B	per preserve	yearly	$587	$594
17	Level of Service C	per preserve	yearly	$881	$891
	Tree Assessment for Health and Vigor:				
18	Oak Woodland	per acre	yearly	$93	$94
19	Riparian Woodland	per acre	yearly	$247	$250
20	Tree Assessment in Target Safety Zone	per tree	yearly	$108	$109
	Public Interaction:				
21	Level of Service A	per preserve	yearly	$1,175	$1,187
22	Level of Service B	per preserve	yearly	$2,349	$2,375
23	Level of Service C	per preserve	yearly	$4,698	$4,750
	Vegetation Abatement:				
24	Grazing	per acre	yearly	$361	$365
25	Mowing	per acre	yearly	$495	$500
	Creek Corridor Inspections and Tasks				
	Winter and Spring Corridor Assessment:				
26	Level of Service A	per acre	yearly	$65	$66
27	Level of Service B	per acre	yearly	$130	$131
28	Level of Service C	per acre	yearly	$196	$198
	Creek Corridor Routine Maintenance:				

City of Roseville

Preserve and Open Space Maintenance - Detailed

#	Activity Cost Description	Calculation Unit	Frequency	Effective July 1, 2020	Effective July 1, 2021
29	Level of Service A	per acre	yearly	$392	$396
30	Level of Service B	per acre	yearly	$783	$792
31	Level of Service C	per acre	yearly	$1,175	$1,187
	Creek Corridor Non-Routine Maintenance:				
32	Level of Service A	per preserve	yearly	$783	$792
33	Level of Service B	per preserve	yearly	$1,566	$1,583
34	Level of Service C	per preserve	yearly	$2,349	$2,375
	Equipment and Restoration				
35	Post and Cable Fence	per LF	yearly	$0.31	$0.31
36	Ranch Fence	per LF	yearly	$0.41	$0.42
37	Gates	each	yearly	$206	$208
38	Signs	each	yearly	$21	$21
39	Bollards	each	yearly	$34	$35
40	Vernal Pool Grassland	per acre	yearly	$23	$24
41	Oak Woodland/Savannah	per acre	yearly	$84	$85
42	Riparian Woodland/Wetland	per acre	yearly	$163	$165
	RMA Compliance				
43	Prepare and Follow-up of VRF w/Photo Documentation	per preserve	yearly	$1,380	$1,395
44	Pre-maintenance Habitat Survey	per acre	yearly	$12	$13
45	Nesting Bird Survey (other than for mowing) Level A	per acre	yearly	$150	$151
46	Nesting Bird Survey (other than for mowing) Level B	per acre	yearly	$227	$229
47	Nesting Bird Survey (other than for mowing) Level C	per acre	yearly	$453	$458
48	Annual Environmental/Invasive Species Training	per preserve	yearly	$348	$352
49	Fact Sheets/Onsite Cards	per preserve	yearly	$103	$104
50	Annual Report on Routine Maintenance	per preserve	yearly	$31	$31
51	Annual Monitoring Report for Restoration	per preserve	yearly	$10	$10
52	4-Year RMA Status Report	per preserve	yearly	$4	$4

City of Roseville

Street Sweeping, Leaf Pickup, and Bike Trail Maintenance

#	Activity Cost Description	Calculation Unit	Frequency	Effective July 1, 2020	Effective July 1, 2021
1	Street Sweeping	per curb mile	yearly	$41.01	$43.22
2	Leaf Pickup	per mile	yearly	$65.98	$69.53
3	Bike Trail Maintenance	per LF	yearly	$1.14	$1.16

City of Roseville

Stormwater Management

#	Activity Cost Description	Calculation Unit	Frequency	Effective July 1, 2020	Effective July 1, 2021
1	Stormwater Management	residential unit	yearly	will vary by CFD	will vary by CFD

[a] Cost per unit will vary depending on total development area and number of units proposed for development.

APPENDIX B

COST OF SERVICE DATA SOURCES

Section	Service Area
1	Park Maintenance, Landscape Corridors, Paseos and Median Maintenance, Preserve and Open Space Maintenance
2	Bike Trail Maintenance
3	Street Sweeping and Leaf Pickup

APPENDIX B-1

PARK MAINTENANCE, LANDSCAPE CORRIDORS, PASEO AND MEDIAN MAINTENANCE, AND PRESERVE AND OPEN SPACE MAINTENANCE

City of Roseville
Calculation of Annual Costs for Landscape Maintenance (Parks, Paseos, Medians, etc.)

Operating Statistics

Description	FY 18/19	FY 19/20	FY 20/21	Note
Park Acres	750	761	815	[a]
Streetscape Acres	294	294	294	[a]
Open Space Acres	4,000	4,000	4,000	[a]
Total	5,044	5,055	5,109	

Expenditures - Parks, Recreation & Libraries

Description	FY 18/19	FY 19/20	FY 20/21	Note
Administration	$4,118,240	$4,027,219	$3,593,002	[a]
Parks - Maintenance (58110)	*$6,529,186*	*$7,366,702*	*$8,039,911*	[b]
Parks - Open Space (58120)	*$1,958,188*	*$2,903,309*	*$3,017,359*	[b]
Parks - Development (58130)	$1,923,518	$644,133	$674,061	[b]
Recreation	$5,259,661	$6,550,785	$6,766,721	[a]
Library	$5,019,164	$5,403,810	$5,569,970	[a]
Youth Development	$6,228,200	$6,462,389	$7,233,025	[a]
Golf	$2,267,555	$2,505,033	$2,315,070	[a]
Total	$33,303,712	$35,863,380	$37,209,119	

Expenditures - Service Districts

Description	FY 18/19	FY 19/20	FY 20/21	Note
Administration	$962,315	$899,685	$828,766	[a]
Bike Trail Maintenance	$200,000	$200,000	$200,000	[c]
Maintenance (All Other)	*$7,591,938*	*$8,847,694*	*$9,971,329*	[a]
Total	$8,754,253	$9,947,379	$11,000,095	

Adjusted Expenditures - For Calculating Park Maintenance and Open Space Maintenance Costs

Description	FY 18/19	FY 19/20	FY 20/21	Note
Parks - Maintenance (58110)	$6,529,186	$7,366,702	$8,039,911	[a]
Parks - Open Space (58120)	$1,958,188	$2,903,309	$3,017,359	[a]
Maintenance (All Other)	$7,591,938	$8,847,694	$9,971,329	[a]
Total	$16,079,312	$19,117,705	$21,028,599	

Share of Costs Per Acre

Description	FY 18/19	FY 19/20	FY 20/21	Note
Parks & Streetscapes	77%	72%	73%	[b]
Open Space	23%	28%	27%	[b]
Total	100%	100%	100%	

Allocation of Maintenance Costs with Break-out of "Maintenance - All Other" Cost Pool

Description	FY 18/19	FY 19/20	FY 20/21	Note
Parks - Maintenance (58110)	$6,529,186	$7,366,702	$8,039,911	
Maintenance (All Other) - Share to Parks & Streetscapes	$5,840,343	$6,346,471	$7,250,307	
Parks - Open Space (58120)	$1,958,188	$2,903,309	$3,017,359	
Maintenance (All Other) - Share to Open Space	$1,751,595	$2,501,223	$2,721,022	
Total	$16,079,312	$19,117,705	$21,028,599	

Total Expenditures

Description	FY 18/19	FY 19/20	FY 20/21	Note
Parks and Streetscapes Maintenance	$12,369,529	$13,713,173	$15,290,218	[a]
Open Space	$3,709,783	$5,404,532	$5,738,381	[a]
Total	$16,079,312	$19,117,705	$21,028,599	

Cost Per Acre

Description	FY 18/19	FY 19/20	FY 20/21	Note
Parks & Streetscapes	$11,848	$12,998	$13,787	
Open Space	$927	$1,351	$1,435	
Total	$12,776	$14,349	$15,222	

City of Roseville
Calculation of Annual Costs for Landscape Maintenance (Parks, Paseos, Medians, etc.)

Share of Parks and Streetscapes Maintenance Effort Per Year

Description	Hours Per Acre	Average for Weighted Factor	Factor	Note
Paseos, Medians, Landscape Corridors	108	119	0.91	[d]
Neighborhood Park: Basic, 3 to 5 Acres	120	119	1.01	[d]
Neighborhood/School Park, up to 12 Acres +/- *	128	119	1.08	[d]

Cost Per Acre Parks and Streetscape Maintenance

Description	Average Cost Per Acre	Weighted Factor	Total Cost Per Acre	Note
Paseos, Medians, Landscape Corridors	$13,787	0.91	$12,548	
Neighborhood Park: Basic, 3 to 5 Acres	$13,787	1.01	$13,942	
Neighborhood/School Park, up to 12 Acres +/- *	$13,787	1.08	$14,872	

Cost Per Acre Open Space Maintenance

Description	Average Cost Per Acre	Note
Open Space	$1,435	

[a] Source: FY 20/21 Adopted Budget

[b] Source: FY 20/21 Adopted Budget. Amounts are summarized in the budget (i.e. rolled-up). Breakout provided by line item budget.
[c] Approximation, based on historical costs per mile. Amount intended to serve as reasonable adjustment to exclude bike trail maintenance costs from costs to be recovered via per acre park and streetscape maintenance costs.
[d] Source: Hours per acre based on estimated workflow analysis prepared by Parks, Recreation, and Library staff. See accompanying worksheet.

City of Roseville
Calculation of Annual Per Acre Maintenance Costs for Landscape Maintenance (Parks, Paseos, Medians, etc.)

Landscape Corridors, Paseos, Medians

Description	Annual Hours	Unit	Notes
All Maintenance	108	per acre	[a]

Neighborhood Park: Basic, 3 to 5 Acres

Description	Annual Hours	Unit	Notes
All Maintenance	120	per acre	[a]

Neighborhood/School Park, up to 12 Acres +/- *

Description	Annual Hours	Est. Acres	Annual Hours Per Acre	Unit	Notes
(1) full sized basketball court	4	12	0.33	per acre	[b]
(2) Tennis courts	4	12	0.33	per acre	[b]
(1) Youth (unlit) baseball field	24	12	2.00	per acre	[b]
(1) Youth (unlit) softball field	24	12	2.00	per acre	[b]
Regulation sized soccer (2)	32	12	2.67	per acre	[b]
(1) Standard (2 room) restroom	80	12	6.67	per acre	[b]
(1) non-recirculating water feature (mists)	2	12	0.17	per acre	[b]
(2) Horseshoe Courts	2	12	0.17	per acre	[b]
Large group shaded picnic area (6 tables +)	32	12	2.67	per acre	[b]
Off-street parking lot (+15)/stall	32	12	2.67	per acre	[b]
Asphalt trail/mile	2	12	0.17	per acre	[b]
Turf Maintenance	108	1	108.00	per acre	[a];[c]
Total			127.83	per acre	

Notes:
[a] Includes weekly mowing, edging, and trimming; periodic fertilization, aerification, chemical application, irrigation system check, spot system check, and as-needed repairs.
[b] Non-turf analysis assumes 12-acre park to provide a conservative estimate. Assumes economy of scale for turf maintenance of larger areas.
[c] Assumes economy of scale for turf maintenance of larger park areas.
* This list is an example of typical school/park amenities. Actual amenities will vary.

City of Roseville
Open Space Maintenance Costs

Description		FY 21/22 Annual Cost Per Unit	Unit
Biological Inspections	General Biological Inspection	$ 50.27	Acre
	Wet Season VP Hydrology and Invertebrates	$ 186.24	Pool
	Dry Season VP Hydrology and Floristics	$ 186.24	Pool
	VP Upland Grassland	$ 1,661.42	OS
	Oak Woodland Understory Grassland	$ 1,661.42	OS
	Oak Species Composition and Recruitment	$ 628.11	OS
	Residual Dry Matter	$ 610.72	OS
	Ground Nesting Bird Surveys	$ 343.74	Acre
General Maintenance Inspections and Tasks	General Maintenance Inspection Level A	$ 65.97	Acre
	General Maintenance Inspection Level B	$ 131.94	Acre
	General Maintenance Inspection Level C	$ 197.91	Acre
	General Maintenance Routine Level A	$ 197.91	Acre
	General Maintenance Routine Level B	$ 395.82	Acre
	General Maintenance Routine Level C	$ 791.65	Acre
	General Maintenance Non-routine Level A	$ 296.87	Preserve
	General Maintenance Non-routine Level B	$ 593.74	Preserve
	General Maintenance Non-routine Level C	$ 890.61	Preserve
	Tree Assessment - Health and Vigor - Oak Woodland	$ 93.75	Acre
	Tree Assessment - Health and Vigor - Riparian Woodland	$ 249.99	Acre
	Tree Assessment - Target Zone Safety	$ 109.37	Tree
	Public Interaction - Level A	$ 1,187.47	OS
	Public Interaction - Level B	$ 2,374.95	OS
	Public Interaction - Level C	$ 4,749.89	OS
	Vegetation Abatement - Grazing Sheep/Goats	$ 364.58	Acre
	Vegetation Abatement - Mowing	$ 499.99	Acre
Creek Corridor Insp./Tasks	Creek Corridor Inspection - Level A	$ 65.97	Acre
	Creek Corridor Inspection - Level B	$ 131.94	Acre
	Creek Corridor Inspection - Level C	$ 197.91	Acre
	Creek Corridor Maintenance Routine - Level A	$ 395.82	Acre
	Creek Corridor Maintenance Routine - Level B	$ 791.65	Acre
	Creek Corridor Maintenance Routine - Level C	$ 1,187.47	Acre
	Creek Corridor Maintenance Non-routine - Level A	$ 791.65	Preserve
	Creek Corridor Maintenance Non-routine - Level B	$ 1,583.30	Preserve
	Creek Corridor Maintenance Non-routine - Level C	$ 2,374.95	Preserve
Equipment & Rest'rtn	Post and Cable Fence	$ 0.31	LF/Yr
	Ranch Fence	$ 0.42	LF/Yr
	Gates	$ 208.33	Each/Yr
	Signs	$ 20.83	Each/Yr
	Bollards	$ 34.72	Each/Yr
	Vernal Pool Grassland	$ 23.75	Acre/Yr
	Oak Woodland/Savannah	$ 85.00	Acre/Yr
	Riparian Woodland/Wetland	$ 165.00	Acre/Yr
RMA Compliance	Prepare and Follow-up of VRF w/Photo Documentation	$ 1,395.02	Preserve
	Pre-maintenance Habitat Survey	$ 12.57	Acre/Yr
	Nesting Bird Survey (other than for mowing) Level A	$ 151.25	Acre/Yr
	Nesting Bird Survey (other than for mowing) Level B	$ 229.16	Acre/Yr
	Nesting Bird Survey (other than for mowing) Level C	$ 458.32	Acre/Yr
	Annual Environmental/Invasive Species Training	$ 352.17	Preserve
	Fact Sheets/Onsite Cards	$ 104.16	Preserve
	Annual Report on Routine Maintenance	$ 31.25	Preserve
	Annual Monitoring Report for Restoration	$ 10.42	Preserve
	4-Year RMA Status Report	$ 3.91	Preserve

APPENDIX B-2

BIKE TRAIL MAINTENANCE

City of Roseville
Calculation of Bike Trail Per Lineal Foot Maintenance Costs

Bike Trail Maintenance Cost Per Lineal Foot (LF)

Description	Costs Per Mile	Lineal Feet Per Mile	Cost Per LF	Unit	Notes
Bike Trail Maintenance	$6,146	5,280	$1.16	per LF	[a]

Notes:
[a] Source: City trail maintenance costs per mile confirmed by calculations provided by the Public Works Department on March 20, 2018, inflated by regional change in CPI.

APPENDIX B-3

STREET SWEEPING AND LEAF PICKUP

City of Roseville
Calculation of Hourly Rate for Street Sweeping and Leaf Pickup

Expense Information	62345 - Street Sweeping	62310 - Street Drainage		
Description	Total	Adjustment	Total	Notes
Salaries: Full-Time Employees	$392,416	$186,548	$578,964	[a]
Benefits: Full-Time Employees	$223,667	$124,314	$347,981	[a]
Recurring Services and Supplies	$716,210	$389,151	$1,105,361	[a]
Adjustment	$0	($319,667)	($319,667)	[a]
Total	$1,332,293	$380,346	$1,712,639	

FTE Information

Description	Total	Total	Total	Notes
Full-Time Employee Count	5.00	3.00	8.00	[b]

Direct Hours: Full-Time Employees

Description	Paid Hours Per FTE	Adjustment for Leave	Productive Hours	% of Time Spent on Indirect	Direct Hours	Direct Hours Rounded Per FTE	Total Direct Hours (All FTE and Part-Time)	Notes
Full-Time Employees	2,080	(216)	1,864	6%	1,748	1,750	14,000	[c];[d]

Direct Hours: Part-Time/Temporary Employees

Description	Total Wages	Est. Hourly Rate	Paid Hours	Paid Hours Rounded	Notes
Part-Time/Temporary Employees	$ -	$ 25	-	-	[e]

Direct Hours: Total

Description	Total	Notes
Full-Time Employees	14,000	
Part-Time/Temporary Employees	-	
Total	14,000	

Fully-Burdened Hourly Rate for use in FY 20/21

Description	Total	Notes
Expenses	$1,712,639	
Hours	14,000	
Hourly Rate	$122	

Hourly Rate Adjustment for use in FY 21/22

Description	Total	Notes
FY 20/21 Hourly Rate	$122	
CPI Adjustment	1.1%	[f]
Hourly Rate	$124	

Notes:
[a] Source: FY 20/21 adopted budget.
[b] Source: Adopted labor allocation for FY 20/21.
[c] Leave includes adjustments for holiday, sick, vacation.
[d] Indirect hours adjustments assumes 30 minutes per day spent on mandatory rest periods, administrative activities, etc.
[e] Hourly rate estimated by ClearSource for purposes of this analysis.
[f] CPI change from Oct 2019 - Oct 2020.

City of Roseville
Calculation of Per Curb Mile Street Sweeping Costs

Street Sweeping Cost Per Curb Mile

Description	Curb Miles	Hours	Hours Per Curb Mile	Hourly Rate	Total	Unit	Notes
Street Sweeping	9,634	3,366	0.35	$124	$43.22	per curb mile	[a]
Street Sweeping	8,848	3,579	0.40	$124	$50.03	per curb mile	[b]
Average	9,241	3,473	0.38	$124	$46.48	per curb mile	

Description	Curb Miles	Hours	Hours Per Curb Mile	Hourly Rate	Total	Unit	Notes
Street Sweeping	9,634	3,366	0.35	$124	$43.22	per curb mile	[c]

Notes:
[a] Logged hours and curb miles based on annual report log for the period 1/1/2017 through 12/31/2017.
[b] Logged hours and curb miles based on annual report log for the period 1/1/2019 through 12/31/2019.
[c] Using 2017 miles and hours statistics, but will continue to gather historical data and adjust in future years if necessary.

City of Roseville
Calculation of Per Curb Mile Leaf Pickup Costs

Leaf Pickup Cost Per Curb Mile

Description	Curb Miles	Hours	Hours Per Curb Mile	Hourly Rate	Total	Unit	Notes
Leaf Pickup	2,925	1,645	0.56	$124	$69.53	per curb mile	[a]
Leaf Pickup	2,016	1,599	0.79	$124	$98.10	per curb mile	[b]
Average	2,471	1,622	0.66	$124	$81.19	per curb mile	

Description	Curb Miles	Hours	Hours Per Curb Mile	Hourly Rate	Total	Unit	Notes
Street Sweeping	2,925	1,645	0.56	$124	$69.53	per curb mile	[c]

Notes:
[a] Logged hours and curb miles based on annual report log for Fall Leaf Program 2017.
[b] Logged hours and curb miles based on annual report log for Fall Leaf Program 2019.
[c] Using 2017 miles and hours statistics, but will continue to gather historical data and adjust in future years if necessary.

APPENDIX B-4

COST DOCUMENTATION

City of Roseville
Parks Maintenance Budget

Center	Fund	Account	FY2018-19 Actual Final	FY2019-20 Amended Budget	FY2020-21 Working Budget
58110 - Parks Maintenance	1001 - General	5001 - Salaries	$1,900,526	$2,083,563	$2,197,063
58110 - Parks Maintenance	1001 - General	5005 - Overtime	$21,130	$4,463	$4,552
58110 - Parks Maintenance	1001 - General	5025 - Standby Pay	$6,074	$8,000	$8,160
58110 - Parks Maintenance	1001 - General	5030 - Longevity Pay	$34,350	$33,780	$41,248
58110 - Parks Maintenance	1001 - General	5035 - Certificate Pay	$12,780	$14,503	$15,221
58110 - Parks Maintenance	1001 - General	5045 - Leave Payoffs	$36,001	$43,762	$47,467
58110 - Parks Maintenance	1001 - General	5050 - Temporary - 1000 Hr Salaries	$146,517	$129,645	$112,304
58110 - Parks Maintenance	1001 - General	5053 - Temporary - 1500 Hr Salaries	$242,456	$374,564	$369,297
58110 - Parks Maintenance	1001 - General	5070 - Vacancy Factor	$0	($165,192)	($167,446)
58110 - Parks Maintenance	1001 - General	5080 - Internal Project Labor	$3,026	$0	$0
58110 - Parks Maintenance	1001 - General	5090 - Accrued Salaries	$1,870	$0	$0
58110 - Parks Maintenance	1001 - General	5101 - Benefit - Medical Insurance	$384,993	$444,159	$535,005
58110 - Parks Maintenance	1001 - General	5102 - Benefit - Health Insurance Buyou	$1,800	$1,800	$0
58110 - Parks Maintenance	1001 - General	5104 - Benefit - Dental Insurance	$36,623	$42,817	$0
58110 - Parks Maintenance	1001 - General	5106 - Benefit - Vision Insurance	$3,228	$3,928	$0
58110 - Parks Maintenance	1001 - General	5108 - Benefit - Long Term Disability - C	$522	$4,345	$5,052
58110 - Parks Maintenance	1001 - General	5110 - Benefit - Long Term Disability	$2,254	$2,865	$0
58110 - Parks Maintenance	1001 - General	5112 - Benefit - Life Insurance	$6,825	$5,932	$5,371
58110 - Parks Maintenance	1001 - General	5114 - Overtime Meals	$80	$0	$0
58110 - Parks Maintenance	1001 - General	5116 - Uniform Allowance	$16,307	$16,500	$16,500
58110 - Parks Maintenance	1001 - General	5120 - Pers - City	$128,560	$155,517	$276,103
58110 - Parks Maintenance	1001 - General	5122 - Pers - Employee	$104,649	$131,728	$0
58110 - Parks Maintenance	1001 - General	5124 - OPEB Contribution Benefit	$122,739	$135,448	$141,785
58110 - Parks Maintenance	1001 - General	5128 - PERS - UAL	$389,890	$420,280	$476,215
58110 - Parks Maintenance	1001 - General	5138 - Deferred Compensation	$38,001	$35,811	$58,064
58110 - Parks Maintenance	1001 - General	5150 - Medicare	$35,260	$39,188	$40,594
58110 - Parks Maintenance	1001 - General	5154 - State Unemployment Insurance	$2,992	$3,378	$3,499
58110 - Parks Maintenance	1001 - General	5201 - Fuel	$78,068	$89,487	$98,436
58110 - Parks Maintenance	1001 - General	5301 - Professional Services	$1,000,237	$1,148,730	$1,403,683
58110 - Parks Maintenance	1001 - General	5351 - Office Supplies	$3,896	$6,010	$6,010
58110 - Parks Maintenance	1001 - General	5369 - Supplies - Program And Event	$0	$0	$0
58110 - Parks Maintenance	1001 - General	5385 - Subscriptions	$174	$200	$200
58110 - Parks Maintenance	1001 - General	5389 - Printing	$4,005	$7,000	$7,000
58110 - Parks Maintenance	1001 - General	5391 - Postage	$12	$0	$0
58110 - Parks Maintenance	1001 - General	5395 - Equipment - Under 5000	$20,341	$14,000	$14,000
58110 - Parks Maintenance	1001 - General	5397 - Equipment - Sports Under 5000	$0	$0	$10,000
58110 - Parks Maintenance	1001 - General	5399 - Equipment - Technology Under 5	$0	$600	$600
58110 - Parks Maintenance	1001 - General	5401 - Building And Equipment Rental	$4,718	$8,500	$8,000
58110 - Parks Maintenance	1001 - General	5403 - Safety And Protective Gear	$13,301	$9,100	$9,000
58110 - Parks Maintenance	1001 - General	5411 - Repairs And Maintenance - Gene	$0	$0	$0
58110 - Parks Maintenance	1001 - General	5415 - Repairs And Maintenance - Spec	$1,499	$2,000	$2,000
58110 - Parks Maintenance	1001 - General	5417 - Repairs And Maintenance - Equi	$4,787	$7,000	$14,400
58110 - Parks Maintenance	1001 - General	5419 - Repairs And Maintenance - Radi	$1,106	$5,000	$4,000
58110 - Parks Maintenance	1001 - General	5421 - Repairs And Maintenance - Syste	$484,904	$684,423	$644,874
58110 - Parks Maintenance	1001 - General	5451 - Utility Charges - Telecommunica	$13,264	$15,350	$16,850
58110 - Parks Maintenance	1001 - General	5453 - Utility Charges - City Bills	$919,558	$903,453	$1,060,364
58110 - Parks Maintenance	1001 - General	5455 - Utility Charges - Other	$33,120	$36,000	$38,222
58110 - Parks Maintenance	1001 - General	5461 - Training And Development	$12,829	$8,900	$8,400
58110 - Parks Maintenance	1001 - General	5471 - Membership	$930	$750	$750
58110 - Parks Maintenance	1001 - General	5510 - Automotive - vehicle usage	$215,692	$220,785	$230,002
58110 - Parks Maintenance	1001 - General	5512 - Automotive - replacement	$244,376	$279,909	$292,560
58110 - Parks Maintenance	1001 - General	5514 - Automotive - pooled vehicle usa	$940	$1,800	$1,800
58110 - Parks Maintenance	1001 - General	5516 - Automotive - vehicle shortage	$0	$0	$145,272
58110 - Parks Maintenance	1001 - General	5520 - Facility - services - fixed	$0	$67,427	$83,041
58110 - Parks Maintenance	1001 - General	5526 - Facility - shared utility - fixed	$0	$43,567	$46,583
58110 - Parks Maintenance	1001 - General	5528 - Facility - rehab - fixed	$0	$65,569	$111,375
58110 - Parks Maintenance	1001 - General	5530 - Equipment replacement	$0	$5,484	$8,659
58110 - Parks Maintenance	1001 - General	5550 - CFD LLD Admin Fees - Other	$0	$73,859	$0
58110 - Parks Maintenance	1001 - General	5566 - Special Assessments	$8,541	$8,541	$8,533
58110 - Parks Maintenance	1001 - General	5582 - Other Fees	$0	$0	$43,464
58110 - Parks Maintenance	1001 - General	5585 - Miscellaneous	$92,468	$0	$0
58110 - Parks Maintenance	1001 - General	5912 - Reimbursed Cost - Received	$0	$0	($464,221)
58110 - Parks Maintenance	1001 - General	5980 - Internal Labor - Raw Cost Reimb	($357,418)	($397,526)	$0
58110 - Parks Maintenance	1001 - General	6550 - Capital Outlay - Equipment	$0	$10,000	$0
58110 - Parks Maintenance	3410 - Al Johnson Wildlife Area	5301 - Professional Services	$26,436	$0	$0
58110 - Parks Maintenance	3410 - Al Johnson Wildlife Area	5421 - Repairs And Maintenance - Syste	$21,949	$0	$0
58110 - Parks Maintenance	3410 - Al Johnson Wildlife Area	6550 - Capital Outlay - Equipment	$0	$70,000	$0

City of Roseville
Parks Maintenance Budget

Center	Fund	Account	FY2018-19 Actual Final	FY2019-20 Amended Budget	FY2020-21 Working Budget
			$6,529,186	$7,366,702	$8,039,911

City of Roseville
Open Space Budget

Center	Fund	Account	FY2018-19 Actual Final	FY2019-20 Amended Budget	FY2020-21 Working Budget
58120 - Open Space	1001 - General	5001 - Salaries	$358,068	$473,476	$493,530
58120 - Open Space	1001 - General	5005 - Overtime	$3,109	$2,865	$2,922
58120 - Open Space	1001 - General	5030 - Longevity Pay	$1,883	$1,497	$6,085
58120 - Open Space	1001 - General	5045 - Leave Payoffs	$13,931	$7,721	$12,827
58120 - Open Space	1001 - General	5050 - Temporary - 1000 Hr Salaries	$96,684	$160,864	$149,577
58120 - Open Space	1001 - General	5053 - Temporary - 1500 Hr Salaries	$252,199	$329,042	$358,907
58120 - Open Space	1001 - General	5070 - Vacancy Factor	$0	($54,324)	($53,747)
58120 - Open Space	1001 - General	5080 - Internal Project Labor	$1,530	$0	$0
58120 - Open Space	1001 - General	5090 - Accrued Salaries	($2,857)	$0	$0
58120 - Open Space	1001 - General	5101 - Benefit - Medical Insurance	$59,756	$90,443	$113,977
58120 - Open Space	1001 - General	5104 - Benefit - Dental Insurance	$6,565	$10,803	$0
58120 - Open Space	1001 - General	5106 - Benefit - Vision Insurance	$548	$1,065	$0
58120 - Open Space	1001 - General	5108 - Benefit - Long Term Disability - C	$94	$822	$883
58120 - Open Space	1001 - General	5110 - Benefit - Long Term Disability	$89	$0	$0
58120 - Open Space	1001 - General	5112 - Benefit - Life Insurance	$1,305	$1,358	$1,288
58120 - Open Space	1001 - General	5116 - Uniform Allowance	$1,312	$2,600	$2,600
58120 - Open Space	1001 - General	5120 - Pers - City	$45,856	$61,237	$60,879
58120 - Open Space	1001 - General	5122 - Pers - Employee	$18,106	$29,434	$0
58120 - Open Space	1001 - General	5124 - OPEB Contribution Benefit	$22,378	$30,265	$31,263
58120 - Open Space	1001 - General	5128 - PERS - UAL	$102,288	$130,945	$142,723
58120 - Open Space	1001 - General	5138 - Deferred Compensation	$8,245	$8,272	$10,374
58120 - Open Space	1001 - General	5150 - Medicare	$10,538	$14,182	$8,930
58120 - Open Space	1001 - General	5154 - State Unemployment Insurance	$893	$1,223	$770
58120 - Open Space	1001 - General	5201 - Fuel	$27,165	$35,204	$38,724
58120 - Open Space	1001 - General	5301 - Professional Services	$323,183	$704,012	$690,853
58120 - Open Space	1001 - General	5389 - Printing	$82	$700	$700
58120 - Open Space	1001 - General	5391 - Postage	$0	$300	$300
58120 - Open Space	1001 - General	5395 - Equipment - Under 5000	$2,824	$6,000	$6,000
58120 - Open Space	1001 - General	5401 - Building And Equipment Rental	$3,263	$6,500	$6,500
58120 - Open Space	1001 - General	5403 - Safety And Protective Gear	$10,392	$9,000	$9,000
58120 - Open Space	1001 - General	5411 - Repairs And Maintenance - Gene	$0	$0	$0
58120 - Open Space	1001 - General	5415 - Repairs And Maintenance - Spec	$2,024	$3,000	$3,000
58120 - Open Space	1001 - General	5417 - Repairs And Maintenance - Equi	$4,863	$5,000	$5,000
58120 - Open Space	1001 - General	5421 - Repairs And Maintenance - Syste	$11,450	$38,294	$20,000
58120 - Open Space	1001 - General	5451 - Utility Charges - Telecommunica	$4,949	$4,505	$4,505
58120 - Open Space	1001 - General	5453 - Utility Charges - City Bills	$25,459	$27,000	$27,810
58120 - Open Space	1001 - General	5461 - Training And Development	$3,467	$3,600	$3,600
58120 - Open Space	1001 - General	5471 - Membership	$370	$490	$490
58120 - Open Space	1001 - General	5510 - Automotive - vehicle usage	$70,152	$70,433	$71,842
58120 - Open Space	1001 - General	5512 - Automotive - replacement	$104,994	$107,389	$111,498
58120 - Open Space	1001 - General	5514 - Automotive - pooled vehicle usa	$1,152	$1,000	$1,000
58120 - Open Space	1001 - General	5582 - Other Fees	$0	$0	$37,689
58120 - Open Space	1001 - General	5585 - Miscellaneous	$0	$0	$1,000
58120 - Open Space	1001 - General	5912 - Reimbursed Cost - Received	$0	$0	($512,651)
58120 - Open Space	1001 - General	5980 - Internal Labor - Raw Cost Reimb	($293,233)	($534,891)	$0
58120 - Open Space	2521 - Open Space	5080 - Internal Project Labor	$135,593	$232,003	$0
58120 - Open Space	2521 - Open Space	5201 - Fuel	$871	$1,500	$1,500
58120 - Open Space	2521 - Open Space	5301 - Professional Services	$351,737	$395,000	$409,000
58120 - Open Space	2521 - Open Space	5395 - Equipment - Under 5000	$293	$2,500	$2,500
58120 - Open Space	2521 - Open Space	5401 - Building And Equipment Rental	$1,094	$0	$0
58120 - Open Space	2521 - Open Space	5403 - Safety And Protective Gear	$129	$3,500	$3,500
58120 - Open Space	2521 - Open Space	5417 - Repairs And Maintenance - Equi	$1,692	$3,000	$3,000
58120 - Open Space	2521 - Open Space	5421 - Repairs And Maintenance - Syste	$11,944	$12,500	$20,000
58120 - Open Space	2521 - Open Space	5453 - Utility Charges - City Bills	$3,528	$5,000	$5,000
58120 - Open Space	2521 - Open Space	5461 - Training And Development	$985	$2,500	$0
58120 - Open Space	2521 - Open Space	5510 - Automotive - vehicle usage	$2,436	$2,436	$2,485
58120 - Open Space	2521 - Open Space	5512 - Automotive - replacement	$2,526	$2,532	$2,532
58120 - Open Space	2521 - Open Space	5911 - Reimbursed Cost - Charged	$0	$0	$213,128
58120 - Open Space	2541 - Native Oak Tree Propaga	5080 - Internal Project Labor	$51,591	$107,181	$0
58120 - Open Space	2541 - Native Oak Tree Propaga	5301 - Professional Services	$11,790	$70,000	$50,000
58120 - Open Space	2541 - Native Oak Tree Propaga	5389 - Printing	$0	$5,000	$5,000
58120 - Open Space	2541 - Native Oak Tree Propaga	5391 - Postage	$16	$250	$250
58120 - Open Space	2541 - Native Oak Tree Propaga	5395 - Equipment - Under 5000	$3,936	$15,000	$15,000
58120 - Open Space	2541 - Native Oak Tree Propaga	5401 - Building And Equipment Rental	$1,026	$5,000	$5,000
58120 - Open Space	2541 - Native Oak Tree Propaga	5403 - Safety And Protective Gear	$399	$4,000	$4,000
58120 - Open Space	2541 - Native Oak Tree Propaga	5417 - Repairs And Maintenance - Equi	$0	$3,500	$3,500
58120 - Open Space	2541 - Native Oak Tree Propaga	5421 - Repairs And Maintenance - Syste	$27,434	$20,000	$25,000
58120 - Open Space	2541 - Native Oak Tree Propaga	5461 - Training And Development	$1,707	$2,500	$3,500

City of Roseville
Open Space Budget

Center	Fund	Account	FY2018-19 Actual Final	FY2019-20 Amended Budget	FY2020-21 Working Budget
58120 - Open Space	2541 - Native Oak Tree Propaga	5471 - Membership	$0	$500	$500
58120 - Open Space	2541 - Native Oak Tree Propaga	5514 - Automotive - pooled vehicle usa	$0	$1,000	$1,000
58120 - Open Space	2541 - Native Oak Tree Propaga	5911 - Reimbursed Cost - Charged	$0	$0	$104,858
58120 - Open Space	2545 - Non-Native Tree Propag	5080 - Internal Project Labor	$24,259	$107,181	$0
58120 - Open Space	2545 - Non-Native Tree Propag	5301 - Professional Services	$0	$65,000	$50,000
58120 - Open Space	2545 - Non-Native Tree Propag	5389 - Printing	$0	$2,500	$2,500
58120 - Open Space	2545 - Non-Native Tree Propag	5395 - Equipment - Under 5000	$1,995	$10,000	$10,000
58120 - Open Space	2545 - Non-Native Tree Propag	5401 - Building And Equipment Rental	$0	$2,500	$2,500
58120 - Open Space	2545 - Non-Native Tree Propag	5403 - Safety And Protective Gear	$533	$2,500	$2,500
58120 - Open Space	2545 - Non-Native Tree Propag	5421 - Repairs And Maintenance - Syste	$11,668	$20,000	$20,000
58120 - Open Space	2545 - Non-Native Tree Propag	5461 - Training And Development	$3,130	$5,300	$3,500
58120 - Open Space	2545 - Non-Native Tree Propag	5471 - Membership	$800	$600	$600
58120 - Open Space	2545 - Non-Native Tree Propag	5911 - Reimbursed Cost - Charged	$0	$0	$104,858
58120 - Open Space	3410 - Al Johnson Wildlife Area	6550 - Capital Outlay - Equipment	$0	$0	$70,000
			$1,958,188	$2,903,309	$3,017,359

City of Roseville
Service District Budget

Center	Fund	Account	FY2018-19 Actual Final	FY2019-20 Amended Budget	FY2020-21 Working Budget
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5312 - Contract Services - Landscapes	$6,751	$15,278	$16,751
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5423 - Repairs And Maintenance - Landscape	$3,470	$8,000	$14,858
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5453 - Utility Charges - City Bills	$8,479	$9,600	$9,600
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5550 - CFD LLD Admin Fees - Other	$2,893	$3,849	$1,053
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5552 - CFD LLD Admin Fees - City	$3,639	$6,078	$911
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5558 - CFD LLD Admin Fees - County	$409	$1,363	$1,026
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5560 - CFD LLD Admin Fees - Parks	$5,839	$5,839	$5,839
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5562 - CFD LLD Admin Fees - Open Space	$2,031	$2,032	$2,031
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5564 - Sinking Fund Expenses	$5,682	$0	$12,213
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	5585 - Miscellaneous	$0	$116	$120
80251 - Services Districts	2101 - North Roseville CFD 2 SD Zone A	6801 - Transfers Out - Operating	$19,491	$20,654	$21,273
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5312 - Contract Services - Landscapes	$26,249	$28,585	$30,380
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5423 - Repairs And Maintenance - Landscape	$17,465	$20,000	$13,725
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5453 - Utility Charges - City Bills	$15,295	$18,700	$18,701
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5550 - CFD LLD Admin Fees - Other	$2,672	$2,201	$1,674
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5552 - CFD LLD Admin Fees - City	$3,361	$3,478	$1,731
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5558 - CFD LLD Admin Fees - County	$714	$1,719	$1,140
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5560 - CFD LLD Admin Fees - Parks	$5,393	$5,394	$5,393
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5562 - CFD LLD Admin Fees - Open Space	$1,876	$1,877	$1,876
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5564 - Sinking Fund Expenses	$0	$0	$19,192
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	5585 - Miscellaneous	$0	$107	$110
80251 - Services Districts	2102 - North Roseville CFD 2 SD Zone B	6801 - Transfers Out - Operating	$11,254	$12,327	$12,697
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5312 - Contract Services - Landscapes	$63,739	$58,986	$63,110
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5423 - Repairs And Maintenance - Landscape	$34,468	$36,000	$34,445
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5453 - Utility Charges - City Bills	$30,923	$39,000	$39,001
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5550 - CFD LLD Admin Fees - Other	$6,707	$582	$4,208
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5552 - CFD LLD Admin Fees - City	$8,436	$920	$4,705
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5558 - CFD LLD Admin Fees - County	$2,397	$3,683	$2,840
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5560 - CFD LLD Admin Fees - Parks	$13,536	$13,536	$13,536
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5562 - CFD LLD Admin Fees - Open Space	$4,709	$4,710	$4,709
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5564 - Sinking Fund Expenses	$0	$0	$26,534
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	5585 - Miscellaneous	$0	$269	$275
80251 - Services Districts	2103 - North Roseville CFD 2 SD Zone C	6801 - Transfers Out - Operating	$28,243	$30,936	$31,864
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5312 - Contract Services - Landscapes	$193,203	$195,540	$201,407
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5423 - Repairs And Maintenance - Landscape	$47,335	$90,000	$70,000
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5453 - Utility Charges - City Bills	$51,531	$65,000	$68,000
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5455 - Utility Charges - Other	$72,004	$70,000	$75,000
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5550 - CFD LLD Admin Fees - Other	$11,195	$7,380	$7,661
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5552 - CFD LLD Admin Fees - City	$26,445	$21,396	$11,204
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5558 - CFD LLD Admin Fees - County	$7,132	$5,602	$9,580
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5560 - CFD LLD Admin Fees - Parks	$45,900	$45,900	$45,900
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5562 - CFD LLD Admin Fees - Open Space	$11,000	$11,000	$11,000
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5564 - Sinking Fund Expenses	$6,448	$20,000	$45,000
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	5585 - Miscellaneous	$0	$1,000	$1,000
80251 - Services Districts	2104 - Stoneridge CFD 1 SD	6801 - Transfers Out - Operating	$145,953	$151,954	$156,513
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	5312 - Contract Services - Landscapes	$8,622	$8,832	$9,097
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	5423 - Repairs And Maintenance - Landscape	$4,999	$2,000	$2,000
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	5453 - Utility Charges - City Bills	$9,987	$14,700	$15,000
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	5550 - CFD LLD Admin Fees - Other	$2,771	$2,261	$2,351
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	5552 - CFD LLD Admin Fees - City	$959	$858	$734
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	5558 - CFD LLD Admin Fees - County	$286	$367	$567
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	$2,000	$2,000	$2,000
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	5564 - Sinking Fund Expenses	$0	$15,000	$5,000
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	5585 - Miscellaneous	$0	$100	$100
80251 - Services Districts	2105 - Stoneridge Parcel 1 CFD 2 SD	6801 - Transfers Out - Operating	$929	$930	$957
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5312 - Contract Services - Landscapes	$140,125	$143,200	$150,478
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5423 - Repairs And Maintenance - Landscape	$60,545	$64,000	$45,000
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5453 - Utility Charges - City Bills	$72,480	$89,410	$90,000
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5550 - CFD LLD Admin Fees - Other	$10,319	$5,968	$6,195
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5552 - CFD LLD Admin Fees - City	$17,250	$12,598	$8,622
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5558 - CFD LLD Admin Fees - County	$4,199	$4,311	$5,565
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	$23,800	$23,800	$23,800
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5562 - CFD LLD Admin Fees - Open Space	$7,800	$7,800	$7,800
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5564 - Sinking Fund Expenses	$0	$0	$96,000
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	5585 - Miscellaneous	$0	$1,000	$1,000
80251 - Services Districts	2106 - Woodcreek West CFD 2 SD	6801 - Transfers Out - Operating	$50,982	$54,983	$56,633
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5080 - Internal Project Labor	$45,723	$48,600	$0

City of Roseville
Service District Budget

Center	Fund	Account	FY2018-19 Actual Final	FY2019-20 Amended Budget	FY2020-21 Working Budget
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5312 - Contract Services - Landscapes	$100,041	$84,000	$86,360
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5314 - Contract Services - Parks	$47,807	$43,248	$44,546
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5421 - Repairs And Maintenance - System	$920	$0	$0
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5423 - Repairs And Maintenance - Landscape	$69,379	$90,000	$90,000
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5453 - Utility Charges - City Bills	$92,645	$119,500	$120,000
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5550 - CFD LLD Admin Fees - Other	$13,707	$6,203	$6,441
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5552 - CFD LLD Admin Fees - City	$26,374	$25,288	$12,456
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5558 - CFD LLD Admin Fees - County	$8,429	$6,228	$9,973
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	$40,000	$40,000	$40,000
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5562 - CFD LLD Admin Fees - Open Space	$13,300	$13,300	$13,300
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5564 - Sinking Fund Expenses	$7,654	$35,000	$103,700
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5585 - Miscellaneous	$0	$1,000	$1,000
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	5911 - Reimbursed Cost - Charged	$0	$0	$51,843
80251 - Services Districts	2107 - Highland Reserve North CFD 2 SD	6801 - Transfers Out - Operating	$87,577	$78,729	$81,091
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5080 - Internal Project Labor	$20,433	$21,378	$0
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5312 - Contract Services - Landscapes	$63,127	$55,488	$57,153
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5314 - Contract Services - Parks	$27,792	$21,300	$21,939
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5423 - Repairs And Maintenance - Landscape	$31,149	$50,000	$50,000
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5453 - Utility Charges - City Bills	$32,573	$45,000	$45,000
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5550 - CFD LLD Admin Fees - Other	$12,863	$5,868	$6,095
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5552 - CFD LLD Admin Fees - City	$11,673	$11,509	$5,746
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5558 - CFD LLD Admin Fees - County	$3,836	$2,874	$5,248
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	$24,440	$24,440	$24,440
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5562 - CFD LLD Admin Fees - Open Space	$2,600	$2,600	$2,600
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5564 - Sinking Fund Expenses	$0	$20,000	$20,000
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5585 - Miscellaneous	$0	$1,000	$1,000
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	5911 - Reimbursed Cost - Charged	$0	$0	$22,561
80251 - Services Districts	2108 - Crocker Ranch CFD 2 SD	6801 - Transfers Out - Operating	19947	29948	30846
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5080 - Internal Project Labor	14221	16200	0
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5312 - Contract Services - Landscapes	37486	44796	46140
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5314 - Contract Services - Parks	11609	12000	12360
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5423 - Repairs And Maintenance - Landscape	15960	25000	15000
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5453 - Utility Charges - City Bills	18212	24000	24000
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5550 - CFD LLD Admin Fees - Other	5948	3247	3374
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5552 - CFD LLD Admin Fees - City	7146	6604	3094
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5558 - CFD LLD Admin Fees - County	2201	1722	2434
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	7900	7900	7900
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5562 - CFD LLD Admin Fees - Open Space	7000	7000	7000
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5564 - Sinking Fund Expenses	0	0	25000
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5585 - Miscellaneous	0	1000	1000
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	5911 - Reimbursed Cost - Charged	0	0	17281
80251 - Services Districts	2109 - Woodcreek East CFD 2 SD	6801 - Transfers Out - Operating	19674	22676	23356
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5080 - Internal Project Labor	11350	16200	0
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5312 - Contract Services - Landscapes	1266	2532	2608
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5314 - Contract Services - Parks	7726	8220	8467
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5316 - Contract Services - Entryways	1266	0	0
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5423 - Repairs And Maintenance - Landscape	4781	4500	4500
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5453 - Utility Charges - City Bills	4314	6000	6000
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5550 - CFD LLD Admin Fees - Other	6803	3009	3128
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5552 - CFD LLD Admin Fees - City	3114	2117	1709
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5558 - CFD LLD Admin Fees - County	706	855	1186
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	4200	4200	4200
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5562 - CFD LLD Admin Fees - Open Space	2450	2450	2450
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5564 - Sinking Fund Expenses	0	0	1000

City of Roseville
Service District Budget

Center	Fund	Account	FY2018-19 Actual Final	FY2019-20 Amended Budget	FY2020-21 Working Budget
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5585 - Miscellaneous	0	1000	1000
80251 - Services Districts	2110 - Stone Point CFD 2 SD	5911 - Reimbursed Cost - Charged	0	0	17281
80251 - Services Districts	2110 - Stone Point CFD 2 SD	6801 - Transfers Out - Operating	31675	34676	35716
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5080 - Internal Project Labor	85125	107922	0
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5312 - Contract Services - Landscapes	349686	400000	407140
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5314 - Contract Services - Parks	91417	120000	104442
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5423 - Repairs And Maintenance - Landscape	98237	110000	120000
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5453 - Utility Charges - City Bills	114688	160000	145000
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5550 - CFD LLD Admin Fees - Other	4473	8173	8608
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5552 - CFD LLD Admin Fees - City	48418	38832	18070
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5558 - CFD LLD Admin Fees - County	12944	11750	18754
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5560 - CFD LLD Admin Fees - Parks	58800	58800	58800
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5562 - CFD LLD Admin Fees - Open Space	2600	2600	2600
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5564 - Sinking Fund Expenses	22875	40000	50000
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5585 - Miscellaneous	0	1000	1000
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	5911 - Reimbursed Cost - Charged	0	0	137355
80251 - Services Districts	2111 - Fiddyment Ranch CFD 2 SD Public Servic	6801 - Transfers Out - Operating	105829	115830	119279
80251 - Services Districts	2112 - Municipal Services District CFD 3 SD	5550 - CFD LLD Admin Fees - Other	14268	13423	14114
80251 - Services Districts	2112 - Municipal Services District CFD 3 SD	5552 - CFD LLD Admin Fees - City	124493	115600	87592
80251 - Services Districts	2112 - Municipal Services District CFD 3 SD	5558 - CFD LLD Admin Fees - County	38529	43796	49500
80251 - Services Districts	2112 - Municipal Services District CFD 3 SD	5585 - Miscellaneous	39	1000	1000
80251 - Services Districts	2112 - Municipal Services District CFD 3 SD	6801 - Transfers Out - Operating	3650876	4205739	4797607
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5080 - Internal Project Labor	125528	132498	0
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5312 - Contract Services - Landscapes	348510	350000	357662
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5314 - Contract Services - Parks	45818	55000	112469
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5423 - Repairs And Maintenance - Landscape	98440	100000	100000
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5453 - Utility Charges - City Bills	100570	126415	135000
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5510 - Automotive - vehicle usage	0	1225	1836
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5512 - Automotive - replacement	0	2780	4170
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5516 - Automotive - vehicle shortage	0	25000	0
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5550 - CFD LLD Admin Fees - Other	4740	8706	9075
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5552 - CFD LLD Admin Fees - City	38845	35533	20016
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5558 - CFD LLD Admin Fees - County	11844	10480	18979
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5560 - CFD LLD Admin Fees - Parks	66200	66200	66200
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5562 - CFD LLD Admin Fees - Open Space	3800	3800	3800
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5564 - Sinking Fund Expenses	118396	15000	55000
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5585 - Miscellaneous	0	1000	1000
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	5911 - Reimbursed Cost - Charged	0	0	154894
80251 - Services Districts	2113 - Westpark CFD 2 SD Public Services	6801 - Transfers Out - Operating	107804	139360	143515
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5080 - Internal Project Labor	15723	16200	0
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5312 - Contract Services - Landscapes	23568	24720	25462
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5314 - Contract Services - Parks	20056	16200	16612
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5423 - Repairs And Maintenance - Landscape	7805	13000	13000
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5453 - Utility Charges - City Bills	11216	15500	15500
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5550 - CFD LLD Admin Fees - Other	4215	3297	3424
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5552 - CFD LLD Admin Fees - City	5105	3492	2205
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5558 - CFD LLD Admin Fees - County	1164	1113	3299
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	8250	8250	8250
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5562 - CFD LLD Admin Fees - Open Space	1000	1000	1000
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5564 - Sinking Fund Expenses	16724	20000	30000
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5585 - Miscellaneous	0	1000	1000
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	5911 - Reimbursed Cost - Charged	0	0	17281
80251 - Services Districts	2114 - Longmeadow CFD 2 SD	6801 - Transfers Out - Operating	4386	5387	5548
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5312 - Contract Services - Landscapes	16171	17240	17956

City of Roseville
Service District Budget

Center	Fund	Account	FY2018-19 Actual Final	FY2019-20 Amended Budget	FY2020-21 Working Budget
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5423 - Repairs And Maintenance - Landscape	3337	6100	7100
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5453 - Utility Charges - City Bills	11597	14500	14500
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5550 - CFD LLD Admin Fees - Other	2688	3954	4785
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5552 - CFD LLD Admin Fees - City	3520	2323	2405
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5558 - CFD LLD Admin Fees - County	611	1675	1930
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5560 - CFD LLD Admin Fees - Parks	2700	2700	2700
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5562 - CFD LLD Admin Fees - Open Space	3000	3000	3000
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5564 - Sinking Fund Expenses	2228	51500	54825
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	5585 - Miscellaneous	25	0	25
80251 - Services Districts	2115 - Infill Services District CFD 4 SD	6801 - Transfers Out - Operating	35857	38859	40027
80251 - Services Districts	2116 - Infill Services District CFD 4 Annex 4 SD	5550 - CFD LLD Admin Fees - Other	1792	2984	2451
80251 - Services Districts	2116 - Infill Services District CFD 4 Annex 4 SD	5552 - CFD LLD Admin Fees - City	2347	1753	1217
80251 - Services Districts	2116 - Infill Services District CFD 4 Annex 4 SD	5558 - CFD LLD Admin Fees - County	747	1357	989
80251 - Services Districts	2116 - Infill Services District CFD 4 Annex 4 SD	5562 - CFD LLD Admin Fees - Open Space	7800	7800	7800
80251 - Services Districts	2116 - Infill Services District CFD 4 Annex 4 SD	6801 - Transfers Out - Operating	48714	48715	50176
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5080 - Internal Project Labor	19116	16200	0
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5312 - Contract Services - Landscapes	4458	6420	6613
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5314 - Contract Services - Parks	10392	11052	11384
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5423 - Repairs And Maintenance - Landscape	240	6000	6000
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5453 - Utility Charges - City Bills	1204	7200	7200
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5550 - CFD LLD Admin Fees - Other	6177	3009	3128
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5552 - CFD LLD Admin Fees - City	2014	1336	1045
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5558 - CFD LLD Admin Fees - County	445	523	916
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5560 - CFD LLD Admin Fees - Parks	2000	2000	2000
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5562 - CFD LLD Admin Fees - Open Space	250	250	250
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5564 - Sinking Fund Expenses	0	5000	1000
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5585 - Miscellaneous	0	1000	1000
80251 - Services Districts	2117 - Stone Point CFD 4 SD	5911 - Reimbursed Cost - Charged	0	0	17281
80251 - Services Districts	2117 - Stone Point CFD 4 SD	6801 - Transfers Out - Operating	11429	13431	13833
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5312 - Contract Services - Landscapes	5357	12121	8661
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5423 - Repairs And Maintenance - Landscape	785	5000	972
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5453 - Utility Charges - City Bills	3758	7000	3520
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5550 - CFD LLD Admin Fees - Other	190	423	385
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5552 - CFD LLD Admin Fees - City	239	668	404
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5558 - CFD LLD Admin Fees - County	194	448	207
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5560 - CFD LLD Admin Fees - Parks	382	383	382
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5562 - CFD LLD Admin Fees - Open Space	133	133	133
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5564 - Sinking Fund Expenses	0	0	1696
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	5585 - Miscellaneous	0	8	10
80251 - Services Districts	2118 - North Roseville CFD 2 SD Zone E	6801 - Transfers Out - Operating	798	874	900
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5312 - Contract Services - Landscapes	81768	75000	131192
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5314 - Contract Services - Parks	0	0	18941
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5423 - Repairs And Maintenance - Landscape	5030	15000	15000
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5453 - Utility Charges - City Bills	3331	10000	17000
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5550 - CFD LLD Admin Fees - Other	5266	6962	7085
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5552 - CFD LLD Admin Fees - City	9745	3710	102
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5558 - CFD LLD Admin Fees - County	1235	1177	3503
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	5320	5320	5320
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5585 - Miscellaneous	68	500	650
80251 - Services Districts	2119 - Westbrook Services District CFD 2 SD	5911 - Reimbursed Cost - Charged	0	0	5563
80251 - Services Districts	2120 - HP Campus Oaks CFD 2 SD	5312 - Contract Services - Landscapes	0	20000	8000
80251 - Services Districts	2120 - HP Campus Oaks CFD 2 SD	5423 - Repairs And Maintenance - Landscape	0	2500	1500
80251 - Services Districts	2120 - HP Campus Oaks CFD 2 SD	5453 - Utility Charges - City Bills	0	5000	2500
80251 - Services Districts	2120 - HP Campus Oaks CFD 2 SD	5550 - CFD LLD Admin Fees - Other	5430	5943	6196

City of Roseville
Service District Budget

Center	Fund	Account	FY2018-19 Actual Final	FY2019-20 Amended Budget	FY2020-21 Working Budget
80251 - Services Districts	2120 - HP Campus Oaks CFD 2 SD	5552 - CFD LLD Admin Fees - City	5451	2468	49
80251 - Services Districts	2120 - HP Campus Oaks CFD 2 SD	5558 - CFD LLD Admin Fees - County	822	386	38
80251 - Services Districts	2120 - HP Campus Oaks CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	1771	1772	1772
80251 - Services Districts	2120 - HP Campus Oaks CFD 2 SD	5585 - Miscellaneous	0	500	500
80251 - Services Districts	2120 - HP Campus Oaks CFD 2 SD	6801 - Transfers Out - Operating	0	0	2000
80251 - Services Districts	2122 - Sierra Vista Services District CFD 2 SD	5312 - Contract Services - Landscapes	0	60000	90000
80251 - Services Districts	2122 - Sierra Vista Services District CFD 2 SD	5423 - Repairs And Maintenance - Landscape	0	10000	10000
80251 - Services Districts	2122 - Sierra Vista Services District CFD 2 SD	5453 - Utility Charges - City Bills	0	10000	10000
80251 - Services Districts	2122 - Sierra Vista Services District CFD 2 SD	5550 - CFD LLD Admin Fees - Other	0	6015	6340
80251 - Services Districts	2122 - Sierra Vista Services District CFD 2 SD	5552 - CFD LLD Admin Fees - City	0	2500	3205
80251 - Services Districts	2122 - Sierra Vista Services District CFD 2 SD	5558 - CFD LLD Admin Fees - County	0	1602	1968
80251 - Services Districts	2122 - Sierra Vista Services District CFD 2 SD	5560 - CFD LLD Admin Fees - Parks	0	4350	4350
80251 - Services Districts	2122 - Sierra Vista Services District CFD 2 SD	5585 - Miscellaneous	0	0	250
			$8,754,253	$9,947,379	$11,000,095

City of Roseville
Street Sweeping Budget

Center	Fund	Account	FY2020-21 Working Budget
62345 - Street Sweeping	6301 - Waste Services Operations	5001 - Salaries	$356,727
62345 - Street Sweeping	6301 - Waste Services Operations	5005 - Overtime	$19,024
62345 - Street Sweeping	6301 - Waste Services Operations	5020 - Holiday Pay	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5025 - Standby Pay	$2,550
62345 - Street Sweeping	6301 - Waste Services Operations	5030 - Longevity Pay	$7,139
62345 - Street Sweeping	6301 - Waste Services Operations	5035 - Certificate Pay	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5045 - Leave Payoffs	$6,976
62345 - Street Sweeping	6301 - Waste Services Operations	5080 - Internal Project Labor	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5090 - Accrued Salaries	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5101 - Benefit - Medical Insurance	$58,667
62345 - Street Sweeping	6301 - Waste Services Operations	5102 - Benefit - Health Insurance Buyout	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5104 - Benefit - Dental Insurance	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5106 - Benefit - Vision Insurance	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5108 - Benefit - Long Term Disability - City Paid	$720
62345 - Street Sweeping	6301 - Waste Services Operations	5110 - Benefit - Long Term Disability	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5112 - Benefit - Life Insurance	$881
62345 - Street Sweeping	6301 - Waste Services Operations	5114 - Overtime Meals	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5116 - Uniform Allowance	$2,700
62345 - Street Sweeping	6301 - Waste Services Operations	5120 - Pers - City	$41,802
62345 - Street Sweeping	6301 - Waste Services Operations	5122 - Pers - Employee	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5124 - OPEB Contribution Benefit	$25,044
62345 - Street Sweeping	6301 - Waste Services Operations	5128 - PERS - UAL	$79,736
62345 - Street Sweeping	6301 - Waste Services Operations	5132 - Compensated Absences	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5138 - Deferred Compensation	$7,752
62345 - Street Sweeping	6301 - Waste Services Operations	5150 - Medicare	$5,860
62345 - Street Sweeping	6301 - Waste Services Operations	5154 - State Unemployment Insurance	$505
62345 - Street Sweeping	6301 - Waste Services Operations	5201 - Fuel	$84,000
62345 - Street Sweeping	6301 - Waste Services Operations	5301 - Professional Services	$125,000
62345 - Street Sweeping	6301 - Waste Services Operations	5351 - Office Supplies	$300
62345 - Street Sweeping	6301 - Waste Services Operations	5389 - Printing	$300
62345 - Street Sweeping	6301 - Waste Services Operations	5395 - Equipment - Under 5000	$2,000
62345 - Street Sweeping	6301 - Waste Services Operations	5403 - Safety And Protective Gear	$2,500
62345 - Street Sweeping	6301 - Waste Services Operations	5415 - Repairs And Maintenance - Special Vehicle	$7,500
62345 - Street Sweeping	6301 - Waste Services Operations	5417 - Repairs And Maintenance - Equipment	$1,000
62345 - Street Sweeping	6301 - Waste Services Operations	5421 - Repairs And Maintenance - System	$1,500
62345 - Street Sweeping	6301 - Waste Services Operations	5453 - Utility Charges - City Bills	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5461 - Training And Development	$500
62345 - Street Sweeping	6301 - Waste Services Operations	5491 - General Liability Insurance (fixed)	$6,392
62345 - Street Sweeping	6301 - Waste Services Operations	5495 - Workers Compensation Insurance (fixed)	$15,689
62345 - Street Sweeping	6301 - Waste Services Operations	5510 - Automotive - vehicle usage	$177,000
62345 - Street Sweeping	6301 - Waste Services Operations	5512 - Automotive - replacement	$273,500
62345 - Street Sweeping	6301 - Waste Services Operations	5514 - Automotive - pooled vehicle usage	$500
62345 - Street Sweeping	6301 - Waste Services Operations	5532 - IT - services - fixed	$18,529
62345 - Street Sweeping	6301 - Waste Services Operations	5540 - IT - replacement - fixed	$0
62345 - Street Sweeping	6301 - Waste Services Operations	5585 - Miscellaneous	$0
			$1,332,293

City of Roseville
Street Drainage Budget

Center	Account	FY2020-21 Working Budget	Adjustment	FY2020-21 Working Budget	Comments
62310 - Street Drainage	5001 - Salaries	$180,700		$180,700	
62310 - Street Drainage	5005 - Overtime	$5,343		$5,343	
62310 - Street Drainage	5025 - Standby Pay	$6,120		$6,120	
62310 - Street Drainage	5030 - Longevity Pay	$1,983		$1,983	
62310 - Street Drainage	5045 - Leave Payoffs	$4,836		$4,836	
62310 - Street Drainage	5070 - Vacancy Factor	($12,434)		($12,434)	
62310 - Street Drainage	5080 - Internal Project Labor	$0		$0	
62310 - Street Drainage	5090 - Accrued Salaries	$0		$0	
62310 - Street Drainage	5101 - Benefit - Medical Insurance	$43,059		$43,059	
62310 - Street Drainage	5104 - Benefit - Dental Insurance	$0		$0	
62310 - Street Drainage	5106 - Benefit - Vision Insurance	$0		$0	
62310 - Street Drainage	5108 - Benefit - Long Term Disability - City Paid	$229		$229	
62310 - Street Drainage	5110 - Benefit - Long Term Disability	$0		$0	
62310 - Street Drainage	5112 - Benefit - Life Insurance	$489		$489	
62310 - Street Drainage	5114 - Overtime Meals	$0		$0	
62310 - Street Drainage	5116 - Uniform Allowance	$1,600		$1,600	
62310 - Street Drainage	5120 - Pers - City	$22,669		$22,669	
62310 - Street Drainage	5122 - Pers - Employee	$0		$0	
62310 - Street Drainage	5124 - OPEB Contribution Benefit	$11,641		$11,641	
62310 - Street Drainage	5128 - PERS - UAL	$37,729		$37,729	
62310 - Street Drainage	5138 - Deferred Compensation	$3,221		$3,221	
62310 - Street Drainage	5150 - Medicare	$3,385		$3,385	
62310 - Street Drainage	5154 - State Unemployment Insurance	$292		$292	
62310 - Street Drainage	5201 - Fuel	$28,023	($28,023)	$0	Fuel for drainage maintenance equipment and vehicles - BW 02.13.20
62310 - Street Drainage	5220 - Chemicals	$4,500		$4,500	Herbicides for spraying drainage facilities and outfalls - BW 02.13.20
62310 - Street Drainage	5301 - Professional Services	$32,130		$32,130	Fees for disposal debris for maintenance activities (9,000). Annual Zonar costs (2,750). ARCGIS and ARDFM data model (7,500). CDFW & VRF (5,000). Weed abatement (8,000) - BW 02.13.20
62310 - Street Drainage	5351 - Office Supplies	$150		$150	Purchase of paper, pens and miscellaneous office supplies - BW 02.13.20
62310 - Street Drainage	5389 - Printing	$200		$200	Daily worksheets, vehicle inspection reports and miscellaneous printing - BW 02.13.20
62310 - Street Drainage	5395 - Equipment - Under 5000	$3,500		$3,500	Purchase of jackhammer bits, concrete saw blades and miscellaneous tools - BW 02.13-20
62310 - Street Drainage	5401 - Building And Equipment Rental	$7,500	($7,500)	$0	Rental equipment to maintain drainage structures - BW 02.13.20
62310 - Street Drainage	5403 - Safety And Protective Gear	$5,000	($5,000)	$0	Purchase of PPE equipment for drainage personnel - BW 02.13.20
62310 - Street Drainage	5411 - Repairs And Maintenance - General	$79,479	($79,479)	$0	Repair and maintenance cost for drain inlets, pipelines, sidewalks, curbs and gutters (68,479). Pump station repair (11,000) - BW 02.13.20
62310 - Street Drainage	5415 - Repairs And Maintenance - Special Vehicle	$2,000	($2,000)	$0	Special maintenance to drainage equipment - BW 02.13.20
62310 - Street Drainage	5417 - Repairs And Maintenance - Equipment	$3,000	($3,000)	$0	Costs for service agreement to maintain concrete washout - BW 02.13.20

City of Roseville
Street Drainage Budget

Center	Account	FY2020-21 Working Budget	Adjustment	FY2020-21 Working Budget	Comments
62310 - Street Drainage	5421 - Repairs And Maintenance - System	$2,500		$2,500	Maintenance of small gas powered tools such as weedeaters and leaf blowers - BW 02.13.20
62310 - Street Drainage	5453 - Utility Charges - City Bills	$5,000	($5,000)	$0	Electricity charges for storm water pump stations - BW 02.13.20
62310 - Street Drainage	5461 - Training And Development	$3,000		$3,000	IMSA training, MSA training, trenching and shoring training. For local classes - BW 02.13.20
62310 - Street Drainage	5491 - General Liability Insurance (fixed)	$3,359		$3,359	FINANCE INPUT ONLY- DO NOT CHANGE BUDGET AMOUNT -JT 1-14-20
62310 - Street Drainage	5495 - Workers Compensation Insurance (fixed)	$5,022		$5,022	FINANCE INPUT ONLY- DO NOT CHANGE BUDGET AMOUNT -JT 1-14-20
62310 - Street Drainage	5510 - Automotive - vehicle usage	$56,880	($56,880)	$0	Annual cost for maintenance and routine repairs for drainage equipment and vehicles. Moving 00-648,00-833, 06-346, 15-240, 15-722, 17-205 from Paving cost center 62320 to Drainage cost center 62310 - BW 02.13.20
62310 - Street Drainage	5512 - Automotive - replacement	$132,285	($132,285)	$0	Current replacement cost for drainage equipment and vehicles. Moving 00-648, 00-833, 06-646, 15-240, 15-722, 17-205 from Paving cost center 62320 to Drainage cost center 62310 - BW 02.13.20
62310 - Street Drainage	5514 - Automotive - pooled vehicle usage	$500	($500)	$0	Charges for pool vehicle usage - BW 02.13.20
62310 - Street Drainage	5532 - IT - services - fixed	$13,239		$13,239	Annual Rate for IT Services - AC - 4.15.2020 - SP Upload on 4.16.20
62310 - Street Drainage	5540 - IT - replacement - fixed	$1,884		$1,884	Information Technology Replacement Fund - AC - 4.15.2020 - SP Upload on 4.16.20. SP Adjustment Upload on 4.20.20 SP.
		$700,013	($319,667)	$380,346	

NOTICE OF PUBLIC HEARING

Notice is hereby given that on **June 2, 2021** at 6 pm, or as soon thereafter as the matter may be heard, the **City Council** of the City of Roseville will hold a Public Hearing at **the City Council Chambers located at 311 Vernon Street, Roseville, CA** to consider adoption of a schedule of maintenance costs and charges for community facilities districts.

If adopted, the schedule of maintenance costs and charges will apply to formation of new Community Facilities Districts or annexation into an existing district, but will not affect previously established maximum tax rates in existing district boundaries or districts that have initiated proceedings, as of the date of adoption of the resolution, to establish maximum tax rates to finance maintenance services.

If adopted, the schedule of costs and charges will be effective upon adoption through June 30, 2022.

For further information contact the City's Assistant City Manager/Chief Financial Officer, Dennis Kauffman at (916) 774-5200. Written communications may be directed to: City Council, 311 Vernon Street, Roseville, CA 95678.

If you challenge the decision in court, you may be limited to raising only those issues you or someone else raised at the Public Hearing described in this notice, or in written correspondence delivered to the City Clerk at, or prior to the Public Hearing.

ROSEVILLE CITY COUNCIL
Sonia Orozco, CMC City Clerk

Dated:
Publish:

COUNCIL COMMUNICATION

CC #: 1509
File #: 0206-03-01 & 0400-04-17 & 0400-09-01

Title:	Community Facilities District No. 4 - Annexation of Territory
Contact:	Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 10.2.

RECOMMENDATION TO COUNCIL

It is recommended that the City Council adopt the following resolutions:

- A Resolution of the City Council of the City of Roseville of Annexation of Territory to Community Facilities District, Authorizing the Levy of Special Tax and Submitting Levy of Tax to Qualified Electors

- A Resolution of the City Council of the City of Roseville Declaring Results of Special Annexation Election, Determining Validity of Prior Proceedings, and Directing Recording of Amended Notice of Special Tax Lien

BACKGROUND

On August 9, 2018, the Planning Commission approved the developer's request for a Tentative Subdivision Map to subdivide a 2.4-acre parcel into ten (10) single family residential lots for the 415 East Street Subdivision project. Per the conditions of approval, the subject property shall be annexed into the Community Facilities District (CFD) No. 4 (Public Facilities) prior to approval of the Final/Parcel Map, for the purpose of covering the costs of the ongoing maintenance obligations attributable to infill development. The List of Authorized Services can be found as Exhibit A within the attached Amendment to Notice of Special Tax Lien. Parcels within this subdivision will be assigned the maximum tax rate of zone 4 per the Rate and Method of Apportionment, displayed as Exhibit B, Attachment 5 of the Amendment to Notice of Special Tax Lien.

On April 21, 2021 Council approved Resolution 21-147 to Annex Territory to Community Facilities District and to Authorize the Levy of Special Taxes Therein, and set Wednesday, June 2, 2021 at 6 p.m., 311 Vernon Street, Roseville, CA as the time and place to conduct a public hearing.

FISCAL IMPACT

The annexation into the CFD will not impact the City's General Fund. The property owners will pay a special tax, sufficient to pay the maintenance and administrative costs of the CFD, that will be levied annually among the parcels of real property within the CFD.

ENVIRONMENTAL REVIEW

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

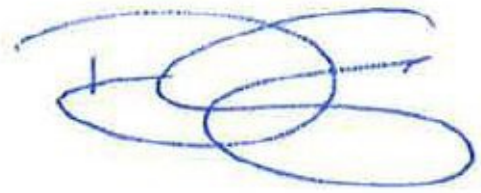
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal A - Remain fiscally responsible in a changing world

Respectfully Submitted,

Jeannine Thrash, Management Analyst

Dennis Kauffman, Assistant City Manager/Chief Financial Officer



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Public Hearing Notice

Resolution 21-246

Resolution 21-247

Amended Notice of Special Tax Lien

NOTICE OF HEARING

CITY OF ROSEVILLE
Community Facilities District No. 4
(Public Services)

Annexation No. 8 (415 East Street Subdivision)

Notice is hereby given by the City of Roseville (the "City") with respect to its Community Facilities District No. No. 4 (Public Services) (the "CFD") that on April 21, 2021, the City Council of the City, as the legislative body for the CFD, adopted its Resolution No. 21-147, "A Resolution of Intention to Annex Territory to Community Facilities District and to Authorize the Levy of Special Taxes Therein" (the "Resolution of Intention"). Reference is hereby made to the Resolution of Intention, on file with the City Clerk of the City for further particulars. The following is a summary of the provisions of the Resolution of Intention.

Pursuant to the Resolution of Intention, the Council determined that the public convenience and necessity require that certain territory, as more particularly described in the Resolution of Intention, be annexed to the existing CFD, all as provided in the Mello-Roos Community Facilities Act of 1982, as amended (Section 53311 et seq. of California Government Code) (the "Act'). The Resolution of Intention provides that the special taxes heretofore caused to be levied in the CFD for financing the public services provided through the CFD shall be levied in the territory proposed to be annexed, subject to public hearing and landowner election proceedings as specified in the Act.

Notice is further given that Wednesday, June 2, 2021 at 6:00 p.m. or as soon as possible thereafter, in the City Council Chambers, 311 Vernon Street, Roseville, CA 95678, are the time and place when and where the City Council of the City, as the legislative body for the CFD, will conduct a public hearing on the annexation of the territory described in the Resolution of Intention to the CFD and finally consider and determine whether the public convenience and necessity require the annexation of said territory to the CFD and the levy of special taxes therein.

Notice is further given that at the hearing, the testimony of all interested persons for and against the annexation of said territory to the CFD or the levying of special taxes within the territory proposed to be annexed will be heard.

Dated as of May __, 2021

City Clerk
City of Roseville

CITY COUNCIL OF THE CITY OF ROSEVILLE

RESOLUTION NO. 21-246

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE OF ANNEXATION OF TERRITORY TO COMMUNITY FACILITIES DISTRICT, AUTHORIZING THE LEVY OF A SPECIAL TAX AND SUBMITTING LEVY OF TAX TO QUALIFIED ELECTORS

CITY OF ROSEVILLE
Community Facilities District No. 4
(Public Services)

Annexation No. 8 (415 East Street Subdivision)

WHEREAS, this Council on April 21, 2021 adopted its Resolution No. 21-147, "A Resolution of the City Council of the City of Roseville of Intention to Annex Territory to Community Facilities District and to Authorize the Levy of Special Taxes Therein" (the "Resolution of Intention"), stating its intention to annex certain territory to the City's Community Facilities District No. 4 (Public Services) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982, as amended (the "Act");

WHEREAS, a copy of the Resolution of Intention, incorporating a description and map of the proposed boundaries of the territory to be annexed to the CFD and stating the public services to be provided and the rate and method of apportionment of the special tax to be levied within the CFD to finance the public services for the CFD, are as set forth in Resolution No. 05-227, adopted by the City Council of the City on May 18, 2005 (the "Resolution of Formation");

WHEREAS, on the date hereof, this Council held a noticed public hearing as required by the Act and the Resolution of Intention relative to the proposed annexation of territory to the CFD and at such hearing all interested persons desiring to be heard on all matters pertaining to the annexation of territory to the CFD and the levy of said special taxes within the area proposed to be annexed were heard and a full and fair hearing was held;

WHEREAS, at the conclusion of such hearing, written protests had not been filed against the proposed annexation of territory to the CFD by (i) 50% of more of the registered voters, or six registered voters, whichever is more, residing in the existing CFD, or (ii) 50% or more of the registered voters, or six registered voters, whichever is more, residing in the territory proposed to be annexed to the CFD, or (iii) owners of one-half or more of the area of land in the territory proposed to be annexed to the CFD; and

WHEREAS, Annexation Map No. 8 to the CFD, showing the territory proposed to be annexed has been recorded with the County Recorder of the County of Placer and is on file with the City Clerk, and reference is hereby made thereto.

NOW, THEREFORE, the City Council of the City of Roseville resolves:

1. All prior proceedings taken by this Council with respect to the CFD and the proposed annexation of territory thereto have been duly considered and are hereby determined

to be valid and in conformity with the Act, and the CFD has been validly established pursuant to the Act.

2. The description and map of the boundaries of the territory to be annexed to CFD, as described in said Annexation Map No. 8 to the CFD on file with the Clerk are hereby finally approved, are incorporated herein by reference, and shall be included within the boundaries of the CFD, and said territory is hereby ordered annexed to the CFD, subject to voter approval of the levy of the special taxes therein as hereinafter provided.

3. The provisions of the Resolution of Formation and the Resolution of Intention, each as heretofore adopted by this Council are by this reference incorporated herein as if fully set forth herein.

4. Pursuant to the provisions of the Act, the proposition of the levy of the special tax within the territory to be annexed to the CFD shall be submitted to the voters of the area to be annexed to the CFD at an election called therefor as hereinafter provided.

5. This Council hereby finds that fewer than 12 persons have been registered to vote within the territory proposed to be annexed to the CFD for each of the 90 days preceding the close of the hearing heretofore conducted and concluded by this Council for the purposes of these annexation proceedings. Accordingly, and pursuant to Section 53326 of the Act, this Council finds that for purposes of these proceedings the qualified electors are the landowners within the territory proposed to be annexed to the CFD and that the vote shall be by said landowners, each having one vote for each acre or portion thereof such landowner owns in the territory proposed to be annexed to the CFD.

6. Pursuant to Section 53327 of the Act, the election shall be conducted by messenger or mail-delivered ballot pursuant to Section 4000 et seq. of the California Elections Code, except that the election date shall be established in accordance with Government Code Section 53326(a).

7. The Council hereby calls a special election to consider the measure described in the ballot referred to in paragraph 8 below, which election shall be held on June 2, 2021 at 6:00 p.m., or as soon as possible thereafter, in the regular meeting place of this City Council, being the City Council Chambers, 311 Vernon Street, Roseville, California.

8. The City Clerk is hereby appointed as the election official to conduct the election and cause to be provided to each landowner(s) in the territory to be annexed to the CFD, a ballot in the form of Exhibit A hereto, which form of ballot is hereby approved.

9. The City Clerk shall accept the ballots of the qualified electors received prior to the holding of the public hearing, whether received by mail or by personal delivery.

10. This Council hereby further finds that the provision of Section 53326 of the Act requiring a minimum of 90 days to elapse before such election is for the protection of voters, that the voters have waived such requirement and the date for the election hereinabove specified is established accordingly.

* * * * * *

I hereby certify that the foregoing resolution was duly and regularly adopted by the City Council of the City of Roseville, California, at a regularly scheduled meeting thereof, held on the _____day of_____, 2021 by the following vote of the City Council:

AYES: COUNCILMEMBERS
NOES: COUNCILMEMBERS
ABSENT: COUNCILMEMBERS
ABSTAIN: COUNCILMEMBERS

_____
Mayor

ATTEST:

_____
City Clerk of the City of Roseville

Exhibit A

CITY OF ROSEVILLE
Community Facilities District No. 4
(Public Services)

Annexation No. 8 (415 East Street Subdivision)

OFFICIAL BALLOT

SPECIAL TAX ANNEXATION ELECTION

This ballot is for the special landowner election. You must return this ballot in the enclosed postage paid envelope to the office of the City Clerk of the City of Roseville no later than 6:00 p.m. on Wednesday, June 2, 2021, either by mail or in person. The City Clerk's office is located at City Hall, City of Roseville, City Hall, 311 Vernon Street, Roseville, California, 95678.

To Vote, mark a cross (X) in the voting square after the word "YES" or after the word "NO." All marks otherwise made are forbidden. All distinguishing marks are forbidden and make the ballot void.

The estimated maximum amount of money raised annually by this measure is expected to be $2,341 per year (assuming Fiscal Year 2020-21 special tax rates), upon full build-out of the parcels annexing into the CFD, subject to escalation each year, based upon the rate and for the duration of the special tax set forth in the rate and method of apportionment of special taxes for the CFD.

If you wrongly mark, tear, or deface this ballot, return it to the City Clerk of the City of Roseville and obtain another.

BALLOT MEASURE: Shall the measure pursuant to which the City of Roseville, by and for its Community Facilities District No. 4 (Public Services) (the "CFD"), is authorized to levy special taxes within the territory annexed to the CFD pursuant to and as described in the Resolution of the Council of the City of Roseville of Annexation of Territory to Community Facilities District, Authorizing Levy of Special Tax Therein and Submitting Levy Of Tax to Qualified Electors, adopted by such Council on June 2, 2021 **be adopted**?

YES:_____

NO:_____

By execution in the space provided below, you also confirm your waiver of the time limit pertaining to the conduct of the election and any requirement for notice of election and analysis and arguments with respect to the ballot measure, as such waivers are described and permitted by Section 53326(a) and 5327(b) of the California Government Code.

Number of Votes:
Property Owner:

By:_____
Name:_____
Title: _____

CITY COUNCIL OF THE CITY OF ROSEVILLE

RESOLUTION NO. 21-247

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE DECLARING RESULTS OF SPECIAL ANNEXATION ELECTION, DETERMINING VALIDITY OF PRIOR PROCEEDINGS, AND DIRECTING RECORDING OF AMENDED NOTICE OF SPECIAL TAX LIEN

CITY OF ROSEVILLE
Community Facilities District No. 4
(Public Services)

Annexation No. 8 (415 East Street Subdivision)

WHEREAS, in proceedings heretofore conducted by the Council pursuant to the Mello-Roos Community Facilities Act of 1982, as amended (the "Act"), this Council has heretofore adopted a resolution calling a special election of the qualified landowner electors in the territory of land proposed to be annexed to Community Facilities District No. 4 (Public Services) (the "CFD");

WHEREAS, pursuant to the terms of the resolution which is hereby incorporated herein by this reference, the special election has been held and the City Clerk has filed a Canvass of Votes Cast in Special Election, a copy of which is attached hereto as Exhibit A; and,

WHEREAS, this Council has reviewed the Canvass and hereby approves it.

NOW, THEREFORE, the City Council of the City of Roseville resolves:

1. The issue presented at the special election was the levy of a special tax within the territory annexed to the CFD, to be levied in accordance with the formula heretofore approved by this Council as described in the resolution adopted on the date hereof entitled, "A Resolution of the City Council of the City of Roseville of Annexation of Territory to Community Facilities District, Authorizing the Levy of a Special Tax and Submitting Levy of Tax to Qualified Electors," adopted on the date hereof.

2. Pursuant to the Canvass on file with the City Clerk, the issue presented at the special election was approved by the landowners of the territory annexed to the CFD by more than two-thirds of the landowners voting at the special election.

3. Pursuant to the voter approval, said annexed territory to the CFD is hereby declared to be fully annexed to and part of the CFD and this Council may levy special taxes therein as heretofore provided in these proceedings.

4. It is hereby found that all prior proceedings and actions taken by this Council pursuant to the CFD and the territory annexed thereto were valid and in conformity with the Act.

Within 15 days of the date hereof, the City Clerk shall execute and cause to be recorded in the office of the County Recorder of the County of Placer, an amendment to the Notice of Special Tax Lien as required by Section 3117.5 of the California Streets and Highways Code.

* * * * * *

I hereby certify that the foregoing resolution was duly and regularly adopted by the City Council of the City of Roseville, California, at a regularly scheduled meeting thereof, held on the _____day of_____, 2021 by the following vote of the City Council:

AYES: COUNCILMEMBERS
NOES: COUNCILMEMBERS
ABSENT: COUNCILMEMBERS
ABSTAIN: COUNCILMEMBERS

_____
Mayor

ATTEST:

_____
City Clerk of the City of Roseville

EXHIBIT A

CITY OF ROSEVILLE
Community Facilities District No. 4
(Public Services)

Annexation No. 8 (415 East Street Subdivision)

CANVASS AND STATEMENT OF RESULT OF ELECTION

I hereby certify that on this date, I canvassed the returns of the election held on this date, in the territory annexed to Community Facilities District No. 4 (Public Services) of the City of Roseville which election is designated as the Special Tax Annexation Election, and the total number of ballots cast in the territory to be annexed and the total number of votes cast for and against the measure are as follows and the totals as shown for and against the measure are full, true and correct:

	Qualified Landowner Votes	Votes Cast	YES	NO	
City of Roseville Community Facilities District No. 4 (Public Services) Annexation No. 8 (415 East Street Subdivision) Special Tax Annexation Election, June 2, 2021	_____	_____	_____	_____	_____

BALLOT MEASURE: Shall the measure pursuant to which the City of Roseville, by and for its Community Facilities District No. 4 (Public Services) (the "CFD"), is authorized to levy special taxes within the territory annexed to the CFD pursuant to and as described in the Resolution of the Council of the City of Roseville of Annexation of Territory to Community Facilities District, Authorizing Levy of Special Tax Therein and Submitting Levy Of Tax to Qualified Electors, adopted by such Council on June 2, 2021 **be adopted**?

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND this_____day of _____, 2021.

CITY OF ROSEVILLE

By: _____
City Clerk

RECORDING REQUESTED BY AND
AFTER RECORDATION RETURN TO:

City Clerk
City of Roseville
311 Vernon Street,
Roseville, CA 95678

AMENDMENT TO NOTICE OF SPECIAL TAX LIEN

City of Roseville
Community Facilities District No. 4
(Public Services)

Annexation No. 8 (415 East Street Subdivision)

Pursuant to the requirements of Section 3117.5 of the Streets and Highways Code of California and the Mello-Roos Community Facilities Act of 1982, as amended, section 53311, *et. seq*., of the California Government Code (the "Act"), the undersigned City Clerk of the City of Roseville (the "City"), County of Placer, State of California, hereby gives notice that a lien to secure payment of a special tax which the City is authorized to levy for Community Facilities District No. 4 (Public Services) (the "CFD"), County of Placer, State of California, is hereby imposed on the property described herein. The special tax secured by this lien is authorized to be levied for the purpose of paying the costs of public services in and according to the rate and method of apportionment set forth in that certain Notice of Special Tax Lien heretofore recorded in the Office of the County Recorder of the County of Placer, State of California on June 21, 2005, as Document No. 2015-0079310, to which recorded Notice of Special Tax Lien and amendment thereto reference is hereby made and the provisions of which are hereby incorporated by this reference.

This Amended Notice of Special Tax Lien amends and supplements the Notice of Special Tax Lien to add to the territory of Community Facilities District No. 4 (Public Services) of the City Roseville the lands set forth in that certain "Annexation Map 8 to Community Facilities District No. 4 (Public Services), County of Placer, State of California – 415 East Street Subdivision," heretofore recorded on May 5, 2021 at Book 4 Maps of Assessment and Community Facilities Districts at Page 21 in the office of the County Recorder of the County of Placer, State of California.

Pursuant to the requirements of Section 3114.5 of the Streets and Highways Code and Section 53324 of the Government Code, the undersigned, City Clerk of the City of Roseville, hereby gives notice that a lien to secure payment of a special tax which the City Council of the City of Roseville, County of Placer, State of California is authorized to levy is hereby imposed. The special tax secured by this lien is authorized to be levied for the purpose of paying for public services as described in **Exhibit A** attached hereto, and the incidental expenses related thereto.

The assessor's tax parcel(s) numbers of all parcels or any portion thereof which have been annexed to Community Facilities District No. 4 (Public Services), as shown in the Annexation Map referred to above, are thus included in this Amended Notice of Special Tax Lien, together with the name(s) of the owner(s) thereof, as they appear on the latest secured assessment roll as of the date of recording hereof or as are otherwise known to the City are as set forth in **Exhibit C** hereto and hereby made a part hereof.

The special tax is authorized to be levied against the parcel(s) described in Exhibit C hereto, which parcel(s) has been annexed into Community Facilities District No. 4 (Public Services), City of Roseville, County of Placer, State of California, which has been officially formed and the lien of the special tax is a continuing lien which shall secure each annual levy of the special tax and which shall continue in force and effect unless the special tax obligation is canceled in accordance with law or the special tax ceases to be levied and a notice of cessation of special tax is recorded in accordance with Section 53330.5 of the Government Code.

The rate, method of apportionment and the manner of collection of the authorized special tax is shown on **Exhibit B** attached hereto. The rate, method of apportionment, and the manner of collection of the authorized special tax does not contain conditions under which the obligation to pay the special tax may be prepaid and permanently satisfied.

Notice is further given that upon the recording of this notice in the office of the county recorder, the obligation to pay the special tax levy shall become a lien upon all nonexempt real property within the Community Facilities District No. 4 (Public Services), City of Roseville, in accordance with Section 3115.5 of the Streets and Highways Code.

For further information concerning the current and estimated future tax liability of owners or purchasers of real property subject to this special tax lien, interested persons should contact the City Administrator of the City of Roseville, 311 Vernon Street, Roseville, CA 95678, telephone number (916) 774-5319.

Dated: As of _____, 2021.

By: _____
City Clerk
City of Roseville

EXHIBIT A – List of Authorized Services
EXHIBIT B – Rate and Method of Apportionment
EXHIBIT C – Property Owner and Parcel Number

EXHIBIT A

CITY OF ROSEVILLE
Community Facilities District No. 4
(Public Services)
Annexation No. 8 (415 East Street Subdivsion)

List of Authorized Services

The Maintenance Obligations to be finance, in whole or in part, by this CFD shall consist of the following:

1. Maintenance of the landscape corridors and paseos designed to serve the project areas within the CFD, including but not limited to, soundwalls, trees, bus shelters, autumn leaf cleanup and street sweeping, landscaping, the City and neighborhood entry features and the landscape median;
2. Maintenance of all public pedestrian or bicycle pathways;
3. Maintenance of the Open Space Buffer Areas, Park Preserve areas and any lots that will be conveyed to the City, with such maintenance to include fire breaks and fire safety measures;
4. Maintenance of landscaping, and irrigation, for neighborhood park improvements, maintenance, and repair and replacement;
5. Maintenance of any sound attenuation wall, berm, and related on-site sound attenuation improvements constructed as part of the CFD;
6. Maintenance of storm drainage, stormwater management and drainage system facilities; and
7. Performance and management of any environmental mitigation monitoring, including the annual review thereof.

General City Costs

- City and County costs associated with the setting, levy, and collection of the Special Taxes.
- City costs associated with contract administration.

Sinking Funds

The Special Taxes may be collected and set-aside in designated sinking funds to be used by the City to fund miscellaneous costs related to any of the items described above as well as vandalism repair and future repairs to and replacement of landscaping, entry monuments and features, wall and fences, and other improvements the maintenance of which is funded by CFD No. 4.

EXHIBIT B
CITY OF ROSEVILLE
COMMUNITY FACILITIES DISTRICT NO. 4
(PUBLIC SERVICES)

RATE AND METHOD OF APPORTIONMENT OF SPECIAL TAX

A Special Tax applicable to each Assessor's Parcel in Community Facilities District No. 4 (Public Services) [herein "CFD No. 4"] shall be levied and collected according to the tax liability determined by the City Council, acting in its capacity as the legislative body of CFD No. 4, through the application of the appropriate Special Tax rate, as described below. All of the property in CFD No. 4, unless exempted by law or by the provisions of Section E below, shall be taxed for the purposes, to the extent, and in the manner herein provided, including property subsequently annexed to CFD No. 4 unless a separate Rate and Method of Apportionment of Special Tax is adopted for the annexation area.

A. DEFINITIONS

The terms hereinafter set forth have the following meanings:

"Acreage" or **"Acre"** means the land area making up an Assessor's Parcel as shown on an Assessor's Parcel Map, or if the land area is not shown on an Assessor's Parcel Map, the land area shown on the applicable final subdivision map or other parcel map recorded at the County Recorder's Office.

"Administrative Expenses" means the costs incurred by the City to determine, levy and collect the Special Tax, including salaries of City employees and fees of consultants and the costs of collecting installments of the Special Taxes upon the general tax rolls; preparation of required reports, and any other costs required to administer the CFD as determined by the Finance Director.

"Administrator" means the person or firm designated by the City to administer the Special Taxes according to this Rate and Method of Apportionment of Special Tax.

"Annual Tax Escalation Factor" means an annual increase in the Maximum Special Tax following the Base Year in an amount not to exceed four percent (4%).

"Assessor's Parcel" or **"Parcel"** means a lot or parcel shown in an Assessor's Parcel Map with an assigned Assessor's Parcel number.

"Assessor's Parcel Map" means an official map of the County Assessor designating parcels by Assessor's Parcel number.

"Authorized Services" means the public services authorized to be funded by CFD No. 4 as set forth in the documents adopted by the City Council when the CFD was formed.

"Base Year" means Fiscal Year 2005-06.

"City" means the City of Roseville.

"City Council" means the City Council of the City of Roseville, acting as the legislative body of CFD No. 4.

"County" means the County of Placer.

"Developed Property" means, in any Fiscal Year, all Parcels of Taxable Property for which a use permit or building permit for new construction of a residential or non-residential structure was issued prior to June 30 of the preceding Fiscal Year.

"Finance Director" means the Finance Director for the City of Roseville or his or her designee.

"Fiscal Year" means the period starting on July 1 and ending on the following June 30.

"Land Use Class" means, for a particular Parcel, Non-Residential Property, Multi-Family Property, Single Family Detached Property, or Single Family Attached Property.

"Maximum Special Tax" means the maximum Special Tax determined in accordance with Section C below that can be levied on Taxable Property in any Fiscal Year.

"Multi-Family Property" means any Parcel of Developed Property for which a building permit or use permit has been issued for construction of a residential structure with Units that are offered for rent to the general public.

"Non-Residential Property" means any Parcel of Developed Property within CFD No. 4 that is not Multi-Family Property, Single Family Detached Residential Property, or Single Family Attached Property.

"Public Property" means any property within the boundaries of CFD No. 4 that is owned by the federal government, State of California, County, City, or other public agency.

"Single Family Attached Property" means, in any Fiscal Year, all Parcels in CFD No. 4 for which a building permit was issued for construction of a residential structure consisting of two or more Units that share common walls and are offered as for-sale Units, including such residential structures that meet the statutory definition of a condominium contained in Civil Code Section 1351.

"Single Family Detached Property" means, in any Fiscal Year, all Parcels in CFD No. 4 for which a building permit was issued for construction of a Unit that does not share a common wall with another Unit.

"Special Tax Requirement" means the amount of revenue needed in any Fiscal Year to pay for the following: (i) Authorized services, maintenance expenses, sinking fund payments and capital reserves authorized to be funded by CFD No. 4, (ii) Administrative Expenses, (iii) amounts needed to cure any delinquencies in the payment of Special Taxes which have occurred or (based on delinquency rates in prior years) may be expected to occur in the Fiscal Year in which the tax will be collected.

"Special Tax" means any tax levied pursuant to the Act on property within CFD No. 4.

"Taxable Property" means all Assessor's Parcels within the boundaries of CFD No. 4 which are not exempt from the Special Tax pursuant to law or Section F below.

"Taxable Public Property" means, in any Fiscal Year, all Assessor's Parcels in CFD No. 4 that had, in prior Fiscal Years, been taxed as Developed Property and subsequently came under the ownership of a Public Agency.

"Tax Zone" means one of the twenty-eight (28) mutually exclusive tax zones identified in Attachment 1 of this Rate and Method of Apportionment of Special Tax, as may be updated to include new Parcels added to the CFD as a result of future annexations (which may be noncontiguous with Parcels already in the Tax Zone).

"Unit" means an individual single-family detached unit or an individual residential unit within a duplex, triplex, fourplex, townhome, condominium, or apartment structure.

"Undeveloped Property" means all Parcels of Taxable Property within the boundaries of CFD No. 4 that are not Developed Property, as determined by the Administrator.

B. DATA COLLECTION FOR ANNUAL TAX LEVY

Each Fiscal Year, the Administrator shall identify the current Assessor's Parcel number for all Parcels of Taxable Property within CFD No. 4 and shall determine within which Tax Zone each Assessor's Parcel is located. Upon each annexation of property into CFD No. 4, the Administrator shall update Attachment 1 to include the new Assessor's Parcel number(s).

Based on review of building permit records for property within the CFD, each Parcel shall be categorized as either Developed Property or Undeveloped Property for purposes of levying the Special Tax pursuant to Section E below. For Single Family Attached Property or Multi-Family Property, the number of Units shall be determined by referencing the condominium plan, apartment plan, site plan or other development plan for the property.

If a Parcel in the CFD is rezoned prior to such Parcel becoming Developed Property, the City may in its sole discretion, move the Parcel to a different Tax Zone based on the new Land Use Class that can be developed on the Parcel after the rezone. If a Parcel rezones after the Parcel has been taxed as Developed Property in prior Fiscal Years, the City can either continue to apply the Maximum Special Tax to the Parcel that had applied prior to the rezone or, in the City's sole discretion, allow for the Parcel to be moved to a different Tax Zone based on the Land Use Class that will be allowed after the rezone is approved.

C. MAXIMUM SPECIAL TAX

The following Maximum Special Tax rates apply to all Parcels of Developed Property within CFD No. 4:

MAXIMUM SPECIAL TAX RATES
(FISCAL YEAR 2005-06, REVISED 2006-07) *

Tax Zone	Maximum Special Tax (Fiscal Year 2005-06) *
1	$ 50 per Unit
2	$ 75 per Unit
3	$ 100 per Unit
4	$ 125 per Unit
5	$ 150 per Unit
6	$ 175 per Unit
7	$ 200 per Unit
8	$ 225 per Unit
9	$ 250 per Unit
10	$ 275 per Unit
11	$ 300 per Unit

12	$ 350 per Unit
13	$ 375 per Unit
14	$ 250 per Acre
15	$ 350 per Acre
16	$ 475 per Acre
17	$ 600 per Acre
18	$ 750 per Acre
19	$ 850 per Acre
20	$ 1,000 per Acre
21	$ 1,050 per Acre
22	$ 1,500 per Acre
23	$ 2,000 per Acre
24	$ 2,500 per Acre
25	$ 3,000 per Acre
26	$ 3,500 per Acre
27	$ 4,000 per Acre
28	$ 4,500 per Acre
29	$ 5,000 per Acre
30	$ 5,500 per Acre
31	$ 6,000 per Acre

** Beginning July 1, 2006 and each July 1 thereafter, all of the Maximum Special Taxes shown in Table 1 above shall be adjusted by applying the Annual Tax Escalation Factor.*

D. METHOD OF LEVY AND COLLECTION OF SPECIAL TAX

Each Fiscal Year, the Special Tax shall be levied as follows until the amount of the levy equals the Special Tax Requirement for that Fiscal Year:

First: The Special Tax shall be levied Proportionately on each Parcel of Developed Property up to 100% of the Maximum Special Tax determined for each category of Developed Property within each Tax Zone until the amount levied is equal to the Special Tax Requirement for the Fiscal Year.

Second: If additional revenue is needed after the first step has been completed, the Special Tax shall be levied Proportionately on each Parcel of Taxable Public Property up to 100% of the Maximum Special Tax that had applied to the Parcel prior to the Parcel becoming Public Property until the amount levied is equal to the Special Tax Requirement for the Fiscal Year.

The Special Tax for CFD No. 4 shall be collected at the same time and in the same manner as ordinary ad valorem property taxes provided, however, that the City may (under the

authority of Government Code Section 53340) collect Special Taxes at a different time or in a different manner if necessary to meet CFD No. 4 financial obligations and the Special Tax shall be equally subject to foreclosure if delinquent.

E. LIMITATIONS

Notwithstanding any other provision of this Rate and Method of Apportionment of Special Tax, no Special Tax shall be levied on Public Property that is not Taxable Public Property.

F. INTERPRETATION OF SPECIAL TAX FORMULA

The City reserves the right to make minor administrative and technical changes to this document that does not materially affect the rate and method of apportioning the Special Taxes. In addition, the interpretation and application of any section of this document shall be left to the City's discretion. Interpretations may be made by the City by ordinance or resolution for purposes of clarifying any vagueness or ambiguity in this Rate and Method of Apportionment of Special Tax.

ATTACHMENT 1
MAXIMUM SPECIAL TAX RATES
(FISCAL YEAR 2005-06, REVISED 2006-07)*
IDENTIFICATION OF TAX ZONES

Tax Zone	Maximum Special Tax (Fiscal Year 2005-06)*
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	017-250-005 (017-117-007,011,014) 71 ac
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	

The property identified by the APNs listed above shall remain part of the identified Tax Zone regardless of changes in the configuration of the Assessor's Parcels or changes to Assessor's Parcel numbers in future Fiscal Years.

ATTACHMENT 2
MAXIMUM SPECIAL TAX RATES
IDENTIFICATION OF TAX ZONES
ANNEXATION NO. 5 (OLD AUBURN RANCH)

Tax Zone	Assessor's Parcels Included in Tax Zone*	Proposed Units	Fiscal Year in Which APN was Added to CFD No. 4
1			
2			
3			
4			
5			
6			
7	467-090-002-000	32	2015/16
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			

The property identified by the APNs listed above shall remain part of the identified Tax Zone regardless of changes in the configuration of the Assessor's Parcels or changes to Assessor's Parcel numbers in future Fiscal Years.

ATTACHMENT 3
MAXIMUM SPECIAL TAX RATES
IDENTIFICATION OF TAX ZONES
ANNEXATION NO. 6 (FOOTHILLS AMERICAN DREAM)

Tax Zone	Assessor's Parcels Included in Tax Zone*	Proposed Units	Fiscal Year in Which APN was Added to CFD No. 4
1			
2			
3			
4			
5			
6			
7	475-050-019-000	62	2016/2017
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			

The property identified by the APNs listed above shall remain part of the identified Tax Zone regardless of changes in the configuration of the Assessor's Parcels or changes to Assessor's Parcel numbers in future Fiscal Years.

ATTACHMENT 4
MAXIMUM SPECIAL TAX RATES
IDENTIFICATION OF TAX ZONES
ANNEXATION NO. 7 (THE VILLAGES AT KIT CARSON)

Tax Zone	Assessor's Parcels Included in Tax Zone*	Proposed Units	Fiscal Year in Which APN was Added to CFD No. 4
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13	048-350-015-000; 048-350-016-000; 048-350-018-000; 048-350-021-000; 048-350-022-000	21	2019/20
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			

The property identified by the APNs listed above shall remain part of the identified Tax Zone regardless of changes in the configuration of the Assessor's Parcels or changes to Assessor's Parcel numbers in future Fiscal Years.

ATTACHMENT 5
MAXIMUM SPECIAL TAX RATES
IDENTIFICATION OF TAX ZONES
ANNEXATION NO. 8 (415 EAST STREET SUBDIVISION)

Tax Zone	Assessor's Parcels Included in Tax Zone*	Proposed Units	Fiscal Year in Which APN was Added to CFD No. 4
1			
2			
3			
4	013-030-009-000	10	2020/21
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			

The property identified by the APNs listed above shall remain part of the identified Tax Zone regardless of changes in the configuration of the Assessor's Parcels or changes to Assessor's Parcel numbers in future Fiscal Years.

CITY OF ROSEVILLE
COMMUNITY FACILITIES DISTRICT NO. 4
(PUBLIC SERVICES)

SUPPLEMENTAL RATE AND METHOD OF APPORTIONMENT OF SPECIAL TAX FOR ANNEXATION #4 (WOODCREEK OAKS PRESERVE)

A Special Tax applicable to each Assessor's Parcel in Annexation #4 of Community Facilities District No. 4 (Public Services) [herein "CFD No. 4"] shall be levied and collected according to the tax liability determined by the City Council, acting in its capacity as the legislative body of CFD No. 4, through the application of the appropriate Special Tax rate, as described below. All of the property in Annexation #4 of CFD No. 4, unless exempted by law or by the provisions of Section E below, shall be taxed for the purposes, to the extent, and in the manner herein provided.

A. DEFINITIONS

The terms hereinafter set forth have the following meanings:

"Acreage" or **"Acre"** means the land area making up an Assessor's Parcel as shown on an Assessor's Parcel Map, or if the land area is not shown on an Assessor's Parcel Map, the land area shown on the applicable Final Map or other parcel map recorded at the County Recorder's Office.

"Administrative Expenses" means the costs incurred by the City to determine, levy and collect the Special Tax, including salaries of City employees and fees of consultants and the costs of collecting installments of the Special Taxes upon the general tax rolls; preparation of required reports, and any other costs required to administer the CFD as determined by the City Treasurer.

"Administrator" means the person or firm designated by the City to administer the Special Taxes according to this Supplemental Rate and Method of Apportionment of Special Tax.

"Annexation #4" means the geographic area commonly referred to as the Woodcreek Oaks Preserve and identified in the boundary map for Annexation #4 of CFD No. 4.

"Annual Tax Escalation Factor" means an annual increase in the Maximum Special Tax following the Base Year in an amount not to exceed four percent (4%).

"Assessor's Parcel" or **"Parcel"** means a lot or parcel shown in an Assessor's Parcel Map with an assigned Assessor's Parcel number.

"Assessor's Parcel Map" means an official map of the County Assessor designating parcels by Assessor's Parcel number.

"Assigned Per-Acre Special Tax" means the base per-acre Special Tax that is used in Section C below to determine the Maximum Special Tax that can be levied on Taxable Property in any Fiscal Year.

"Authorized Services" means the public services, including sinking fund payments and capital reserves, authorized to be funded by CFD No. 4 as set forth in the documents adopted by the City Council when the CFD was formed.

"Base Year" means Fiscal Year 2008-09.

"City" means the City of Roseville.

"City Council" means the City Council of the City of Roseville, acting as the legislative body of CFD No. 4.

"City Treasurer" means the City Treasurer for the City of Roseville or his or her designee.

"County" means the County of Placer.

"Developed Property" means, in any Fiscal Year, all Parcels of Taxable Property for which a use permit or building permit for new construction of a residential or non-residential structure was issued prior to June 30 of the preceding Fiscal Year.

"Final Map" means a final map, or portion thereof, approved by the City pursuant to the Subdivision Map Act (California Government Code Section 66410 *et seq.*) that creates lots which do not need to be further subdivided prior to issuance of a building permit for a residential or non-residential structure. The term "Final Map" shall not include any Assessor's Parcel Map or subdivision map or portion thereof, that does not create lots that are in their final configuration, including Assessor's Parcels that are designated as remainder parcels.

"Fiscal Year" means the period starting on July 1 and ending on the following June 30.

"Maximum Special Tax" means the maximum Special Tax determined in accordance with Section C below that can be levied on Taxable Property in any Fiscal Year.

"Multi-Family Property" means any Parcel of Taxable Property for which a building permit or use permit has been issued or will be issued for construction of a residential structure with Units that are offered for rent to the general public.

"Non-Residential Property" means any Parcel of Taxable Property for which a building permit or use permit has been or is expected to be issued for construction of a commercial or industrial building.

"Proportionately" means, for Developed Property, that the ratio of the actual Special Tax levy to the Maximum Special Tax is equal for all Assessor's Parcels of Developed Property. For Undeveloped Property, **"Proportionately"** means that the ratio of the actual Special Tax levy to the Maximum Special Tax is equal for all Assessor's Parcels of Undeveloped Property. For Taxable Public Property, **"Proportionately"** means that the ratio of the actual Special Tax levy to the Maximum Special Tax is equal for all Assessor's Parcels of Taxable Public Property.

"Public Property" means any property within the boundaries of CFD No. 4 that is owned by the federal government, State of California, County, City, or other public agency.

"Residential Property" means all property zoned for, designated in a land use plan as, or otherwise identified to be developed for a residential use.

"Single Family Residential Lot" means an individual lot within a Final Map for which a building permit can be issued without further subdivision of the lot for construction of a single family detached residential unit, or a duplex, triplex, fourplex, townhome, or condominium unit that is not a Stacked Unit.

"Special Tax Requirement" means the amount of revenue needed from Annexation #4 in any Fiscal Year to pay for the following: (i) Authorized Services, (ii) Administrative Expenses, (iii) amounts needed to cure any delinquencies in the payment of Special Taxes within Annexation #4 which have occurred or (based on delinquency rates in prior years) may be expected to occur in the Fiscal Year in which the tax will be collected.

"Special Tax" means any tax levied pursuant to the Act on property within Annexation #4.

"Stacked Unit" means, within a townhome or condominium structure, an individual residential unit that shares common vertical space of an underlying Assessor's Parcel with other residential units, and each residential unit on such underlying Parcel has been assigned a separate Assessor's Parcel number.

"Stacked Unit Property" means any parcel of Taxable Property for which a building permit was or is expected to be issued for construction of a residential structure that contains or will contain Stacked Units.

"Taxable Property" means all Assessor's Parcels within the boundaries of Annexation #4 which are not exempt from the Special Tax pursuant to law or Section E below.

"Taxable Public Property" means, in any Fiscal Year, all Assessor's Parcels in Annexation #4 that had, in prior Fiscal Years, been taxed as Developed Property and subsequently came under the ownership of a public agency.

"Undeveloped Property" means all Parcels of Taxable Property within the boundaries of CFD No. 4 that are not Developed Property, as determined by the Administrator.

B. DATA COLLECTION FOR THE ANNUAL SPECIAL TAX LEVY

Each Fiscal Year, the Administrator shall identify the current Assessor's Parcel number for all Parcels of Taxable Property and shall determine if any Final Maps have been recorded on property within Annexation #4. If Final Maps have been recorded, the Administrator shall determine the Acreage for all Taxable Property within each Final Map.

Based on review of building permit records for property within the CFD, each Parcel shall be categorized as either Developed Property or Undeveloped Property for purposes of levying the Special Tax pursuant to Section D below. For Stacked Unit Property, the number of Stacked Units shall be determined by referencing the condominium plan, site plan or other development plan for the property.

C. MAXIMUM SPECIAL TAX

The Assigned Per-Acre Special Tax for Annexation #4 for Fiscal Year 2008-09 is $372 per Acre, which amount shall, beginning July 1, 2009 and each July 1 thereafter, be adjusted by applying the Annual Tax Escalation Factor. The Assigned Per-Acre Special Tax shall be applied to each Parcel of Taxable Property pursuant to Sections C.1, C.2, C.3 and C.4 below to determine the Maximum Special Tax for each Parcel:

1. Residential Property: Prior to Recordation of a Final Map

In any Fiscal Year prior to recordation of a Final Map for Residential Property within Annexation #4, the Administrator shall multiply the Assigned Per-Acre Special Tax by the Acreage of each Parcel of Residential Property to determine the Maximum Special Tax for each Parcel for the Fiscal Year.

2. Residential Property: After Recordation of a Final Map

a. All Taxable Property in Final Map is Subdivided into Single Family Residential Lots

If all of the Taxable Property included within the Final Map is subdivided into Single Family Residential Lots, the Administrator shall apply the following steps to calculate the Maximum Special Tax for each Parcel of Taxable Property:

Step 1: Determine the total combined Acreage of Taxable Property within the approved Final Map.

Step 2: Multiply the Acreage determined in Step 1 by the Assigned Per-Acre Special Tax to determine the total Maximum Special Tax assigned to Taxable Property within the Final Map.

Step 3: Divide the Maximum Special Tax determined in Step 2 by the total number of Single Family Residential Lots created within the Final Map to determine the Maximum Special Tax for each Single Family Residential Lot.

b. All Taxable Property in Final Map is Stacked Unit Property

If all Parcels of Taxable Property within the Final Map are Stacked Unit Property, the Administrator shall apply the following steps to calculate the Maximum Special Tax for each Stacked Unit within the area included in the Final Map:

Step 1: Determine the total combined Acreage of Taxable Property within the Final Map.

Step 2: Multiply the Acreage determined in Step 1 by the Assigned Per-Acre Special Tax to determine the total Maximum Special Tax assigned to Taxable Property within the Final Map.

Step 3: By referencing the condominium plan, site plan or other development plan for the property, determine the total number of Stacked Units that are expected to be built on the Acreage from Step 1.

Step 4: Divide the total Maximum Special Tax calculated in Step 2 by the number of Stacked Units from Step 3 to determine the Maximum Special Tax that will be assigned to each Stacked Unit within the Final Map area.

If the Special Tax is being levied prior to the County Assessor assigning a separate Assessor Parcel number to the individual airspace parcel for each Stacked Unit, the Assigned Per-Acre Special Tax shall be multiplied by the Acreage of each existing Assessor's Parcel within the Final Map to determine the Maximum Special Tax for each Parcel. Once separate Assessor Parcel numbers have been assigned, the Administrator shall apply the steps above to allocate the Maximum Special Tax to each Stacked Unit.

c. **Multi-Family Property**

For any Parcel of Multi-Family Property created within a Final Map, the Administrator shall multiply the Assigned Per-Acre Special Tax by the Acreage of the Parcel to determine the Maximum Special Tax for the Parcel.

3. **Non-Residential Property**

For each Parcel of Non-Residential Property within the CFD, the Administrator shall multiply the Assigned Per-Acre Special Tax by the Acreage of the Parcel to determine the Maximum Special Tax for the Parcel.

4. **Different Types of Property Within One Final Map**

If a Final Map includes a combination of one or more land use types (i.e., Single Family Residential Property, Stacked Unit Property, Multi-Family Property, Non-Residential Property), the Administrator shall separate the Acreage for each type of land use and, separately for each land use, apply Section C.1, C.2 and/or C.3, as appropriate, to determine the Maximum Special Tax for each Parcel within that land use type.

5. **Taxable Public Property**

The Maximum Special Tax for any Parcel of Taxable Public Property within the CFD shall be the Maximum Special Tax that would have applied to such Parcel prior to the public agency taking ownership of the Parcel.

Beginning July 1, 2009 and each July 1 thereafter, the Maximum Special Taxes assigned to each Parcel of Taxable Property pursuant to this Section C shall be adjusted by applying the Annual Tax Escalation Factor.

D. METHOD OF LEVY AND COLLECTION OF SPECIAL TAX

Each Fiscal Year, the Special Tax shall be levied as follows until the amount of the levy equals the Special Tax Requirement for that Fiscal Year:

First: The Special Tax shall be levied Proportionately on each Parcel of Developed Property up to 100% of the Maximum Special Tax determined for each Parcel until the amount levied is equal to the Special Tax Requirement for the Fiscal Year.

Second: If additional revenue is needed after the first step has been completed, the Special Tax shall be levied Proportionately on each Parcel of Undeveloped Property up to 100% of the Maximum Special Tax determined for each Parcel until the amount levied is equal to the Special Tax Requirement for the Fiscal Year.

Third: If additional revenue is needed after the second step has been completed, the Special Tax shall be levied Proportionately on each Parcel of Taxable Public Property up to 100% of the Maximum Special Tax that had been applied to the Parcel prior to the Parcel becoming Public Property until the amount levied is equal to the Special Tax Requirement for the Fiscal Year.

The Special Tax for Annexation #4 shall be collected at the same time and in the same manner as ordinary ad valorem property taxes provided, however, that the City may (under the authority of Government Code Section 53340) collect Special Taxes at a different time or in a different manner if necessary to meet Annexation #4 financial obligations and the Special Tax shall be equally subject to foreclosure if delinquent.

E. LIMITATIONS

Notwithstanding any other provision of this Supplemental Rate and Method of Apportionment of Special Tax, no Special Tax shall be levied on Public Property that is not Taxable Public Property.

F. INTERPRETATION OF SPECIAL TAX FORMULA

The City reserves the right to make minor administrative and technical changes to this document that does not materially affect the rate and method of apportioning the Special Taxes. In addition, the interpretation and application of any section of this document shall be left to the City's discretion. Interpretations may be made by the City by ordinance or resolution for purposes of clarifying any vagueness or ambiguity in this Supplemental Rate and Method of Apportionment of Special Tax.

EXHIBIT C

CITY OF ROSEVILLE
Community Facilities District No. 4
(Public Services)
Annexation No. 8 (415 East Street Subdivision)

Property Owner and Assessor Parcel Number

Name(s) of Property Owner	Assessor Parcel Number(s)
Globe Investment LLC, a California Limited Liability Company	013-030-009-000

COUNCIL COMMUNICATION

CC #: 1502
File #: 0110

Title:	Junction Crossing Apartments - Tax Equity and Fiscal Responsibility Act Hearing
Contact:	Jeannine Thrash 916-774-5473 jthrash@roseville.ca.us Dennis Kauffman 916-774-5313 dkauffman@roseville.ca.us

Meeting Date: 6/2/2021
Item #: 10.3.

RECOMMENDATION TO COUNCIL

Staff recommends that the City Council:

1. Conduct a public hearing under the requirements of the Tax Equity and Fiscal Responsibility Act ("TEFRA") and the Internal Revenue Code of 1986, as amended.

2. Adopt the attached resolution approving the issuance of bonds by the California Public Finance Authority ("CalPFA") for the benefit of Junction Station, LP to finance the acquisition and construction of a multifamily rental housing project known as Junction Crossing Apartments located at 120 Pacific Street.

BACKGROUND

Junction Station, LP ("the Borrower") has requested that the California Public Finance Authority ("CalPFA") serve as the issuer of exempt facility revenue bonds in an aggregate principal amount not to exceed $17,000,000 (the "Bonds"). The proceeds of the Bonds will be used for the purpose of CalPFA making a loan to the Borrower in order to finance the acquisition, construction, improvement and equipping of an 80-unit multifamily rental housing project to be located at 120 Pacific Street, Roseville, California (the "Project").

Junction Crossing will be a single four-story building containing studio and one-bedroom apartments for low-income families in Roseville. Residents will need to qualify at income levels between 30%-70% of the Area Median Income limits. The site will include a clubhouse with a leasing area and lobby with a multimedia library, a fitness center, group exercise studio and clubroom with kitchen and seating for community gatherings. A public plaza is featured along the Church Street frontage with benches and a bike rack to ignite the pedestrian activity throughout the City's Historic District. Pacific Housing, Inc., the non-profit managing general partner, will provide the low-income households with onsite services, including a service coordinator and instructor-led adult educational, health and wellness and skill-building classes.

In order for the Bonds to qualify as tax-exempt bonds, the City of Roseville ("City") must conduct a public hearing (the "TEFRA Hearing") providing the members of the community an opportunity to speak in favor of or against the use of tax-exempt bonds for the financing of the Project. Prior to such TEFRA Hearing, reasonable notice must be provided to the members of the community, which has been completed through the published public hearing notice in the Press Tribune on May 21, 2021. Following the close of the TEFRA Hearing, an "applicable elected representative" of the governmental unit hosting the Project must provide its approval of the issuance of the Bonds for the financing of the Project.

California Public Finance Authority

The CalPFA is a political subdivision of the state of California established under the Joint Exercise of Powers Act for the purpose of issuing tax-exempt and taxable conduit bonds for public and private entities throughout California. CalPFA was created on May 12, 2015 to assist local governments, non-profit organizations and businesses with the issuance of taxable and tax-exempt financing to promote economic, cultural, and community development opportunities that create temporary and permanent jobs, affordable housing, community infrastructure and improve the overall quality of life in local communities. To date, 49 municipalities have become members of CalPFA, including the City of Roseville on August 1, 2018.
The CalPFA is authorized to issue bonds to promote economic development and public benefit. It has issued over $1.9 billion of bonds for more than 40 jurisdictions within the state of California. To initiate such financing for a project within the City's boundaries, the City must conduct a public hearing and approve the CalPFA's issuance of indebtedness.
The Bonds to be issued by CalPFA for the Project will be the sole responsibility of the Borrower, and the City will have no financial, legal, or moral obligation, liability or responsibility for the Project or the repayment of the Bonds for the financing of the Project. All financing documents with respect to the issuance of the Bonds will contain clear disclaimers that the Bonds are not bonds of the City or the state of California but are to be paid for solely from funds provided by the Project.

Participation by the City in the CalPFA does not impact the City's appropriations limits and will not constitute any type of indebtedness by the City. Outside of holding the TEFRA hearing and adopting the required resolution, no other participation or activity of the City or the City Council with respect to the issuance of the Bonds will be required.

FISCAL IMPACT

As a member of CalPFA, the City will receive a portion of the administrative fees paid by the Borrower for financing the Project, estimated to be approximately $670 annually.

ENVIRONMENTAL REVIEW

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

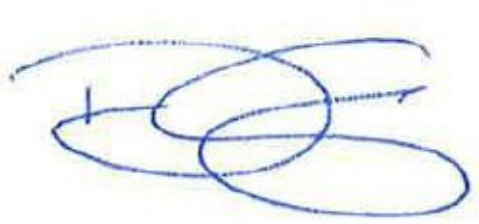
CITY COUNCIL STRATEGIC PLAN/OVERARCHING GOALS

Goal F - Invest in well-planned infrastructure and growth

Respectfully Submitted,

Jeannine Thrash, Management Analyst

Dennis Kauffman, Assistant City Manager/Chief Financial Officer



_____

Dominick Casey, City Manager

ATTACHMENTS:

Description

Resolution 21-241

Notice of Public Hearing

RESOLUTION NO. 21-241

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROSEVILLE APPROVING THE ISSUANCE BY THE CALIFORNIA PUBLIC FINANCE AUTHORITY OF MULTIFAMILY HOUSING REVENUE BONDS IN AN AGGREGATE PRINCIPAL AMOUNT NOT TO EXCEED $17,000,000 FOR THE PURPOSE OF FINANCING OR REFINANCING THE ACQUISITION AND CONSTRUCTION OF JUNCTION CROSSING APARTMENTS AND CERTAIN OTHER MATTERS RELATING THERETO

WHEREAS, Junction Station, LP or a partnership of which St. Anton Communities, LLC (the "Developer") or a related person to the Developer is the general partner, has requested that the California Public Finance Authority (the "Authority") adopt a plan of financing providing for the issuance of exempt facility bonds for a qualified residential rental project pursuant to Section 142(a)(7) of the Internal Revenue Code of 1986 (the "Code") in one or more series issued from time to time, including bonds issued to refund such exempt facility bonds in one or more series from time to time, and at no time to exceed $17,000,000 (the "Bonds") for the acquisition, construction, improvement and equipping of a multifamily rental housing project located at 120 Pacific Street, Roseville, California (the "Project"); and

WHEREAS, pursuant to Section 147(f) of the Code, the issuance of the Bonds by the Authority must be approved by the City of Roseville (the "City") because the Project is located within the territorial limits of the City; and

WHEREAS, the City Council of the City (the "City Council") is the elected legislative body of the City and is the applicable elected representative under Section 147(f) of the Code; and

WHEREAS, pursuant to Section 147(f) of the Code, the City Council has, following notice duly given, held a public hearing regarding the issuance of the Bonds, and now desires to approve the issuance of the Bonds by the Authority; and

WHEREAS, the City Council understands that its actions in holding this public hearing and in approving this Resolution do not obligate the City in any manner for payment of the principal, interest, fees or any other costs associated with the issuance of the Bonds, and said City Council expressly conditions its approval of this Resolution on that understanding.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of the City of Roseville as follows:

Section 1. The City Council hereby approves the issuance of the Bonds by the Authority for the purposes of financing the Project. It is the purpose and intent of the City Council that this Resolution constitute approval of the issuance of the Bonds by the Authority, for the purposes of (a) Section 147(f) of the Code by the applicable elected representative of the governmental unit having jurisdiction over the area in which the Project is located, in accordance with said Section 147(f) and (b) Section 12 of the CalPFA Joint Powers Agreement.

Section 2. The officers of the City Council are hereby authorized and directed, jointly and severally, to do any and all things and execute and deliver any and all documents, certificates and other instruments which they deem necessary or advisable in order to carry out, give effect to and comply with the terms and intent of this Resolution and the financing transaction approved hereby. Any actions heretofore taken by such officers are hereby ratified and approved.

Section 3. The City Council expressly conditions its approval of this Resolution on its understanding that the City shall have no obligation whatsoever to pay any principal, interest, fees or any other costs associated with the Authority's issuance of the Loan for the financing of the Project.

Section 4. This Resolution shall take effect from and after its passage and approval.

PASSED AND ADOPTED at a regular meeting of the City Council of the City of Roseville held on this____day of_____, 2021, by the following vote:

AYES:

NOES:

ABSENT:

_____
MAYOR

ATTEST:

_____
CLERK

NOTICE OF PUBLIC HEARING
REGARDING ISSUANCE OF
MULTIFAMILY HOUSING REVENUE BONDS FOR
JUNCTION CROSSING APARTMENTS

NOTICE IS HEREBY GIVEN that, at 6:00 p.m., or as soon thereafter as the matter can be heard, on Wednesday, June 2, 2021, at the City Council Chambers, 311 Vernon Street, Roseville, California, the City Council of the City of Roseville (the "City") will conduct a public hearing as required by Section 147(f) of the Internal Revenue Code of 1986 (the "Code"), at which it will hear and consider information concerning a proposed plan of financing providing for the issuance by the California Public Finance Authority of exempt facility bonds for a qualified residential rental project pursuant to Section 142(a)(7) of the Code in one or more series issued from time to time, including bonds issued to refund such exempt facility bonds in one or more series from time to time, and at no time to exceed $17,000,000 in outstanding aggregate principal amount, to finance or refinance the acquisition and construction of a multifamily rental housing project located at 120 Pacific Street, Roseville, California. The facilities are to be owned by Junction Station, LP (the "Borrower") or a partnership of which St. Anton Communities, LLC (the "Developer") or a related person to the Developer is the general partner (the "Project").

Those wishing to comment on the proposed financing or refinancing and the nature and location of the Project may either appear in person at the public hearing or submit written comments, which must be received by the City prior to the hearing. Written comments should be sent to City of Roseville at 311 Vernon Street, Roseville, California 95678, Attention: City Clerk.

CITY CLERK
CITY OF ROSEVILLE

Dated: May 21, 2021